

**RAMAPO INDIAN HILLS REGIONAL
HIGH SCHOOL DISTRICT**

**PROGRAM
OF
STUDIES
2018 - 2019**

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OAKLAND

WYCKOFF

NEW JERSEY

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MISSION STATEMENT

The mission of the Ramapo Indian Hills Regional High School District is:

- To establish and maintain educational programs that support effective teaching and meaningful learning.
- To provide a caring and nurturing environment that encourages all students to achieve the New Jersey Student Learning Standards at their maximum potential.
- To efficiently promote this mission within the resources available to the district.

FROM THE SUPERINTENDENT

The Ramapo Indian Hills Regional High School District is committed to offering you the highest quality educational programs.

We strongly encourage you to plan and choose your course of studies carefully, as it will provide a solid foundation for your future. Please use this publication as your basic planning guide.

Our counselors, teachers, and administrators are available to assist you in your choice of course offerings available for a successful year. We look forward to working together to assure that you receive the greatest benefit from our outstanding program.

Beverly MacKay, *Superintendent of Schools*

EDUCATIONAL GOALS

The ultimate goal of all education is to teach man to think rationally and critically, to enjoy the process of learning, and to acquire the skills necessary for a lifetime of continuous learning and adaptation to change. This Board is committed to the maximum development of every individual, regardless of race, creed, color, national origin, ancestry, age, marital status, affectional or sexual orientation, gender, religion, disability, or socioeconomic status. The Board believes in the dignity, worth, and potentials of each student, and recognizes that the student is the focal point of education; that each student has his/her capacity for learning, and unique set of needs. The Board must provide an educational system consistent with the desires of the citizens of the District, as determined by a goal-setting system or revision every five years as required by Chapter 212 of the Public Education Act of 1975.

1. In a democracy, it is essential that the schools provide each student with an understanding of the basic elements and values of our culture and our national heritage, as well as an understanding of cultures and nations other than our own, and an awareness of the interdependence of nation-states without loss of recognition of our own national interest or values. In addition, education for citizenship in a democracy must provide each student with an understanding of the citizen's Constitutional and human rights, privileges, and responsibilities, and an understanding of the concept of adherence to law together with the need for constructive citizen participation in the decision making process.
2. The Board is committed to the belief that each student should be provided with those skills necessary for his/her effective functioning in our society, and that each student should be encouraged to achieve his/her potential to his/her maximum desire and ability, intellectually, socially, and emotionally.
3. Mental and physical health are interrelated, and all activities must concern themselves with the well being of the students so that they may enjoy satisfying, responsible, and productive roles in life. This Board is dedicated to providing the finest possible education for each student. All goals set forth here are important and, in many cases, interdependent. The educational program will stress the achievement of goals determined by the citizens, staff, and students of this District.

THE PUBLIC SCHOOLS IN THE RAMAPO INDIAN HILLS REGIONAL HIGH SCHOOL DISTRICT SHOULD HELP EVERY STUDENT IN THE DISTRICT TO:

Develop skills in reading, writing, speaking, listening, and quantitative thinking
Learn how to examine and use information
Gain a general education
Learn how to be a good citizen
Develop good character and self-respect
Develop pride in work and a feeling of self-worth
Develop a desire for learning now and in the future
Learn to respect and get along with people with whom we work and live
Develop skills to enter a field of work
Learn about and try to understand the changes that take place in the world
Gain information needed to make job selections
Understand and practice democratic ideas and ideals
Appreciate culture and beauty in the world
Learn how to be a good manager of money, property, and resources

Practice and understand the ideas of health and safety
Learn how to respect and get along with people who think, dress, and act differently
Understand and practice the skills of family living
Learn to constructively use leisure time.

POLICY

School System Education Process Goals

The Ramapo Indian Hills Regional High School District shall provide:

- Instruction, which bears a meaningful relationship to the present and future needs and/or interests of pupils.
- Significant opportunities, consistent with the age of the pupil, for helping to determine the nature of the educational experiences of the pupil.
- Specialized and individualized kinds of educational experiences to meet the needs of each pupil.
- Opportunities for teaching staff and pupils to make recommendations concerning the operation of the schools.
- Comprehensive guidance facilities and services for each pupil.
- An environment in which any competition among pupils is positive.
- Resources for education, used with maximum efficiency.
- Teaching staff members of high quality.
- Diverse forms of constructive cooperation with parents and community groups.

REQUIREMENTS FOR GRADUATION

The Ramapo Indian Hills Regional High School Board of Education revised and adopted Board Policy No. 5460, High School Graduation, which includes the credit requirements for graduation.

The Ramapo Indian Hills Regional High School District Board of Education will recognize the successful completion of the secondary school instructional program by the award of a State-endorsed diploma certifying the student has met all State and local requirements for high school graduation. The Board will annually certify to the Executive County Superintendent each student who has been awarded a diploma has met the requirements for graduation.

A graduating student must have earned the appropriate number of credits, as stipulated below, in courses designed to meet all of the New Jersey Student Learning Standards, including but not limited to the following credits:

1. 20 credits in language arts literacy aligned to grade nine through twelve standards;
2. 15 credits in mathematics, including Algebra I and Geometry (or the content equivalent), and including a third year of mathematics that builds on the concepts and skills of algebra and geometry and that prepares pupils for college and the 21st century.
3. 15 credits in social studies, including 10 credits in United States History, 5 credits in world history, and the integration of civics, economics, geography, and global content in all course offerings;
4. A minimum of 17 credits in science including biology, chemistry, and one additional physical science course;
5. 5 credits in health, safety, and physical education during each year of enrollment, distributed as 3.75 credits in physical education and 1.25 credits in health;
6. 5 credits in visual and performing arts;

7. 10 credits in world languages or student demonstration of proficiency as set forth in New Jersey Administrative Code;
8. 2.5 credits in financial, economic, business, and entrepreneurial literacy;
9. Technological literacy, consistent with the New Jersey Student Learning Standards, integrated throughout the curriculum;
10. 5 credits in 21st century life and careers or career-technical education; and
11. Electives as determined by the high school program sufficient to total a minimum of 135 credits.

Each student is required to be scheduled for a minimum number of credits as indicated in the chart below:

Class of 2016 (and thereafter)			
Grade 9	Grade 10	Grade 11	Grade 12
35	35	35	30
Credits required to graduate: 135			

Credit means the award for the equivalent of a class period of instruction that meets for a minimum of forty minutes, one time per week during the school year or as approved through New Jersey Administrative Code.

In addition to the credit requirements, students must meet the [NJ High School Graduation Assessment Requirements](http://www.state.nj.us/education/assessment/parents/GradReq.pdf) for the graduating class, as established by the New Jersey State Department of Education (<http://www.state.nj.us/education/assessment/parents/GradReq.pdf>).

[Click here](#) to view the entire RIH High School Graduation Policy (RIH Policy #5460). The District has also posted a [graduation checklist](#) to help with course selection and credit requirements (www.rih.org - Academics – Program of Studies – Graduation Checklist).

New Work for Credit – The Ramapo Indian Hills Regional High School District recognizes that students may look to take courses over the summer to meet the graduation credit requirements.

- The District will only consider courses not offered through our Program of Study for inclusion on a student's transcript.
- Any courses taken outside of the Ramapo Indian Hills Regional High School District (virtual or through a third party provider) must be pre-approved by the Department Supervisor and Building Principal prior to registration. All requests for pre-approval must be submitted to the supervisor prior to the last day of school.
- Incoming freshmen may not take summer school classes for new credit.
- New work for credit courses given by an accredited high school or provider can be used for transcript purposes and to meet graduation requirements. Grades in these courses will not be included in GPA calculations.
- A maximum of 5 credits (one 5-credit course or two 2.5-credit courses) may be approved each summer.
- All courses taken over the summer will have a summer school designation on the student's transcript.
- Students are still required to maintain the minimum number of credits in their schedule during the academic school year, as indicted under High School Graduation Requirements.
- All tuition and fees for summer courses are the responsibility of the family.

Option II - The minimum 135 credit requirement set forth above may be met, in part, through alternative program completion. This is Option II. Additional information can be found in the [Option II Application Packet](#).

Graduation credit can be obtained through an Option II program – an alternative to traditional high school courses, which involves in-depth experiences. Option II will provide students with enriching, stimulating, and meaningful learning experiences that will enhance student achievement of the New Jersey Student Learning Standards. Students applying for Option II credit must have met the high school testing graduation requirement for their graduating class.

Option II may include, but is not limited to, one or more of the following:

Interdisciplinary or theme-based programs, independent study, magnet programs, student exchange programs, distance learning, internships, community service, extracurricular programs, and/or other structured learning experiences. In addition, New Jersey Administrative Code permits district Boards of Education to recognize successful completion of programs from an accredited organization, that assures achievement of the knowledge and skills delineated in the New Jersey Student Learning Standards or includes learning that builds on and goes beyond the standards. Implementation of this option is referenced through regulation.

Suggested courses for satisfying graduation requirements under Visual and Performing Arts and 21st Century Life and Careers (Career Education, & Consumer, Family, and Life Skills) are:

Visual and Performing Arts

Acting Lab
Advanced Studio Art
AP Studio Art
Chamber Choir
Choreography
Concert Choir
Digital Design I, II
Digital Illustration & Animation I, II
Digital Photography I, II
Drama
Drawing I, II
Music Theory
Musical Theatre
Painting I, II
Pop & Rock: Intro to Music
Script Writing
Sculpture & Ceramics I, II
Stage Movement/Dance
String Orchestra
Studio Art
Symphonic Band
Theatre Production
Wind Ensemble

21st Century Life and Careers – Career Education, & Consumer, Family, and Life Skills

Accounting 1, 2
Application Development and I-Apps.
Advanced Mathematics Applications
Applied Technology & Design
Architecture & Design 1, 2
Architectural Modeling
At Home With Technology
Audio & Film Editing
Bergen Technical Ed Program (Paramus)
Business Continuity & Management
Business Principles & Management
CAD - Computer Aided Design
Child Development
Communications
Computer Anatomy
Computer Science
Computer Science for Engineers
Computer Science Principles
Contemporary Business Technology
Contemporary Foods
Culinary Gourmet
Contemporary Issues in Science
Digital Electronics
Digital Media
Engineering
Engineering, Math, & Computer Applications
Entrepreneurship
Fashion & Technology 1, 2, 3, 4
Forensic Science
Global Economy
Global Foods
Horticulture
Introduction to Engineering
Journalism
Marketing
Medical Issues
Public Speaking
Real World Cooking
Robotics
Science Research (formerly named Research Projects)
Science Seminar
STEM Challenge Lab
Structured Learning Experience (S.L.E.)
Transportation & Energy Technology
TV Studio Production
Web Design
Wood Processing Technology 1, 2
Writer's Workshop

ATTENDANCE POLICY

Awarding of credit shall be dependent upon a student not accruing more than ten (10) unexcused absences for each full year course or a proportionate number of days for courses less than a full year. The total number of unexcused absences shall not exceed ten (10). A doctor's note to excuse absences from the ten (10) absence rule must be submitted within three (3) days of the return to school. All absences for religious holidays, as approved annually by the commissioner under the authority of N.J.S.A. 18A:36-14-16, shall be exempt from these provisions. The [RIH Attendance Policy](#) and [Attendance Regulation](#) can be found on the District's Website (Policy #5200).

ADMISSION

Affidavit Pupils: Admission of students not domiciled with their parents

There is a process for allowing students in this category to petition for admission. Admission may be granted on a tuition or non-tuition basis in accordance with Board policy and State law. For affidavit and other Attendance Policy information, contact Mr. Frank Ceurvels, Business Administrator, at the Board of Education Office - 201-416-8100 ext. 3803.

POLICY ON PUPIL RECORDS

In accordance with the Policy #8330 of the Board of Education, and in conformance with the requirements of State and Federal legislation, the following information regarding the maintenance of pupil records is presented.

1. Mandated pupil records shall be preserved in perpetuity by the New Jersey public school last attended. Mandated records include the following:

- a. Personal data which identifies each pupil enrolled in the district, including name, address, date of birth, name of parents and/or guardians, citizenship, and sex; but may not include data which indicates religious or political affiliation of the pupil or parent (unless requested by the parent or adult student) or the labeling of the pupil as illegitimate.
- b. Record of daily attendance.
- c. Descriptions of pupil progress, including courses taken and evaluations made. Grade level (or other program) assignment must also be recorded.
- d. Health history and status records compiled in accordance with State regulations including results of any physical examinations given by qualified employees.
- e. All other records required to be kept by State regulations including records of children referred to the Child Study Team.

2. Permitted pupil records are also preserved as determined by local Board of Education by resolution adopted at a public meeting. Upon high school graduation or permanent departure from the school district, pupils shall have the right to remove any material from the permitted records:

- a. Observations and ratings of individual pupils by professional staff members acting within their sphere of competency.
- b. Samples of pupil work.
- c. Information obtained from professionally acceptable standard instruments of measurements such as: interest inventories, achievement tests, and standard intelligence tests.
- d. Authenticated information provided by a parent or adult pupil concerning achievements and other school activities, which the pupil wants to make a part of the record.
- e. Verified reports of serious or recurrent behavior patterns.
- f. Extracurricular activities and achievements.

In accordance with the Board of Education Policy, records are periodically reviewed by the person(s) designated responsible for their maintenance in order to evaluate the educational relevance of the material contained therein. Information that is detrimental to the pupil and is no longer descriptive of the pupil or educational situation is deleted from the record and destroyed at the time of graduation.

Upon graduation or permanent departure of a pupil, a transcript will be provided for each student. In addition, adult pupils or parents can arrange to review and obtain the entire contents of pupil records in accordance with Board of Education Policy #8330. An appointment for this purpose can be scheduled with the Guidance Department.

GROUPING/CRITERIA

AP–Advanced Placement – college level courses that use the College Board Advanced Placement Curriculum leading to the AP exam.

H–Honors – represents the highest level of academic challenge and expectation in quality of performance and considerable independent work. In most cases, Honors courses follow a sequence of courses leading to a final Honors course using the Advanced Placement curriculum.

CPE–College Preparatory Enhanced – courses provide greater academic rigor than that of the college prep level classes by offering enriched activities/curriculum for additional academic challenge.

CP–College Preparatory – courses meet the college admission requirement for core standard in a particular subject area.

Assignment

Students and parents will be kept informed of the particular group to which a student is assigned. For those courses in which grouping is practiced, the student's schedule will indicate the subject selected and the grouping assigned (Example: English 1 H, English 1 CPE, English 1 CP).

GRADE POINT AVERAGE (GPA)

Grade Point Average (GPA) calculations can be found on each report card at the conclusion of the marking period. Each calculation is based on the number of credits earned for courses in which the student receives a current marking period grade or final grade/course level (AP, H, CPE, CP) according to the Chart of Weighting Equivalents. For the graduating Class of 2018 and 2019, grades in Physical Education are not included in the GPA calculation; however, the Health grade each year does calculate. Beginning with the Class of 2020, Health and Physical Education grades will be used in the GPA calculation. Additionally, courses from other districts will carry weight no higher than the highest level of the course offered in the Ramapo Indian Hills District. Students must be enrolled in at least four consecutive semesters beginning no later than spring of the sophomore year to be considered for valedictorian and salutatorian.

COURSE WEIGHTING

Grade	AP	H	CPE/CP
A	5.0	4.5	4.0
A-	4.7	4.2	3.7
B+	4.3	3.8	3.3
B	4.0	3.5	3.0
B-	3.7	3.2	2.7
C+	3.3	2.8	2.3
C	3.0	2.5	2.0
C-	2.7	2.2	1.7
D+	2.3	1.8	1.3
D	2.0	1.5	1.0
D-	1.7	1.2	0.7
F	0.0	0.0	0.0

The GPA Calculation Worksheet is found under Academics > Program of Study on the District's website.

COLLEGE ADMISSIONS

Admission requirements of different colleges vary greatly. The Guidance Department of each school maintains a library of catalogues from many of the colleges and universities in the United States. In addition, the district subscribes to Naviance, which is a college and career exploration tool. These resources are accessible to students who need information regarding the specific entrance requirements of schools. Guidance counselors who are familiar with current college admissions information are available to confer with students about future educational planning. College bound students are encouraged to select, as early as possible, the schools in which they are interested and to work closely with their guidance counselor throughout the procedure of applying for and securing admissions.

Exams are typically taken as follows:

- *Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test – fall of sophomore and junior year.

- *College Boards-SAT Reasoning Test and/or ACT – spring of junior year and/or fall of senior year.

- *College Boards-SAT Subject Tests – after completion of highest level of high school study in a given subject discipline, upon recommendation of teacher and counselor, not later than fall or winter of senior year.

- *PSAT/SAT/ACT information is available in the Guidance Office. See your guidance counselor for more information about PSAT/SAT/ACT prep courses.

EXCEPTIONAL STUDENTS

There are four types of services available to exceptional students:

- A. Cognitive – intellectual
- B. Aesthetic – intellectual
- C. Psychomotor
- D. Leadership and Social Skills

These services are offered to students through the formal curriculum and co-curricular activities.

The *Program of Studies* lists a wide variety of formal courses meeting the needs of exceptional students. Clubs, competitions, organized sports, and academic activities also provide learning opportunities for our exceptional students. Students with leadership skills may elect a role in school government or club governance. For additional information, please refer to the School Handbook.

LIBRARY/MEDIA SERVICES

The Library Media Center provides resources to support and enrich all areas of the curriculum, from academic research to materials that reflect the personal interests of students. The collection includes an extensive print library, a wide variety of magazines, and local and national newspapers. Through the Library Media Center Schoology Group, students have 24/7 access to over 50 online databases. These databases include academic journals and literary, scientific, and historical materials. In support of our 1-to-1 Initiative, the Library Media Center also provides students with access to printers and a copier.

INTERVENTION AND REFERRAL SERVICE

Each school has an Intervention and Referral Service Committee to which teachers can refer students who are having academic or social difficulties. The committees will support and guide classroom teachers and coordinate, plan and provide intervention and referral services both through the school and available community-based agencies. They will also actively involve parents and guardians in developing and implementing a plan to assist students.

GUIDANCE & STUDENT PERSONNEL SERVICES

The basic, most important function of guidance is counseling; that person-to-person interaction in which one person, the counselor, endeavors to help another person, the student, become more effective in dealing with both school and social life. Guidance takes place mainly in the counselor's office and matters are brought to the attention of the counselor by the student, teacher, or parent. The counselor helps the student decide how to handle a particular problem through self-evaluation and decision making techniques. Learning how to go about reaching solutions in general, while actively engaged in finding a specific solution, is the goal of a student in quest of maturity. The counselor is the person designated to be available, to be "aware and there" throughout this quest.

Students are, therefore, encouraged to come to the Guidance Office at any time to take advantage of the many services and counseling opportunities available to them during their years at Ramapo Indian Hills. These services and counseling opportunities include help with personal problems, academic concerns, post high school plans, and career development. Helping students cope with their changing physical, social, and emotional development is a personal counseling service. Counseling is a helping relationship and, as such, is a service for assistance with long-standing problems or crisis situations. Academic problems are recognized and addressed through the services of the counselor. Teacher and parent conferences analyzing academic performance attitudes are very important in helping the student overcome academic difficulties. Such conferences can be initiated by any of the four key parties: parent-student-teacher-counselor. The development of student

awareness of the full range of educational opportunities after high school is achieved through individual and group counseling sessions, student and parent orientation meetings and bulletins, daily announcements, visitations by school, college and armed services representatives, and access to Naviance, our college tracking service.

A particularly important part of the students' overall plan for the future is the selection of high school subjects best suited to their needs and objectives. The student meets with the counselor throughout the year. One of these meetings is for the purpose of planning the student's program of studies.

The wide variety of subject offerings presented in this handbook should enable each student to select courses that will be a part of a well-balanced educational experience and enable the student to develop some of the understandings, skills, and appreciations necessary for the future. In the selection of the high school program, the student should consider the occupational and educational requirements of post high school plans. In addition, course experiences should serve as avenues for exploration and development of new interests. Course selections are part of a team effort involving student, parent, teacher, and counselor. Courses should be chosen only after careful consideration. The classroom teacher will provide general information about course requirements in order to provide direction for each student.

The Guidance Department offers services to the students in self-appraisal, as well as self-awareness and presents an opportunity through Naviance, our career and college program. The Naviance system offers an extensive amount of college and career counseling.

This program, plus individual and group counseling sessions, career seminars and speakers, and utilization of aptitude tests and interest inventories help the student gain insight into aptitude, interests, and attitudes and aid in developing realistic career goals. Students will develop an awareness of available career guidance materials through the Naviance program.

The school district has addressed itself to the development of career awareness through teacher-student classroom units and the counseling and information-dissemination activities of the Guidance Department. District curriculum proficiencies in career exploration and development have been established and are as follows:

Students will display an awareness of their interests and abilities by reviewing the results of aptitude tests and interest inventories with their counselors.

Students will be able to relate their interests and abilities to appropriate career fields and learn about such career fields through classroom and guidance activities.

Students will develop an awareness of career resources available through the Guidance Office.

Students will select subjects for each school year on the basis of their career interests.

Students will be given the opportunity to attend Career-Speaker Programs and shall be encouraged to do so.

SCHEDULING

Each year, students begin to work with their guidance counselors to make course selections for the following school year. The process includes input from the student, parent, teachers, and the guidance counselor. Student placement in Honors or Advanced Placement courses is based upon a number of factors including prerequisites, teacher recommendations, and classroom performance. Later in the year, parents and students will have access to an online "course selection" verification sheet to confirm the students' choices. On the basis of the course requests in March, the

Superintendent and the Board of Education make decisions on budgeting and staffing needs for the following year in preparing to develop the master schedule. Courses listed in the *Program of Studies* will run based upon student subscription, staff availability, and school administration discretion. Any changes or new selection of courses will not be guaranteed and will be contingent on the number of available sections and the space allowed in each section. Prior to the end of the 2017-2018 school year, preliminary schedules will be sent home that will include the levels of courses. After the preliminary schedules are sent to students, changes to schedules will be accepted for clerical errors, graduation requirements, summer school attendance, and course availability with electives.

The master schedule will be finalized on **August 17, 2018** and final student schedules, including courses, teachers, and room numbers, will be mailed home in late August. Students may make schedule changes of an educationally sound nature, including dropping and/or adding courses, after the second day of classes until **September 21, 2018**.

From **September 24 to October 19, 2018**, a student may drop a course, but NOT ADD a course, and the dropped course will not appear on the transcript.

Effective **October 22, 2018**, all courses in which a student is enrolled must be completed regardless of grade or progress in the course.

The add/drop period for Semester 2 English courses will take place during the first week (5 school days) of the third marking period, and is contingent on class size and availability. The English Supervisor will grant final approval for add / drop for the Semester 2 English courses during this time period. Please note that all seniors must successfully complete 5 credits of English to be eligible for graduation, and students who make changes to their schedule for Semester 2 must inform colleges and universities of those changes as part of the application / admissions process.

COURSE RECOMMENDATION OVERRIDE PROCESS

If a student is in disagreement with the course level recommendation made by their classroom teacher for the upcoming school year, then a student may request an override form from their counselor. The override form requires both a student and parent signature. Stipulated on the override form is that the student is waiving “the privilege of changing levels or courses in this subject area at any time” during the academic year. It is recommended that careful consideration be made by the student when contemplating overriding into a higher level than what was recommended by their classroom teacher. An override form does not preclude a student from taking a prerequisite course. If a situation should develop with a course being closed due to limitations on class size, then scheduling preference will be given to students recommended for the class(es).

NCAA PARTICIPATION

If you are considering participation in a NCAA sanctioned sport in college, please see your guidance counselor to discuss eligibility requirements and log onto NCAA.org.

SUMMER SCHOOL CREDITS

If a student fails a subject during the school year, he/she may attend an accredited summer school to earn remedial credits for that subject. The student must obtain subject supervisor and counselor approval prior to enrollment in the summer school program.

FAMILY LIFE EDUCATION

The Ramapo Indian Hills High School District conducts a Family Life Education program in compliance with the New Jersey Administrative Code on Family Life Education. It will be taught as part of the Health program offered to students in grades nine, eleven, and twelve.

Notification to Parents and Guardians – With respect to parental notification, Section b (1) of the New Jersey Administrative Code states:

The parents and guardians of pupils enrolled in the district shall receive annually (1) an outline of the curriculum and (2) a list of instructional materials for the grade of their child including notification about how to receive a copy of the curriculum. The district shall make available for review in each school the complete curriculum and all instructional materials prior to use in the classroom. Upon request of parents and guardians, the material shall be made available for review.

Provision for Excusing Student – Section (i) of the Family Life Code states the following:

Any pupil whose parent or guardian presents to the school principal a signed statement that any part of the instruction in family life education is in conflict with his/her conscience, or sincerely held moral or religious beliefs, shall be excused from that portion of the course where such instruction is being given and no penalties as to credit or graduation shall result there from. (N.J.S.A. 18-A 35-4.6 et seq.). Parents or guardians who wish to excuse their child(ren) from any part of the family life education program should present a signed statement to their building principal requesting that their child(ren) be excused. A copy of the curriculum and instructional materials are available for review at your school. Contact the Supervisor of the Health and Physical Education Department.

SPECIAL EDUCATION

The Department of Special Education is an integral part of the academic high school program and provides services to students with disabilities under New Jersey Administrative Code Title 6A, Chapter 14. Each of the high schools has a Child Study Team and a building Special Education Supervisor to ensure that students with disabilities receive a Free and Appropriate Public Education. The District Supervisor of Special Education is located in the central office and facilitates the implementation of NJAC 6A:14 in both buildings, and coordinates the special education programs and services for the district.

Child Study Team

The Child Study Team participates in the identification and determination of students eligible for special education and related services. This includes psychological assessments, educational assessments, and social work services. In addition, the Child Study Team provides case management services to students who are classified and are placed in special education programs or require special accommodations to access the general education curriculum. In addition, the Child Study Team provides transition services for students, including coordinating with community agencies to ensure linkages to post secondary adult services upon graduation.

Programs and Services

The placement of students in appropriate settings within the least restrictive environment is an integral part of the Individuals with Disabilities Education Act (IDEA).

The Ramapo Indian Hills High School District offers a full continuum of educational services in the Least Restrictive Environment to students who have been identified as “Eligible” for Special Education and Related Services. These program options include In-class Supplemental Instruction,

Resource Center Pull Out Subject Replacement, In-Class Assistance, and Self Contained Transition Programs. Resources classes reflect the curriculum of the general education classes.

In addition the following Special Education classes are offered:

Foundations of Study Skills
Applied Study Skills

Study and Organization
Reading 1 and 2

Sage Day Program

New Horizons:

Daily Living Skills
Personal and Social Skills
Career Exploration
Careers and Adult Living
Career Exploration Internship

In the case of students who can not be educated in their home school, the school district refers the student to a State approved placement which is outside of the district and can meet the student's needs. The district has a self-contained program in each high school. This program is for students who have mild to moderately cognitive impairment.

Transition and New Horizons Programs

The Indian Hills Transition program is a self-contained program for students with mild to moderate cognitive impairment and is located at Indian Hills High School. This program is for students in grades 9 - 12 who require a Life-Skills/Pre-Vocational curriculum in addition to the daily living and academic requirements for high school graduation. Students who complete this 4-year program may graduate or receive a certificate of attendance and move into the district's New Horizon Program, which is located at Ramapo High School.

The Ramapo New Horizons Program offers young adults, ages 18-21 with disabilities, a transition-to-adulthood program that includes community based instruction, life coaching, and a structured learning experience. This program has a Structured Learning Experience Coordinator and is for students who have attended the District's Transition Program, or a similar program, and require further adult living and employment readiness skills prior to graduation. The program provides Community Based Instruction in functional academics and life skills. Students attend Ramapo High School in the morning. After receiving a modified academic day, students receive supported employment through job coaching in the afternoon. The goal of this program is to develop independent adult living skills and employment readiness to prepare them for a post-secondary life.

HOME INSTRUCTION – 6A:16-10.1

“To request home instruction due to a temporary or chronic health condition, the parent shall submit a request to the school district that includes a written documentation from the student's physician documenting the projected need for confinement at the student's residence or other treatment setting for 10 consecutive school days or 15 cumulative school days or more during the school year.” (6A:16-10.1) Additional information may be obtained by contacting Mr. Michael Marano, District Director of Student Personnel Services, 131 Yawpo Avenue, Oakland, NJ 07436, (201) 416-8100, ext. 3827.

STUDENT ASSISTANCE PROGRAM

The Ramapo Indian Hills School District has established a program of information, prevention, counseling and referral. The program is designed to create awareness among students with regard to drug and alcohol dangers and other detriments that lead to academic and personal decline. The Student Assistance Counselor works closely with students, staff, parents and the community in a unified effort to decrease and eventually eliminate these problems. In addition, the program includes a peer leadership program and various group activities to permit self-esteem growth and awareness.

SPECIAL STATE MANDATES

The Ramapo Indian Hills High School District does not discriminate on the basis of sex in the education programs or activities, which it operates, and it is required by Title IX of the Educational Amendments of 1972 not to discriminate in such a manner. **Title IX and State Affirmative Action Officer.** The district official responsible for the coordination of activities relating to compliance with Title IX is Mr. Michael Marano, District Director of Student Personnel Services, 131 Yawpo Avenue, Oakland, NJ 07436, (201) 337-0100, ext. 3827. This official will provide information, including complaint procedures, to any student who feels that his or her rights, under Title IX and State Affirmative Action Law, may have been violated.

504 Plans

Mr. Michael Marano, District Director of Student Personnel Services, coordinates the district policy and regulations concerning the Federal Rehabilitation Act of 1973, Section 504. Contact Mr. Marano at 131 Yawpo Avenue, Oakland, NJ 07436, (201)-337-0100, ext. 3827, for additional information.

American Disability Act

For information contact Beverly MacKay, Superintendent of Schools - 201-416-8100 ext. 3801, 131 Yawpo Avenue, Oakland, NJ 07436

The Ramapo Indian Hills High School District is committed to offering an educational program based on Equal Education Opportunity. Male and female students are strongly encouraged to carefully consider participation in any elective course in the respective disciplines.

DUAL ENROLLMENT

The Ramapo Indian Hills High School District has partnered with Bergen Community College and Fairleigh Dickinson University to offer students the opportunity to earn college credits in approved Dual Enrollment courses. In addition, the District has initiated a partnership with Syracuse University and currently offers Dual Enrollment through the Syracuse University Project Advance program. The following is a listing of courses that are anticipated for Dual Enrollment during the 2018-2019 school year:

Dual Enrollment through Bergen Community College:

Drawing II (ART-124), Digital Design II (ART-122), Digital Photography II (ART-184), Digital Illustration & Animation II (ART-189), Culinary Gourmet/Real World Cooking (HRM-103), Child Development (EDU-120), Computer Science (CIS-165), French 4H (LAN-201), Italian 4H (LAN-221), Spanish 4H (LAN-231), Environmental Science (BIO-108), and Horticulture (HRT-102)

Dual Enrollment through Fairleigh Dickinson University:

US History II FDU

Dual Enrollment through Syracuse University Project Advance:

Introduction to Creative Writing (WRT-114), Gender and Literary Texts (ETS-192), and Science Research 1 (URP-150)

Syracuse University Project Advance is a cooperative program that has been initiated between Syracuse University and Ramapo Indian Hills Regional High School District that allows high school students to enroll in Syracuse University courses. Teachers who are also adjunct SU instructors teach these classes in the high school, and they follow the curriculum and guidelines established by the University. The Project Advance program enables high school students to gauge their ability to do college work prior to full-time college study. Upon successful completion of a Syracuse University course, students are awarded SU transcripts that record credits earned. These credits are transferable to hundreds of colleges and universities nationwide. **PLEASE NOTE THAT THERE IS A PER-CREDIT TUITION CHARGE ASSOCIATED WITH SUPA COURSES**, although this charge is significantly discounted and financial aid is available to eligible students. There is an array of courses designed for those students who are capable of doing college-level work while still in high school. Students who take the course, but not for college credit, will have their transcripts reflect a non-SUPA course title.

Please reference the [Dual Enrollment](#) webpage for additional information regarding the District's Dual Enrollment partnerships.

PATHWAYS

TO SUCCESS

WHAT IS PATHWAYS...

The Ramapo Indian Hills Pathways Program will allow students to pursue themed electives providing a rich background in a particular area of study. This flexible approach to scheduling will create opportunities for students to complete a particular “Pathway” in one of seven areas. This program, while completely optional, will give interested students the chance to demonstrate commitment to an area of study in greater depth than the traditional program. The Pathways Program is an exciting avenue for students to pursue an area of interest while, at the same time, take elective offerings in various departments.

THEMED ELECTIVES FOR COLLEGE AND CAREER READINESS...

- Provide focus in a specific area of study
- Allow for a variety of electives while providing a themed approach
- Demonstrate a commitment to an interest area
- Exhibit quality of depth of knowledge in selected Pathway

WHAT THEMES ARE A PART OF PATHWAYS...

- School of Art
- School of Applied Consumer Sciences
- School of Business and Computer Science
- School of Communications (Ramapo)
- School of English
- School of Information Technology and Cyber Security (Indian Hills)
- School of Music
- School of Sports Information
- School of Theatre

WHAT IS REQUIRED IN PATHWAYS...

- Complete a minimum of four (4) courses within the focus area.
- Complete a minimum of one (1) additional course, either in the focus Pathway or one of the Interdisciplinary courses.
- Complete a minimum of twenty (20) credits, including the four (4) Pathways and one (1) Interdisciplinary / Pathways course.
- Pathways may include a required course/experience.
- Senior Capstone Projects can be developed by individual students through the District's Option II Program.
- More than five (5) elective courses may need to be taken if the credits do not equal twenty (20) or more.
- Students should notify their Guidance Counselor if they are interested in pursuing a Pathway.
- Upon completion of a Pathway, the student's college application packet will include a letter that describes the Pathways Program, the name of the completed pathway (ex. School of Sports Information), and the specific course titles that were taken to meet the Pathway's requirements.

*Required Course

PATHWAY THEMES and COURSES

ART	Credits	BUSINESS / COMPUTER SCIENCE	Credits
Advanced Studio Art	5	Accounting 1	5
AP Art 2D	10	Accounting 2	5
AP Art 3D	10	AP Computer Science A	5
AP Art Drawing	10	AP Computer Science Principles	5
Digital Design I (formerly Graphic Design I)	2.5	Computer Science	5
Digital Design II (formerly Graphic Design II)	2.5	AP Economics	5
Digital Illustration & Animation I	2.5	Economics	5
Digital Illustration & Animation II	2.5	AP Statistics	5
Digital Photography I	2.5	Application Development / I-Apps.	2.5
Digital Photograph II	2.5	Business Continuity & Management	2.5
Drawing I	2.5	Business Principles & Management	5
Drawing II	2.5	Computer Anatomy	2.5
Painting I	2.5	Contemporary Business Technology	2.5
Painting II	2.5	Digital Media	2.5
Sculpture & Ceramics I	2.5	Entrepreneurship	2.5
Sculpture & Ceramics II	2.5	Marketing	5
Senior Capstone Project (Option II)	Up to 5	Multimedia (available only thru 2016-17)	2.5
APPLIED CONSUMER SCIENCES	Credits	Sports and Entertainment Marketing	2.5
Applied Technology & Design	2.5	Technology Lab (available only thru 2016-17)	2.5
At Home with Technology	2.5	Senior Capstone Project (Option II)	Up to 5
Architecture and Design I	2.5	ENGLISH	Credits
Architecture and Design II	2.5	AP English 4	5
Architecture Modeling	2.5	Communications	2.5
Bergen Technical Ed. (Paramus)	15	Drama	2.5
Child Development	5	Dystopian Literature	2.5
Contemporary Business Technology	2.5	English Seminar	2.5
Contemporary Foods	2.5	Film as Literature	2.5
Computer Aided Design (CAD)	2.5	Gender and Literacy Texts	2.5
Fashion & Technology 1, 2, 3, 4	2.5	Humanities: Heroes, Heroines, Nature, and Conflict	2.5
Global Foods	2.5	Journalism	2.5
Horticulture	5	Myth and Culture	2.5
Honors Engineering	5	Public Speaking	2.5
Intro to Engineering	2.5	Sports & Literature	2.5
Power and Energy (available only thru 2016-17)	2.5	The Imaginative World of Science Fiction	2.5
Real World Cooking	2.5	Writing Culture: Intro to Creative Nonfiction	2.5
Robotics	2.5	Writer's Workshop	2.5
Structured Learning Exp. (S.L.E.)	10	Senior Capstone Project (Option II)	Up to 5
The Culinary Gourmet	2.5		
Transportation & Energy (formerly Power & Energy)	2.5		
Wood Processing 1	2.5		
Wood Processing 2	2.5		

PATHWAY THEMES and COURSES (continued)

12/21/17

INTERDISCIPLINARY ELECTIVES

Course Name	Credits		Course Name	Credits
Applied Technology and Design	2.5		Current Events: Investigating Modern Media	2.5
At Home with Technology	2.5		Humanities	2.5
Computer Aided Design (CAD)	2.5		Journalism	2.5
Architecture and Design 1, 2	2.5		Writer's Workshop	2.5
Architectural Modeling	2.5		Communications	2.5
Intro to Engineering	2.5		Public Speaking	2.5
Honors Engineering	5		Script Writing	2.5
Power and Energy (available only thru 2016-17)	2.5		Audio and Film Editing	5
Robotics	2.5		Drama	2.5
Transportation and Energy (formerly Power & Energy)	2.5		State Movement and Dance	2.5
Wood Processing 1, 2	2.5		Theatre Production	2.5
Bergen Technical Education	15		Anthropology	5
Structured Learning Experience (S.L.E.)	10		Economics	5
Digital Design I, II (formerly Graphic Design I, II)	2.5		AP Economics	5
Digital Illustration and Animation I, II	2.5		Geography	5
Digital Photography I, II	2.5		Law and Human Rights	5
Drawing I, II	2.5		AP Modern European History	5
Graphic Design I (available only thru 2015-16)	2.5		Psychology	5
Graphic Design II (available only thru 2016-17)	2.5		AP Psychology	5
Painting I, II	2.5		Sociology	5
Sculpture & Ceramics I, II	2.5		Your World: Community Problem Solving	2.5
Advanced Studio Art	5		Chamber Choir	2.5 / 5
AP Studio Art	10		Concert Choir	2.5 / 5
Child Development	5		Honors Choir	5
Fashion and Technology 1, 2, 3, 4	2.5		Symphonic Band	2.5 / 5
Contemporary Foods	2.5		Honors Band	5
Global Foods	2.5		Wind Ensemble	2.5 / 5
The Culinary Gourmet	2.5		String Orchestra	2.5 / 5
Real World Cooking	2.5		Honors String Orchestra	5
Accounting 1, 2	5		Music Theory	5
Application Development / I-App.	2.5		AP Music Theory	5
Business Continuity and Management	2.5		Pop & Rock: Intro to Music	5
Business Principles and Management	5		Entertainment and Science	2.5
Computer Anatomy	2.5		Horticulture	5
AP Computer Science	5		Marine Systems / Oceanography	5
Honors Computer Science	5		Honors Science Seminar	2.5
AP Computer Science Principles	5		STEM Challenge Lab	2.5
Contemporary Business Technology	2.5			
Digital Media	2.5			
Entrepreneurship	2.5			
Multimedia (available only thru 2016-17)	2.5			
Sports and Entertainment Marketing	2.5			
Technology Lab (available only thru 2016-17)	2.5			

APPLIED TECHNOLOGY DEPARTMENT

APPLIED TECHNOLOGY AND DESIGN CP

This course is designed to challenge students through the use of Technology Learning Activities (TLA's) using the 8-step designing loop, as well as developing basic skills in the use of small hand tools and limited power machinery. Students are encouraged to develop critical thinking skills through problem-solving activities. Safety is stressed in the school, as well as at home and work.

ARCHITECTURE AND DESIGN 1 CP

The college-bound student planning to study architecture needs to understand the design techniques and language that is necessary to enter the field of architecture. The industrial or trade worker needs a basic knowledge of drafting to learn how to read blueprints, to estimate cost, and to follow working instructions from blueprints. He/she must become proficient in on-the-job sketching, as well as in instrument drawing. A vacation home is designed using Revit for floor plans, elevations and wall sections. A simple three-dimensional model is built of the final design. Students will be prepared to further explore their architectural skills and knowledge as they continue in the Architecture and Design 2 course.

Prerequisite: CAD

ARCHITECTURE AND DESIGN 2 CP

This course provides the students with the opportunity to study Architecture in both the commercial and residential setting. Students are challenged through more advanced design challenges in Revit, AutoCAD, and 3 dimensional models.

Prerequisite: Architecture and Design 1

ARCHITECTURAL MODELING CP

This course is designed for the advanced Architecture student, with an emphasis on the design to model process. Advanced AutoCAD 3-D skills and Revit Programs are used to develop creative design challenges. Architecture and product modeling skills are developed.

Prerequisite: Architecture and Design 2

AT HOME WITH TECHNOLOGY CP

This course emphasizes the study of technology that has entered our home and affects how we maintain and repair it. Units such as house construction, plumbing, electrical, masonry, and carpentry will be covered. Students will have the opportunity to study energy efficient, computerized heating and air conditioning systems. The students will also be introduced to computer programs dealing with how things work. This course will assist students in making intelligent decisions concerning consumer awareness in the home.

COMPUTER AIDED DESIGN (CAD) CP

CAD is offered to those students who are interested in following engineering, architectural, or technical careers. Students will be introduced to Computer Aided Design (CAD), sketching, and basic technical drawing skills. Students will also use problem-solving skills to develop creative solutions to design problems. There is an opportunity for students to design and build a prototype model.

ENGINEERING H

This course integrates Science, Technology, Engineering, and Math (STEM) in a problem-solving approach to real life, practical problems. This course is highly recommended for students who are considering post-secondary study in the field of engineering. The course will challenge students to be creative, analytical thinkers. CAD will be used in the course to help students with their designs, along with 3-D printers.

Prerequisite: Concurrently taking Physics and Algebra 2

INTRODUCTION TO ENGINEERING CP

Taking on the role of engineer, students will identify problems, perform research, then conceive and design solutions in a variety of engineering disciplines including, but not limited to: mechanical, civil, electrical, and industrial. This course integrates Science, Technology, Engineering, and Math (STEM) by way of hands-on, real-world activities. The focus of the course will be the design and build process.

ROBOTICS CP

Robotics is designed to be a course with emphasis on simple machines in terms of moving, turning, lifting, and sensing the environment with a robot. The entire program and lab experience is both kinesthetic and computer-based, to maximize student learning and understanding. Tetrix components will be the focus, along with Arduino and Raspberry Pi.

STRUCTURED LEARNING EXPERIENCE (S.L.E.)

The S.L.E. Program is offered to eleventh and twelfth grade students interested in entering skilled career occupations. The program covers the industrial and trade areas, home economics, and medical fields. Some examples of specific career training positions held by students are machinist, toolmaker, carpenter, electrical and auto mechanic apprentices, welder, cook, baker, tailor, upholsterer, dental assistant, and medical lab technician.

Local industry and the business community team up with the school to offer on-the-job skill training in the afternoon. All S.L.E. students attend a career information class each day. The coordinator who also supervises the students on the job conducts this class. Some of the areas covered in this class are: safety; how to look for a job; interviews; how to be successful on the job; job attitudes; self-analysis of strengths and weaknesses; time-study techniques; and post high school education and training.

TRANSPORTATION AND ENERGY TECHNOLOGY CP

Students will gain technological literacy regarding power and energy as it relates to transportation systems. Students will work on design and problem solving activities related to various types of transportation and energy, and their environmental impact. Students will gain real world experience understanding and maintaining bicycles. Careers will be explored relating to transportation and energy.

WOOD PROCESSING TECHNOLOGY 1 CP

The course is designed to increase the skills in the use of hand tools and power machinery, which relate to woodworking processes. The course also offers the opportunity to enhance the development of lifelong skills.

WOOD PROCESSING TECHNOLOGY 2 CP

The course is designed to enhance the student's wood processing skills developed in Wood Processing 1 through creative projects and assignments. Students will be reminded and further instructed in the safe use of hand and power tools, the characteristics of various wood materials, assembly techniques, joinery design, and finishing procedures. Emphasis is placed on the development of knowledge, useful throughout their lifetime. The woodworking class begins with simple projects and joinery and progresses to more complex projects as the year goes on.

Prerequisite: Wood Processing Technology 1

ART DEPARTMENT

DRAWING I CP

The Drawing I course focuses on the practices and applications of basic drawing principles and techniques in order to build students' drawing skills. Students will be introduced to the elements and principles of design, aesthetic awareness, and art appreciation. A wide variety of drawing media such as graphite, charcoal, ink, markers, colored pastels, and/or colored pencil will be explored through a multitude of real and inventive subject matter. Students will be prepared to further explore their artistic expression as they continue in the art program. Students in Drawing I may be required to keep a sketchbook, which will increase their ability to convey a clear vision of their designs.

DRAWING II CP (BCC ART-124)

The Drawing II course focuses on developing an in-depth proficiency of various drawing techniques, methods, and materials. Building upon knowledge and ability gained from Drawing I, Drawing II is designed to be a continued exploration of drawing techniques, concepts, and various mediums. Students with a strong interest in drawing can expect to work on a range of assignments, both from observation and their own ideas in order to advance their drawing skills and abilities while increasing creative thought. Students in Drawing II will continue to build on their drawing skills and may be required to keep a sketchbook, which will increase their ability to convey a clear vision of their designs. This course may be taken as part of the Dual Enrollment program for credit through Bergen Community College - BCC ART-124 (3 Credits).

Prerequisite: Drawing I

PAINTING I CP

The Painting I course focuses on an introduction to painting as a means of artistic communication by using various materials such as acrylic, watercolor, and tempera paint. Students will develop an understanding of the core elements and principles of design, as well as painting techniques such as paint application, brush techniques, canvas construction, washes, and/or glazing. They will build and expand their abilities and creativity through a variety of projects working from life and their own original ideas. They will be prepared to further explore their artistic expression as they continue in the art program. Drawing and sketching is the foundation and basis of all art domains. Students in Painting I will be introduced to basic drawing skills and may be required to keep a sketchbook, which will increase their ability to convey a clear vision of their designs.

PAINTING II CP

The Painting II course focuses on developing an in-depth proficiency of various painting techniques, methods, and materials. Building upon knowledge and ability gained from Painting I, Painting II is designed to be a continued exploration of painting techniques, concepts, and various mediums. Students with a strong interest in painting can expect to work on a range of assignments, both from observation and their own ideas in order to advance their painting skills and abilities while increasing creative thought. Students in Painting II will continue to build on their drawing skills and may be required to keep a sketchbook, which will increase their ability to convey a clear vision of their designs.

Prerequisite: Painting I

SCULPTURE & CERAMICS I CP

The Sculpture and Ceramics course is designed to provide the student with experience in the creation of three-dimensional art using various techniques such as carving, modeling, casting, and/or construction. Through multiple projects and activities, students will utilize a variety of traditional and non-traditional materials, which may include clay, wood, metals, plaster, found objects, paper-mache, and stone. They will understand the core elements and principles of design and how they apply to three-dimensional art. Students will be prepared to continue in the art program and further explore and expand their abilities and creativity in three-dimensional art. Drawing and sketching is the foundation and basis of all art domains. Students in Sculpture and Ceramics I will be introduced to basic drawing skills and may be required to keep a sketchbook, which will enhance their ability to convey a clear vision of their designs.

SCULPTURE & CERAMICS II CP

The Sculpture and Ceramics II course focuses on developing an in-depth proficiency of various techniques, methods, and materials used in creating three-dimensional works of art. Students will explore and develop their personal style while building on the skills developed in Sculpture and Ceramics I. Students with a strong interest in Sculpture and Ceramics will work more independently while focusing on channeling their own artistic voices through their art. Drawing is the foundation for all areas of art. Students in Sculpture and Ceramics II will continue to build on their drawing skills and may be required to keep a sketchbook, which will enhance their ability to convey a clear vision of their designs.

Prerequisite: Sculpture and Ceramics I

DIGITAL DESIGN I CP

Students are given a foundation in the principles and elements of digital design, and an introduction to the concepts, professional terminology, and skills of a graphic artist. Students apply design theory to solve digital design challenges such as logo design, magazine/book layout, image manipulation, editorial illustration, labels, package design, posters, brochures, advertising design, greeting cards, and corporate image design. Drawing and sketching is the foundation and basis of all art domains. Students in Digital Design I will be introduced to basic drawing skills and may be required to keep a sketchbook, which will enhance their ability to convey a clear vision of their designs.

DIGITAL DESIGN II (BCC ART-122)

The Digital Design II course focuses on developing an in-depth proficiency of various digital design techniques, methods, and digital materials. Building upon knowledge and ability gained from Digital Design I, Digital Design II is designed to continue student exploration of design principles, concepts and various digital platforms. Students can expect to work on a range of design assignments structured to improve visual communication. Topics include creating strong digital compositions, developing sequential designs, designing packaging, understanding branding and exploring contemporary issues in professional design fields. Students in Digital Design II will continue to improve visual communication skills through drawing and sketching. Students may be required to keep a sketchbook, which will enhance their ability to convey a clear vision of their designs. This course may be taken as part of the Dual Enrollment program for credit through Bergen Community College - BCC ART-122 (3 Credits).

Prerequisite: Digital Design I

DIGITAL PHOTOGRAPHY I CP

The Digital Photography I course focuses on the introduction of the elements and principles of design, and an introduction to the concepts, professional terminology, and skills of a photographer. Students will become well rounded in the fundamentals of digital photography and photo editing. Topics include: camera and lens operation, basic functions and settings of a DSLR camera, exposure, white balance, composition, lighting, creativity, depth of field, portraiture, storytelling, and image editing software. Students will be introduced to the basic technology necessary for the production of their artwork, as well as learning about the visual arts, critiques, and exposure to the work of professional photographers.

DIGITAL PHOTOGRAPHY II CP (BCC ART-184)

The Digital Photography II course focuses on the continued application of the elements and principles of design, advanced digital photography concepts, professional terminology, and skills of a photographer. Topics include: camera and lens operation, advanced functions and settings of a DSLR camera, exposure, white balance, composition, lighting, creativity, panoramic, landscapes, portraiture, storytelling, and image editing software. Students will continue to use the advanced technology necessary for the production of their artwork, as well as learning about the visual arts, critiques, and exposure to the work of professional photographers. This course may be taken as part of the Dual Enrollment program for credit through Bergen Community College –

BCC ART-184 (3 Credits).

Prerequisite: Digital Photography I

DIGITAL ILLUSTRATION & ANIMATION I CP

Students will be introduced to the world of digital animation in illustration. In this course students will be given a foundation in the principles and elements of design, and an introduction to the concepts, professional terminology, and skill of a digital animator and illustrator. Students will be able to apply art theory and critical thinking skills to solve artistic problems. Some of these will be character development, animatics, digital illustration, narrative storytelling/illustration, and movement in art. Drawing and sketching is the foundation and basis of all art domains. Students in Digital Animation/Illustration I CP will be introduced to basic drawing skills and will be encouraged to keep a sketchbook, which will enhance their ability to convey a clear vision of their illustrations, visual narratives, and animations.

DIGITAL ILLUSTRATION & ANIMATION II CP (BCC ART-189)

In Digital Animation/Illustration II CP students will delve further into animation and illustration skills. In this course students will review the principles and elements of design, and build upon the concepts, professional terminology, and skill of a digital animation and illustration. Students will be able to apply art theory and critical thinking skills to solve artistic problems. Some of these will include the exploration in animation as a career, advanced character design, advanced narrative storytelling/illustration, and stop motion. Drawing and sketching is vital in all art domains. Students in Digital Animation/Illustration II CP will be continuing to advance their drawing skills and will be encouraged to keep a sketchbook which will enhance their ability to convey a clear vision of their illustrations, visual narratives, and animations. This course may be taken as part of the Dual Enrollment program for credit through Bergen Community College – BCC ART-189 (3 Credits).

Prerequisite: Digital Illustration & Animation I

ADVANCED STUDIO ART H

This course gives students the opportunity to develop and refine his or her current art portfolio. Students will also be able to create artwork that expresses their individual uniqueness, vision, and imagination. Students will explore develop, and advance their creative and visual voice, while budgeting their time. They will also experiment with materials while exploring their particular areas of interests in the fine arts.

Prerequisite: This course requires the completion of at least three art classes. Drawing is the basis for all Art. Drawing I is highly recommended for any students wishing to continue with Art in college.

ADVANCED PLACEMENT STUDIO ART

The Advanced Placement Studio Art course is offered to students who wish to pursue advanced college level work in studio art. Students will produce work for the AP Studio Art Portfolio in May. Students will choose to work on one of the following three AP portfolios: Drawing, 2-D, and 3-D.

Prerequisite: This course requires the completion of at least three art classes. Drawing I, and any second level class with a portfolio review, and a signed Art teacher recommendation.

BUSINESS DEPARTMENT

ACCOUNTING 1 CPE

Why explore accounting? There is always a need for accounting on both a personal and career level. Going to college for a business degree? You will have to take accounting. How about an accounting career? You will always be in demand. The Bureau of Labor Statistics projects that 142,400 new accounting and auditing jobs will open up by 2024. This equates to an 11 percent job growth rate.

This course is available to grades 10, 11, and 12. Specific course content includes emphasis on analyzing and recording business transactions to determine the financial position of a business. Curriculum activities are enhanced through guest speakers who focus on careers and opportunities in the accounting field. Throughout the course, technology will be integrated with appropriate accounting applications.

ACCOUNTING 2 CPE

The growing field of accounting offers many career opportunities in the business world, which are investigated through guest speakers, research activities, and independent projects. Accounting 2 enhances the coursework introduced in Accounting 1 and is focused on advanced accounting theory. Students will be able to apply accounting to real-world applications. This course applies accounting theory with an emphasis on analysis of financial statements, preparation of payroll records, and the introduction of partnership and corporate accounting.

Prerequisite: Accounting 1

APPLICATION DEVELOPMENT / I-APPS CP

The course reflects the shift of consumers and business people who recognize that mobile applications help users streamline and organize their lives with the touch of a screen. Apps can provide a wide range of services from educational to informational, and social to recreational, helping users navigate their lives, as well as their surroundings. Students will focus on learning to develop applications or “Apps” for personal use, and/or creating simple games for tablets, laptops, or handheld devices. Projects will be developed based on student interest.

BUSINESS CONTINUITY & MANAGEMENT CP

This course includes a set of planning, preparatory, and related activities which are intended to ensure that an organization’s critical business functions will continue to operate, despite serious incidents or disasters. Topics included in this course are the following: Cyber security as it relates to safeguarding intellectual property, financial information, and the company’s reputation; a survey of various business organizations and management controls, an overview of international business, entrepreneurship, and the role of government in business. Relevant and meaningful case studies will be introduced accordingly.

BUSINESS PRINCIPLES & MANAGEMENT CPE

The information contained within the business education curriculum is not only valuable for all students in today’s world, but also is critical for the success of our country. All students need to have a general understanding of how the American economy operates and the role business plays in the well being of this country.

Business Principles & Management is offered to grades 10, 11, and 12. It is a multifaceted course that prepares students to be successful in future professional/personal endeavors, as well as for those who wish to pursue business in college. In addition, this course will keep students informed of the constant changes in the economic environment that occurs in today's world. Specific course content includes: business organization, business ethics, entrepreneurship, management, marketing, finance, international trade, and investing. The study of business law as related to contracts and the rights and responsibilities of the individual is also included in the course.

COMPUTER ANATOMY CP

In this course, students will learn about the two different components of a computer: the hardware and the software. Students will explore the hardware components that make the computer work and run the computer. The students will learn how the software interacts with the hardware.

CONTEMPORARY BUSINESS TECHNOLOGY CP

This course focuses on preparing high school and business students for the 21st Century world. Students will create a digital portfolio, as well as a traditional resume suitable for college applications and employment. Career Planning and Interviewing Skills will be highlighted, with mock interviews led by staff members. Internet Safety and Digital Citizenship will also be explored.

DIGITAL MEDIA CP

Through the use of various multimedia files, students will learn to animate and edit images, videos, and audio content to produce professional appearing projects. Students will utilize the iPhoto and Photoshop applications for image editing and will use the appropriate tools and software packages for animation. Other applications may also be used throughout the class. The students will create several projects increasing in sophistication during the course of the year.

ENTREPRENEURSHIP CPE

In this course students will learn what is necessary to become a successful entrepreneur. They will examine the traits and skills of successful entrepreneurs, research many successful businesses, and compare the risks and rewards of owning a business. In addition, students will be required to create a small business idea of their own and complete a business plan for their entrepreneurship. They will complete all the necessary parts of the business plan including the idea, the company description, market and industry analysis, financial plan, operations plan, management plan, and vision/mission statements. Through the process of developing the business plan, students acquire the skills necessary to operate a successful business.

Prerequisite: Accounting 1, Business Principles, or Marketing

FINANCIAL LITERACY CP

In this course, students will develop skills and strategies that promote personal and financial planning, savings, investment, and charitable giving in the global economy. Financial literacy includes the application of knowledge, skills, and ethical values in consumer and financial decisions impacting self and family and the local and global community. The curriculum topics include: income and careers, money management, credit and debt management, planning, saving and investing, critical consumerism, citizen financial responsibility, and risk management and insurance. This course is a graduation requirement. For UP/ISB students, this graduation requirement will be satisfied with Global Financial Markets.

MARKETING CPE

Marketing surrounds us every day; however, there is more to marketing than meets the consumers' eye. This course is designed to investigate and apply traditional marketing concepts to real world situations. Using a hands-on and project-oriented approach, students apply marketing principles to a variety of situations to understand how marketing decisions function in the business world. The abilities developed in this course serve a myriad of purposes, including understanding business decisions, developing strong interpersonal skills, and honing effective communication aptitude. This course is ideal for students to pursue leadership positions in school, college, and professional life. The skills practiced in this class can contribute meaningfully to participation in DECA, an Association of Business and Marketing Students and an extracurricular club that involves an internationally recognized marketing competition.

SPORTS AND ENTERTAINMENT MARKETING CPE

Students will develop an awareness of how Sports and Entertainment Marketing correlates with their own real-world experiences. Students will understand the facets of market research, marketing mix, market segmentation, positioning, branding and licensing, promotion and sales, sponsorship and endorsement, as well as the various career opportunities that are available to them. Students will gain an understanding of what Sports and Entertainment Marketing is and how it evolved.

Prerequisite: Accounting I, Business Principles, or Marketing

WEB DESIGN CPE

Students will explore the topic of programming for the web using scripting languages. Emphasis will be on designing and implementing web pages using the modern scripting languages. This is a project-orientated course and students are expected to design and de-bug web pages. The course will also include a unit on programming.

Prerequisite: Algebra I

ENGLISH DEPARTMENT

The basic focus of the English program is the development of communication skills, particularly the skills of effective reading, writing, speaking and listening, on both the practical and the aesthetic levels. Organized sequentially, instruction in reading develops comprehension and interpretation skills, as well as the ability to recognize and respond to different forms of reading texts; instruction in writing focuses on the ability to express ideas coherently; instruction in speaking provides opportunity to master presentation skills; and instruction in listening enables students to practice careful, open-minded receptivity to the thoughts and insights of others, in addition to the practical listening skills needed for effective note taking. The English program is organized thematically by grade level, as each yearly course is designed around a central unifying concept or idea.

All required English courses are grouped into AP/Honors, College Prep Enhanced, and College Prep categories. Movement from a CPE-level course to an Honors or AP-level course will be considered for students who have earned an A average over the four marking periods. A teacher recommendation is required for students interested in moving from a CP-level course to a CPE-level course. The writing of a special assessment essay may also be required.

- The **Honors** grouping provides the necessary background for those students who wish maximum challenge, who demonstrate superior ability, and who have developed personal and time-management skills that allow them to maintain focus and to meet multiple deadlines. The Honors grouping in freshman and sophomore years is part of a sequence that leads to the junior and senior year AP curriculum in English.
- The **College Prep Enhanced** grouping is designed to meet the needs of students who desire a strong background in skills and subject matter rigor.
- The **College Prep** grouping is designed to meet the needs of students who are preparing for college or a career and are seeking more guidance than is given at the CPE level.

ENGLISH 1 H, CPE, CP

The English 1 program is a required course that provides the foundation for success in all areas of the language arts and at all ability levels. Focusing on the theme of “identity,” students will read and respond to a variety of texts, including short stories, novels, drama, and poetry, as well as to a variety of non-fiction essays taken from both departmental collections and from contemporary newspapers and magazines. As they work with these materials, students will make thematic connections while learning and practicing analytic and critical reading skills. Students will learn and engage in all stages of the writing process, including prewriting, drafting, revising, and editing. In so doing, they will recognize and practice the strategies and skills of content development, organization, and mechanical construction that are the building blocks of effective written communication. To monitor their growth, students will maintain writing portfolios of all compositions, along with periodic reflections of their writing strengths and weaknesses. As part of their experience in English 1, students will also engage in vocabulary development through exercises in word recognition, understanding new words in context, and review of roots, prefixes and suffixes; speech development through activities of oral presentation and speeches; and study skill development through an emphasis on note-taking and listening strategies. They will also apply the research process to a variety of assignments, each requiring the student to effectively find, evaluate, and use both electronic and paper-based sources. Central to all of the above, students will learn and apply the skills of critical reading, problem solving, decision-making, and self-managing that will support their success in the English program.

ENGLISH 2 H, CPE, CP

The English 2 program, at all ability levels, continues the sequential development of the skills essential for effective verbal and written communication. Examining the theme of “the individual’s role in society,” students will read and respond to a variety of texts, including short stories, novels, drama, and poetry, as well as to a variety of non-fiction essays taken from both departmental collections and from contemporary newspapers and magazines. As they work with these materials, students will continue to develop analytic and critical reading skills while making thematic connections. Students will continue to engage in all stages of the writing process, including prewriting, drafting, revising, and editing, as they expand and refine the techniques of content development, organization, and mechanical construction essential for effective written communication.

To monitor their development as writers, students will maintain writing portfolios of all compositions, along with periodic reflections of their writing strengths and weaknesses. Students will apply the research process to a research assignment focused on a social problem, condition, or controversy in their community or in the larger society. In so doing, they will find, evaluate, and use a variety of sources, including paper-based resources, online and electronic databases, and personal interviews.

Prerequisite: English 1

ADVANCED PLACEMENT ENGLISH 3

The Advanced Placement (AP) curriculum in English Language and Composition engages students in the process of becoming skilled writers who compose for a variety of purposes. Organized around the “American Experience,” students engage in extensive reading and writing exercises relative to this theme, as they examine the intricate relationships between a writer’s purpose, audience, subject, and use of rhetorical conventions. The course is designed to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. In this course, students develop their own process of composition: the way they explore ideas, reconsider strategies, and revise their work. The course assumes that students already understand and demonstrate mastery in the use of Standard English.

Accordingly, this program is designed to foster stylistic maturity by emphasizing a more intensive awareness of sentence structure, voice, and diction. Students will examine challenging texts and engage in a variety of compositional activities ranging from the expository, analytic, and argumentative forms of academic and professional communication to the personal and reflective forms, fostering the development of writing skills in any context.

Prerequisite: English 2 H or English 2 CPE

ENGLISH 3 CPE, CP

The English 3 program continues the sequential development of the skills essential for effective verbal and written communication. Organized around the theme of the “American Experience,” students will read and respond to selections of American literature ranging from the Colonial Period to the 21st Century, while exploring common themes, concepts, and conflicts that help define what it means to be “American.” Students will continue to develop their proficiency in effective written communication through a review of the structural components of composition and an increased attention on the elements of a writing style. They will continue to monitor their growth through the maintenance of writing portfolios, along with periodic reflections of their writing strengths and weaknesses. Students will apply the research process to a research assignment focused on an issue that is distinctly “American” or that, although found in other cultures, has a distinctly American

“flavor” to it. Students will continue to prepare speech, debate, panel discussion, and electronic/visual presentations as appropriate to the subject matter. Vocabulary study will also continue to enhance college readiness and to prepare students for standardized tests.

Prerequisite: English 2

AMERICAN STUDIES CPE

American Studies is a combined offering of the eleventh grade required courses in United States History 2 CPE and English 3 CPE. The course, taught by teachers from both the Social Studies and the English departments, is scheduled for two periods each day. Students who elect to take the American Studies program receive separate grades and five credits from each department.

The American Studies course is interdisciplinary in nature and takes a thematic approach to seeking connections between the American past and present. The study of literature and art brings life and humanity to the historical investigation, while chronology and historical fact give perspective to human experience. Class work is offered in individual, small group, and whole-class investigations into what it means to be an “American.” Emphasis is placed on close critical analysis of original as well as analytic texts, along with an examination of the music, art, and other expressions of American culture.

Students are expected to write frequently in responsive, analytical and persuasive modes, and to complete a research paper on a theme appropriate to the focus of the course. Critical thinking and problem solving is key to success in this course. Writing portfolios are maintained to record student growth and to provide the opportunity for reflection and goal setting.

Prerequisite: English 2

ADVANCED PLACEMENT ENGLISH 4

The Advanced Placement English 4 course, English Literature and Composition, is the equivalent of a full-year college freshman English course. It is offered to students who desire to pursue advanced, college-level studies in English while still in secondary school and who wish to prepare to take the Advanced Placement English Examination in May of their senior year. Successful achievement on the examination may qualify a student for exemption from college English, for college credit, or for advanced standing at college.

The AP English 4 course engages students in the careful reading and critical analysis of literature. Through the close reading of selected texts, students will expand their understanding of the way writers use language to provide both meaning and pleasure for their readers. Intensive study and analysis of traditional and contemporary novels, short stories, dramas, poetry, and essays from the sixteenth to the twentieth century are meant to challenge the student while developing the highest level of reading, analytical, and interpretive skills.

Students will consider a work’s literary, artistic, social, and historical values, along with language and textual details. Students will be expected to read extensively, and to make the connections that reveal a curious, alert mind coming to grips with the complexity and variety of human existence. Writing assignments are varied, focusing on the critical analysis of literature, and include expository, analytical, and persuasive essays. Emphasis in instruction is intended to help students develop stylistic maturity and to find and recognize their own voice as thinkers and writers. Students are expected to contribute regularly to all class discussion in a seminar format, to complete all class

assignments fully and conscientiously, and to maintain the pace of regular independent readings. Students are expected to take the English Literature and Composition AP exam at course's end.

Prerequisite: English 3 AP or English 3 CPE

ENGLISH 4 CPE, CP

The English 4 program emphasizes the need for students to maintain their developed proficiencies in verbal and written communication and also to experiment with the various forms of communication necessary in the twenty-first century. Focusing on the themes of “decisions, choices, and consequences,” students will study a variety of literary forms, such as nonfiction, drama, the novel, and poetry, as well as forms of other media, including music and film. Students will extend their proficiency in writing as they engage in personal, analytic, and persuasive composition exercises. Students will also continue to maintain writing folders by which they can monitor their growth and development as writers. Students will also complete a senior research activity, which may combine literary analysis with original investigation of a topic relevant to the theme of the year. As seniors, students are expected to seek and utilize a variety of sources as part of their inquiry. As students continue to refine their skills in all modes of communication, English 4 is designed to prepare students for success both in college and in the work/career world.

Prerequisite: English 3

WRITING CULTURE: INTRO TO CREATIVE NONFICTION H (SUPA WRT-114)

Introduction to Creative Writing focuses on the genre of creative nonfiction. Students explore varieties of creative nonfiction, such as memoir; biography; the personal essay; travel, science, and food writing; and “new journalism.” As its name suggests, creative nonfiction borrows elements from fiction and poetry (e.g., description, scene construction, dialogue, etc.) yet still aims to tell the truth. For a writer to “tell it slant,” however, is to acknowledge the ways in which one’s subjective viewpoint shapes what counts as “the truth” in telling a story about one’s own or another’s experiences. Students will have the opportunity to experiment with style, genre, and subject in a writing studio environment and to read varied examples of contemporary creative nonfiction (e.g., Michael Pollan’s *The Omnivore’s Dilemma*, Rebecca Skloot’s *The Immortal Life of Henrietta Lacks*, George Saunders’ *The Braindead Megaphone*, etc.). Students will craft and workshop their own creative nonfiction compositions. This course may be taken as part of the Dual Enrollment program for credit through Syracuse University - SUPA WRT-114 (3 Credits).

Prerequisite: English 3 AP or English 3 CPE

GENDER AND LITERARY TEXTS H (SUPA ETS-192)

Gender & Literary Texts explores the construction and representation of ‘gender,’ especially as it affects the production and reception of literary and other cultural texts. The course foregrounds readers’ *interpretive* practices, i.e., how we read and make meaning in texts, particularly if we interpret them using the premise that gender is a social construct—rather than a natural, ahistorical “essence” that somehow “expresses” our true “selves.” To examine the ways in which literature participates in the social reproduction of gender, as well as the difference that gender makes in the production and reception of literary texts, students will practice extensive close reading, evidence-based analysis and argumentation, and independent- inquiry. Raising awareness of how meanings are created through acts of critical reading, students will thus learn to analyze the ways texts construct categories of difference, including differences of gender, race and social class. This course may be taken as part of the Dual Enrollment program for credit through Syracuse University – SUPA ETS-192 (3 Credits).

Prerequisite: English 3 AP or English 3 CPE

FILM AS LITERATURE – FROM TEXT TO FILM CPE

This course uses the invaluable tool of film to help students interpret and evaluate literature and to promote media literacy. The class will highlight the process whereby written texts, including novels, drama and/or screenplays are translated from the written to the visual, and students will have an opportunity to appreciate the techniques employed in the evolution of film from concept to screen. Students will learn the vocabulary of film and employ this terminology to discuss the merit of films as works of literature to be studied using critical thinking skills and an understanding of the cultural and historical context.

***Prerequisite:* English 3**

SPORTS AND LITERATURE – A CULTURAL LOOKING GLASS CPE

This course will ask students to examine the unique relationship between sports and society, the impact that sports have had on our society, and how our culture's development is mirrored in athletics. Students will investigate the relationship through novels, non-fiction works, short stories, newspaper columns, and other media to gain an understand how these ideas are reflected through literature.

***Prerequisite:* English 3**

DYSTOPIAN LITERATURE – A WALK ON THE DARK SIDE CPE

This course will encourage students to investigate dystopian themes in literature to explore how authors craft a range of dystopian visions to explore the themes of totalitarian regimes that restrict individual freedoms, post-apocalyptic worlds, and seemingly improved societies that mask jarring inequities. In studying a variety of dystopian novels, short stories, and film, students will identify and analyze how dystopian authors turn an inquisitive eye on their own societies.

***Prerequisite:* English 3**

MYTH AND CULTURE CPE

This course will expose students to a global view of mythology and culture. Students will explore the universal qualities of humans' search for meaning and understanding of the world in which they live. They will read and study Greek, Roman, Norse, Native American, Eastern, and modern mythologies, and examine universal archetypes as the means of connecting such a vast body of literature. In an effort to appreciate the unique qualities of each culture, students will analyze myth as a reflection of these societies and the qualities that they valued.

***Prerequisite:* English 3**

THE IMAGINATIVE WORLD OF SCIENCE FICTION CPE

This course will provide students the opportunity to explore the genre of science fiction and analyze how the concepts introduced by writers of science fiction affect our understanding of modern life. Students will also read non-fiction articles from current science magazines in order to juxtapose theory introduced in literature with modern advances and understandings in science.

***Prerequisite:* English 3**

ENGLISH SEMINAR CPE

This course will focus on developing guided inquiry strategies, methods of research, and modes of presentation. Students will share a common experience in the study of texts, films, and readings through an increasing reliance on their own independent work. Students will be expected to complete guided independent research, write in a number of formats, and present their findings to the members of the seminar. As in the case in the conventional program, a priority will be placed on the development of communication skills and the application of the writing process, including

prewriting, drafting, revising, and editing. The seminar format is distinctive in three major ways: 1) The seminar will increasingly rely on the independent work of the students to explore and analyze the literature and content that is being studied; 2) Students will be expected to collaborate with the teacher to set learning agendas for the class; 3) Because of the emphasis that will be placed on guided inquiry and independent research, a priority will be placed on using non-traditional assessments.

Prerequisite: English 3

ADDITIONAL ENGLISH ELECTIVES:

ACTING LAB CPE

This course is designed to provide students with the foundation to develop their craft as a performer. The course provides students with a safe environment in which they may experiment and explore a variety of acting techniques. Additionally, students will apply these techniques to the texts of select master modern and classic playwrights.

AUDIO & FILM EDITING CPE

This course is designed to teach students how to mix and edit audio using Pro Tools, as well as how to film and edit video footage using Final Cut. Lighting, filming techniques, recording, and mixing, as well as proper care for equipment will be taught and utilized throughout this project-based course.

CHOREOGRAPHY CP

From Martha Graham to Mia Michaels and Bach to Beyoncé, this is your chance to develop a unique style and create a choreographic masterpiece! Choreography is an introductory level composition class in which students will explore a variety of techniques for creating choreography. Basic, intermediate, and advanced compositional elements will be examined, as students seek to create innovative solos, duets, and group pieces that enhance individual expression. In addition to studying the styles of a diversity of master choreographers, students will develop a language to constructively and critically examine the work of professional choreographers, of their peers, and of their own.

COMMUNICATIONS CP

Communications is an introductory, experiential course in which students will study various forms of media, use available technology, and create individual and group projects to reveal their level of understanding. The students' process of understanding will involve critical thinking, problem solving, creative, technical and performing skills that form the basis of media theory, history, technology, industry and personal relationships. From their study and projects, students will develop a discerning and knowledgeable attitude toward media, develop proficiency in the use of each medium, and develop an understanding of the effects of media on themselves and on society.

DRAMA CP

Drama is an introductory, experiential course in which students produce individual and group projects based on selected theater interests. Through these areas of interest, which may include play analysis, acting, basic designing of costumes, make-up, lighting, or scenery, play writing, and publicity/house management, students are encouraged to develop both their practical knowledge and aesthetic awareness of the creation process and of the principles involved in creating a tangible, artistic product: a play.

HUMANITIES: HEROES, HEROINES, NATURE, AND CONFLICT CP

This humanities course is open to all seniors and juniors, and those sophomores who have received permission to take the course. The course is designed for students of all abilities and interests. The purpose of the course is to establish a community of inquiry as students examine four major inquiry questions: a) What is humankind's relationship with and attitude toward the natural environment? b) How do humans find and define the purpose of their existence? c) Are humans capable of peaceful resolution of conflict? and d) Are humans unique? These explorations are multi-disciplinary and will include inquiries into philosophy, literature, music, fine arts, psychology, and history. In addition, these topics will be presented through a global perspective of mankind, emphasizing multi-cultural and multi-ethnic experiences.

JOURNALISM CP

Journalism is open to all grades levels and provides students with hands-on experience in writing for publication in print and electronic media. Areas of special interest include gathering and writing news, conducting and recording interviews, and crafting features, sports stories, and effective editorials. Students will examine the history of journalism and the role of journalistic reporting in society.

MUSICAL THEATRE CP

This course examines the form, theory, history, and changing styles of the American book musical, which has dominated the Broadway stage for the past century. Students will learn and apply a variety of musical theatre performance techniques as they play a vital role in creating a successful production.

PHILOSOPHY OF KNOWLEDGE H (Indian Hills only)

This honors level course is scheduled for all Grade 12 students in the **University Program**. The course will use the Ways of Knowing curriculum, which proposes that there are different ways of understanding nature and human behavior, as reflected in our different *University Programs*. The highest goals for the Ways of Knowing program is developing an inquiring spirit, maintaining a pattern of open-mindedness, and demonstrating a love for the pursuit of wisdom.

PUBLIC SPEAKING CP

This is an experiential, 2.5 credit, survey course of various types of speaking situations. In their individual and group presentations, students will study speech composition and presentation techniques through the use of style, voice, articulation and physical presence. Additionally, students will focus on critical thinking, problem-solving and creative expression as the basis for their speech work. Students will also use various media to develop, prepare and present their speeches. The ultimate course goal is to promote the construction of meaning through the interaction and integration of speaker, topic and audience.

SCRIPT WRITING CP

Using a balance of lecture, writing exercises, and work-shopping, Script Writing offers a safe and supportive environment for young writers of all levels to gain a firm grounding in the art and craft of writing for the stage and for screens of all sizes. In this course, students will master manuscript format, conflict, plot structure, characterization, dialogue, and finding their own voice through the writing process.

STAGE MOVEMENT / DANCE CP

Stage Movement is a dance fundamentals class for any student interested in a variety of movement styles and approaches to dancing. Students will work together to improve dance skills including alignment, strength and flexibility. In addition, students will create original movement pieces enhancing creativity, and use dance as a means for expressive artistry.

Techniques include:

- Body Conditioning (including yoga, Pilates, and physio-ball technique)
- Ballet and Modern Dance
- Cultural Dance Forms
- Social Dance Styles

THEATRE PRODUCTION CP

This course is designed to provide students with a “behind-the-scenes” look at today’s theatre. Students will have the opportunity to study various aspects of stagecraft and theatrical production, including theatre safety, stage management, set design and construction, lighting design, audio engineering, properties mastery, costuming, as well as stage makeup and hair design.

TV STUDIO PRODUCTION CPE

The changes in broadcasting techniques have been dramatic with the advent of digital technology. This course allows students to learn the latest in digital editing, as well as the parameters for creating projects for broadcast. Students will utilize the TV studio to create and develop independent projects.

WRITER’S WORKSHOP (Creative Writing) CP

Writer’s Workshop is a course designed for students of all levels of writing proficiency who want to further develop their writing skills. In a workshop environment, students progress at their own pace and receive feedback through individualized teacher conferencing and by engaging in peer and self-evaluation. Students use group discussion to analyze elements of effective writing and then apply these features to their own work. The course focuses on creative expression; the skills mastered easily transfer to academic class settings as student writing becomes more focused and descriptive in nature and the student writer develops an awareness of the role of language in communication.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES

ELL is open to any student based on language need.

English for Speakers of Other Languages is an English course individualized to meet the unique needs of limited English proficient students. The course combines reading, writing, speaking, and listening instruction with an introduction to literature. Following comprehensive testing and a review of student achievement in all school courses, students may leave this course at the end of the first, second, or third marking periods to enter a regular English classroom. At the end of the school year, students who do not achieve sufficient English language proficiency are required to take a five credit English for Speakers of Other Languages course in the following year. They may also elect a 5 credit regular English course.

FAMILY & CONSUMER SCIENCE DEPARTMENT

CHILD DEVELOPMENT CP (BCC EDU-120)

Child Development involves the study of growth and behavior patterns and characteristics of early childhood. This program will provide career orientation that will benefit students planning a career in early childhood education or working in a childcare facility. **Students must complete and submit a pre-approval form, available in the Guidance Office, prior to registering for the class. Pre-approval is based upon attendance and discipline record.** This course may be taken as part of the Dual Enrollment program for credit through Bergen Community College – BCC EDU-120 (3 Credits).

CONTEMPORARY FOODS CP

The primary purpose of this course is to emphasize the basic principles of food preparation. The students will develop necessary skills through hands on experience while preparing a wide variety of dishes from various food groups.

GLOBAL FOODS CP

Individual student satisfaction comes from experiencing how to plan, prepare, and serve complete and appealing meals. Students will become acquainted with various countries and cuisines while increasing their knowledge of food preparation.

Prerequisite: Contemporary Foods

THE CULINARY GOURMET CP (BCC HRM-103)

Students will become acquainted with gourmet techniques of food preparation while gaining confidence in planning individual foods and complete meals for any occasion. This course may be taken as part of the Dual Enrollment program for credit through Bergen Community College. Dual Enrollment credit cannot be earned for both The Culinary Gourmet *AND* Real World Cooking – BCC HRM-103 (3 Credits).

Prerequisite: Global Foods

REAL WORLD COOKING CP (BCC HRM-103)

A hands-on culinary adventure offered to seniors ready to enter the real world of everyday cooking while preparing them for future independence. This course may be taken as part of the Dual Enrollment program for credit through Bergen Community College. Dual Enrollment credit cannot be earned for both Real World Cooking *AND* The Culinary Gourmet – BCC HRM-103 (3 Credits).

FASHION & TECHNOLOGY 1 CP

This course is designed to familiarize the student with basic principles of clothing construction, textiles and fabric care. It gives each student an opportunity to apply these principles in a laboratory situation. Construction of garments, home decorating items, and creative crafts are encouraged. No experience with the sewing machine is required.

FASHION & TECHNOLOGY 2 CP

This course is designed to allow students to employ more advanced techniques in clothing construction. Opportunity is given for clothing construction designed for the individual figure.

Prerequisite: Fashion & Technology 1

FASHION & TECHNOLOGY 3 CP

This course develops an appreciation for quality workmanship through construction of tailored garments. The student will utilize techniques for the handling of special fabrics in these garments.

Prerequisite: Fashion & Technology 2

FASHION & TECHNOLOGY 4 CP

This course is designed to build a more complete analysis of clothing construction relating to the current fashion world and the students career choice. The course will make use of the principles of fashion design through history as related to today's trends. Students who will be applying to a college fashion program may work on their portfolios during class.

Prerequisite: Fashion & Technology 3

HEALTH AND PHYSICAL EDUCATION DEPARTMENT

The Health and Physical Education program offers a wide range of educational activities for our students, whenever facilities permit. Objectives of our program include promoting leadership, teamwork, and healthy behaviors. We strive to contribute to our students overall emotional, physical, and social development by providing a variety of invigorating, unique, and instructive learning opportunities to facilitate the development of individual fine motor, fitness, and interpersonal skills.

PHYSICAL EDUCATION

- Every student is required to have instruction in the regular class program, which includes individual and team sports, dance, body mechanics, and conditioning. Progression and evaluation in the teaching of various skills are included.
- A Wellness Program, utilizing aerobic conditioning and strength training equipment, will be required of all students. The goal of this program is to encourage students to acquire the knowledge and skills necessary to develop and monitor their own personal fitness program. Our ultimate goal is to motivate all students to adopt a lifetime commitment to maintaining a healthy and active lifestyle.
- The Health and Physical Education program also features extremely unique learning experiences that include: Team Low Challenge Adventure Education (Grade 9). Mountain Bike Trail Riding (Grades 9-12), and High Element Adventure Education (Grades 10-12).

PHYSICAL EDUCATION GRADING CRITERIA

Final unit grades will be based on a point system consolidating all three of the listed assessment parameters.

EPS – Effort / Participation / Sportsmanship – 50% of Grade

- This includes character, cooperation, sportsmanship, interest, and class conduct. Students will be observed for their ability to interact cooperatively with their classmates and teacher during all activities.

AA – Activity Assessment – 25% of Grade

- Demonstrates use of strategies during game play while maintaining a **high level of intensity**.
- Demonstrates proper skill mechanics or the attempt of proper skill mechanics consistently.
- Adheres to and knows the rules, proper steps, and tactics of the game or activity.

WU – Warm Up – 25% of Grade

- Student will be highly engaged in all aspects of the warm-up, and actively engaged in all flexibility, strength, and cardiovascular exercises during dynamic warm-ups and all fitness activities

GRADING, ABSENCES, AND CREDIT:

GRADING RUBRIC

- A** - Performs at a **very high** level for the duration of the activity
- B** - Performs at a **high level** for the duration of the activity
- C** - Performs at a **moderate** level for the duration of the activity
- D** - Performs at a **minimal** level for the duration of the activity.

ABSENCES / MAKE-UPS / UNPREPARED:

A. Credit - No Make-Up Required

A note from home required to Main Office (personal illness with Doctor's note, death in family, religious observance, driver's test, court appearance, college visit)

B. Non-Credit – Any Unexcused Absence from School

Points will be deducted from the student's final **unit grade** for each non-credit absence after the first non-credit absence is recorded. During each PE activity unit, when the allowable non-credit absence limit has been reached, students can makeup remaining non-credited absences for PE class. Makeup classes will be offered after school on predetermined days.

C. Unprepared for Class

Physical Education is essentially an activity-based participation course. You must be in class and prepared to participate in order to be successful. An unprepared student will lose full credit for the day. Unprepared students who choose to sit out and observe class, lose the privilege to makeup that class since they are present during the instructional phase of the prescribed activity.

D. Cuts

Students who cut class will also lose the privilege to makeup class and lose points. A student who cuts class will lose full credit for the day.

PHYSICAL EDUCATION MEDICAL EXCUSE PROCEDURE

All Physical Education students who have been medically excused by a doctor or the school Athletic Trainer are required to bring their medical note to the school nurse for verification. Once notification of the medical excuse has been finalized, the student will then either be assigned a Study Hall to complete Physical Education related written assignments or will remain with their assigned PE teacher/class to observe class activities.

Students who are medically excused for two weeks or more or are placed on a marking period, semester, or full year Medical Excuse, will be assigned to a Study Hall to work on Physical Education related assignments. All medically excused students will be responsible to complete classwork that will be assigned to them by their PE activity teacher. The extent, complexity, and type of assessment and/or assignments required will be coordinated and conveyed to the student by his/her PE teacher.

HEALTH EDUCATION

Health instruction is offered to all students throughout the four-year period. A four-year sequence of study is prescribed as follows:

Grade 9: Personal Health and Anti-Harassment Unit

Grade 10: Driver and Safety Education

Grade 11: Family Life Education

Grade 12: First Aid & CPR

Alcohol, tobacco, and narcotics units are taught every year. The junior health program offers a sequence dealing with Human Sexuality. Information concerning the educational materials used in this program is available by contacting the Health and Physical Education Department Supervisor at either high school. Students, whose parents find portions of this program objectionable, will be permitted an independent study option upon receipt of written request by the parent or student (if student is 18 years of age or over). A 1.25 course in Health Education is required for each student each year.

MATHEMATICS DEPARTMENT

The Mathematics Curriculum is aligned with the NJ Student Learning Standards and focuses on problem solving, critical thinking, and real world applications. The Mathematics Department will continue to revise the curriculum as standards and assessments evolve.

General Prerequisites for Honors and AP Courses:

To remain in an Honors course in the next school year, the student must achieve a final grade of at least a 'B' and receive a positive teacher recommendation.

To move from a College Preparatory Enhanced to a Honors/AP course in the next school year, the student must achieve a final grade of 'A' and receive a positive teacher recommendation.

Recommended Calculators:

Students in all Mathematics courses are strongly encouraged to have their own graphing calculator. The recommended calculators are Texas Instruments models TI 84 - TI 84 Plus, as these will be the calculators used by all of our math teachers in class. The use of these calculators is permitted on district, state, and national assessments including the PARCC, SAT, SAT Subject Tests, ACT and Advanced Placement exams. Students will be using these tools in class and for assignments. In addition to high school math courses, they will be appropriate for undergraduate math courses at the college level.

Any concerns or questions regarding this policy should be addressed to the building Supervisor of Mathematics.

Summer Course Policy:

*Given the high standards, pace, and content of our math curriculum, students are generally not encouraged to take summer courses in place of our year-long course offerings. However, a student who wishes to place out of a math course must have the summer course approved by the supervisor prior to registration. Further, the student is expected to earn at least a 'B' in the course. Taking summer courses to satisfy prerequisites for Honors or AP courses is not recommended. **The supervisor reserves the right to administer an appropriate test before approving placement.***

ALGEBRA 1 CP

This course meets 7.5 periods per week and is an introduction to algebra, including topics such as linear equations, systems of linear equations, families of functions, polynomials, and quadratic functions. Elementary probability and statistics will also be introduced, and there is a strong emphasis on problem solving and real-world applications. Additional time will be provided for lab activities, a review and extension of skills, and detailed work on problem solving.

ALGEBRA 1 CPE

This course consists of an introduction to the study of algebra, including topics such as linear equations, systems of linear equations, families of functions, polynomials, and quadratic functions. Elementary probability and statistics will also be introduced, and there is a strong emphasis on problem solving and real-world applications.

Students who demonstrate superior achievement in Algebra 1 CPE may wish to study both Algebra 2 and Geometry during their sophomore year. These students should maintain an "A" average in Algebra 1 and have a positive teacher recommendation.

ALGEBRA 1 REFRESHER CP

The curriculum in this course is designed to provide instruction and reinforcement of algebraic skills for those students who have not met state and local standards of proficiency in these skills. Algebraic skills will be reviewed using a variety of strategies, including computer-based platforms. Students will be assessed to determine specific areas in need of remediation. Students will also complete problems that specifically prepare them for the required assessments to meet state graduation requirements. Students will earn 2.5 credits toward the total number of credits for graduation. These credits and grades will not be entered into the GPA calculation. Students who do not meet the State requirements for proficiency in Mathematics are required to take this course in addition to their regular class in Mathematics.

GEOMETRY H, CPE, CP

This course includes the properties of figures in a plane and in space as well as the use of real numbers in the measure of distances, angles, arcs, areas and volumes. Some topics for discussion and analysis are lines, planes, angles, triangles, direct and indirect proof, congruence, similarity, parallelism, perpendicularity, circles, areas of polygons and circles, areas and volumes of solids, and trigonometry related to triangles. A coordinate approach or a transformational approach will be utilized in developing some units.

Prerequisite: Algebra 1

ALGEBRA 2 H, CPE, CP

This course continues the study of algebra, including topics such as quadratic functions, complex numbers, polynomial functions, rational functions, exponential and logarithmic functions, and trigonometric functions. Sequences and series are also introduced, and there is further study of statistics and probability.

Prerequisite: Geometry

PRECALCULUS MATHEMATICS H, CPE

This course in Precalculus Mathematics is centered about the study of relations and functions. Topics include circular functions, trigonometric functions, logarithmic and exponential functions, polynomials, conic sections, polar graphs, and sequences and series.

Prerequisite: Algebra 2 H, CPE

COLLEGE ALGEBRA AND STATISTICS CPE

This course is designed for students who have completed Algebra 2 CPE and who intend to pursue a liberal arts program in college. The topics include probability, systems of equations, matrices, complex numbers, logic, consumer and financial management, and topics in statistics.

Prerequisite: Algebra 2 CPE

ADVANCED MATHEMATICS APPLICATIONS CP

This fourth year course reviews important Algebra and Geometry concepts and focuses on other topics such as matrices, trigonometry, consumer math, probability, and statistics. Problem solving and critical thinking skills are stressed, as well as real-world applications.

Prerequisite: Algebra 2 CP, CPE

ADVANCED PLACEMENT STATISTICS

The course content for AP Statistics is determined by the syllabus published by The College Board. Topics include experimental design, analysis of data, and methods of statistical inference. Students will be prepared to take the Advanced Placement Examination in Statistics upon completion of this course.

Prerequisite: *Students who have completed Algebra 2 or Precalculus must have received an “A” in CPE or a “B” in Honors, and have a positive teacher recommendation.*

CALCULUS CPE

This course provides a thorough introduction to Calculus, while also reinforcing important concepts from prior math classes. Topics include functions, limits and continuity of functions, derivatives of algebraic and transcendental functions, and integration of algebraic and transcendental functions and applications of the derivative and the definite integral. This course is not intended to prepare students to take the Advanced Placement Examination in Calculus.

Prerequisite: *Precalculus Mathematics CPE, H*

ADVANCED PLACEMENT CALCULUS AB

This course provides a thorough introduction to Calculus, similar to a first semester college level Calculus course. Topics include functions, limits and continuity of functions, derivatives of algebraic and transcendental functions, integration of algebraic and transcendental functions, and applications of the derivative and the definite integral. Students will be prepared to take the Advanced Placement Examination in Calculus AB upon completion of this course.

Prerequisite: *Precalculus Mathematics H or an “A” in PreCalculus Mathematics CPE*

ADVANCED PLACEMENT CALCULUS BC

The content of this course is determined primarily by the BC level syllabus of the program in Advanced Placement Mathematics as published by The College Board. The topics include all topics from Calculus AB, as well as additional topics such as improper integration, area bounded by polar curves, advanced integration techniques, and the study of series. Students will be prepared to take the Advanced Placement Examination in Calculus BC upon completion of this course.

Prerequisite: *Precalculus Mathematics H*

MULTIVARIABLE CALCULUS H (SUPA MAT-397)

Multivariable Calculus (Calculus III) extends the limit, differentiation, and integration concepts of first year calculus to functions of more than one independent variable, which occurs in economics, statistics, physics, chemistry, and biology. There is a more theoretical treatment of the limit, derivative, and integral. These concepts are applied to work, projectile motion, cycloids, optimization, related rate, volume, normal curve, mass, density, and moment of inertia problems. Vectors are used in three space for analytic geometry and for rates of change of functions in all directions. Topics include conic sections, parametric curves, polar coordinates, coordinate systems and vectors, arc length, curvature, velocity and acceleration, functions of several variables, partial derivatives, tangent planes and linear approximations, directional derivatives, double integrals, triple integrals in cylindrical and spherical coordinates, vector fields, line integrals, parametric surfaces, and surface integrals. This course may be taken as part of the Dual Enrollment program through Syracuse University, pending final approval through Syracuse University. To register for this course

with Syracuse University, students must provide documents confirming completion of one of the following prerequisites: earning a score of 4 or better on the AP Calculus BC exam; or a qualifying score on the Syracuse University's MAT-296 (Calculus II) final exam. Students have the option to receive 4 college credits through Syracuse University Project Advance - SUPA MAT-397 (4 credits). This course will run with the SUPA designation, pending final approval with Syracuse University.

Prerequisite: AP Calculus BC or AP Calculus AB with teacher recommendation and AP Calculus BC as a Co-requisite.

COMPUTER SCIENCE H (BCC CIS-165)

This honors-level course is designed to give students an understanding of structured programming. Students will design, write and execute programs in modern computer languages. Specific topics include top down design, conditional statements, branching, looping, built-in and user defined functions, and elementary applications. This course may be taken as part of the Dual Enrollment program for credit through Bergen Community College – BCC CIS-165 (3 Credits).

Prerequisite: Students must have achieved at least a 'B' in an accredited Algebra 1 program.

ADVANCED PLACEMENT COMPUTER SCIENCE A

This course is designed so students will code fluently in a structured computer language. Emphasis will be on programming methodology, algorithms, data structures and documentation. The course content is determined primarily by the syllabus in Advanced Placement Computer Science as published by The College Board.

Prerequisite: Computer Science H or Supervisor Approval

ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES

This course is designed to introduce students to the main principles within computer science, utilizing computational thinking and problem solving skills. This course will also include concepts that open up the creative side of computer science for students. The course content is determined primarily by the syllabus for Advanced Placement Computer Science Principles as published by The College Board.

Prerequisite: Students must have achieved at least a "B" in an accredited Algebra 1 program.

MUSIC DEPARTMENT

CONCERT CHOIR CP, H (See course Instructor for Honors Requirements)

Membership in the Concert Choir is open for all high school students, regardless of previous singing experience. Students are expected to possess a lively interest in singing and a willingness to develop the technique necessary to realize healthy vocal growth. Students will study choral music from the major stylistic periods, as well as contemporary and Broadway Show music. Students learn proper vocal technique through breathing, phonation, diction, expression, and dynamics. Through Concert Choir, students learn fundamentals of music theory, music notation, and aural recognition of intervals to develop basic music literacy skills. Students are required to perform at evening winter and spring concerts and expected to attend all scheduled performances determined by the director at the beginning of the school year. Students are encouraged to continue their musical experience in Concert Choir and after completing one year of Concert Choir; interested students are welcome to audition for Chamber Choir.

Prerequisite: By Audition Only for the Honors course

CHAMBER CHOIR CP, H (See course Instructor for Honors Requirements)

Chamber Choir is for students who have successfully completed at least one year of Concert Choir and wish to continue singing at a higher skill level. Students in grade levels 10-12 who have passed their audition with the instructor and are committed to advancing their ensemble vocal techniques through proper breathing, healthy phonation, diction, expression, and dynamics. Students should take Chamber Choir to experience a more advanced and challenging repertoire, representing music from various cultures and musical time periods. Chamber Choir prepares students for various aspects of professional life, including musical audition processes and interview settings. Music literacy is improved through sight-reading. Students are required to perform at the evening winter and spring concerts and expected to attend all scheduled performances determined by the director at the beginning of the school year. Students are encouraged to participate in choir throughout all four years of high school. **Students who wish to take this course for 2.5 credits must have permission from the Instructor.**

Prerequisite: By Audition Only for both the CP and Honors courses

MUSIC THEORY CPE

Music Theory develops understanding and skills in the technical aspects of music. The course is designed for both students with no previous musical training and for those who sing or play an instrument. Attention will focus on training in sight singing and dictation, time-beating and rhythmic execution, conventional harmonic practices, and analysis. The course explores the basic concepts of pitch and rhythm in terms of their physical basis, notation, performance, and theoretical organization, in a broad and thorough survey of music fundamentals.

ADVANCED PLACEMENT MUSIC THEORY

This advanced course is for students who have completed Music Theory CPE and want to continue their study of the elements of music at a complex level leading to the Advanced Placement examination in May. The course of study includes sight-singing, ear training, orchestration, instrument identification, timed dictation, the analysis of a major piece of music, and the writing and performing of an original composition. The course includes the concept and application of rhythm, complex notation, and non-harmonic tones.

Prerequisite: Music Theory CPE. Students with an advanced level of musical experience who have not taken the Music Theory CPE course may take course with a teacher recommendation.

POP AND ROCK: AN INTRODUCTION TO MUSIC CPE

Pop and Rock is an introductory music appreciation course that will involve music listening and analysis for the inexperienced musician. Discussion of music history, theory, and culture is combined with the development of critical listening skills and exposure to all eras of musical development in the Western World from early American Show music to modern rock and pop music. Though this is not a performance class, students will learn to aurally identify key components of music, such as instrumentation, form, and lyric analysis. Much of the class will include units on jazz, rock, and pop, which will allow students to apply what they've learned in the class to music they hear most commonly throughout their lives.

STRING ORCHESTRA CP, H (See course Instructor for Honors Requirements)

Membership in the String Orchestra is open to all high school students who play a string instrument (Violin, Viola, Cello, Bass, Acoustic Guitar) or piano, regardless of any previous musical background. This course provides string, guitar, and piano students with musical experiences designed to develop advanced performance techniques, various skills and styles of music, chamber music, creativity and musicianship. Primary emphasis is placed on tone development, sight-reading, rhythm, and ensemble performance. Students are encouraged to take String Orchestra for four years. Students are expected to perform at the evening winter and spring concerts, and FLOW concerts. Part of the Orchestral Curriculum consists of instrumental lesson groups, which utilizes small group instruction, wherein students are grouped according to ability and like instruments; instrumental music lessons are given to all students in Grades 9 to 12. Materials for the class lessons include standard method books, scales, rhythm sheets, solo and ensemble materials, and new challenging techniques. Special attention is given to developing correct rhythmic concepts and beautiful tone quality.

Prerequisite: By Audition Only for the Honors course

SYMPHONIC BAND CP, H (See course Instructor for Honors requirements)

Membership in the Symphonic Band is open to all high school students, regardless of any previous musical background or experience. The Symphonic Band program includes music fundamentals of reading music notation, performance techniques, and rules of music interpretation. In addition to performing in evening concerts, Band students perform at assemblies, clinics, and festivals. Students are encouraged to take this course for four years and are expected to produce increasingly advanced work with each year. Students are expected to perform at the winter, FLOW and spring concerts, and graduation. Part of the Symphonic Band curriculum consists of instrumental lesson groups, which utilizes small group instruction, wherein students are grouped according to ability and like instruments. Materials for the class lessons include standard method books, rhythm sheets, solo and ensemble materials, and selections taken from the band parts. The playing technique is evaluated, and attention given to developing correct rhythmic concepts and beautiful tone quality.

Prerequisite: By Audition Only for the Honors course

WIND ENSEMBLE CP, H (See course Instructor for Honors requirements)

Membership in the Wind Ensemble is open to all high school students **by Audition Only**. Emphasis is placed upon developing appreciation for all styles of music through the study and performance of original band works and transcriptions. The level of selected music is a grade 3-1/2 and higher requiring advanced musical skills. Students are expected to perform at the winter, FLOW and spring

concerts, and graduation. Part of the Wind Ensemble curriculum consists of instrumental lesson groups, which utilizes small group instruction, wherein students are grouped according to ability and like instruments. Materials for the class lessons include standard method books, rhythm sheets, solo and ensemble materials, and selections taken from the band parts. The playing technique is evaluated, and attention given to developing correct rhythmic concepts and beautiful tone quality. **Students who wish to take this course for 2.5 credits must have permission from the Instructor.**

Prerequisite: By Audition Only for both the CP and Honors courses

SCIENCE DEPARTMENT

The science standards are designed to help realize a vision for education in the sciences and engineering in which students, over multiple years of school, actively engage in scientific and engineering practices and apply crosscutting concepts to deepen their understanding of the core ideas across all sciences. The learning experiences provided to students engage them with fundamental questions about the world and how scientists investigate and find answers to those questions. Students carry out scientific investigations and engineering design projects related to the disciplinary core ideas in biology, chemistry, and physics/physical science courses at all levels.

General Prerequisites for Honors and AP Courses - In order to register for an Honors and AP course, students must meet one of the following criteria:

~ A final grade of "B-" or better in the currently enrolled honors science course and teacher/supervisor recommendation –OR–

~ A final grade of "A-" or better in the currently enrolled CPE science course and teacher/supervisor recommendation.

*DISSECTION OPTION STATEMENT: Pursuant to New Jersey Statute 18A:35-4.25 (available in its entirety at: <http://www.nj.gov/njded/aps/ccs/science/dissection/faq.htm>), students have the right to decline to dissect, vivisect, incubate, capture or otherwise harm or destroy animals or any parts thereof as part of a course of instruction. If parents desire to exempt their students from participation in such activities, they must notify the school within 2 weeks of their student's enrollment in the course. If students do not participate in a lab experience involving use of animals as described above, their grades will not be affected as long as they master the agreed-up learning objectives and expectations. In order to meet prescribed learning objectives and expectations, alternative means of instruction will be utilized. Acceptable alternatives to the activities include videos, models, computer programs, books and the use of manipulatives. If you have any questions regarding this notification or if you would like to exercise your right to exempt your student, please contact the Science Supervisor at your child's school. Courses to which this statement applies, are noted by ***DISSECTION OPTION*** at the end of each course description.*

INTEGRATED PHYSICAL SCIENCE CP

This College Preparatory laboratory-based course will provide students with a fundamental understanding of the physical sciences with special attention to specific student needs. Emphasis is placed on the development of study skills conducive to mastery of science content and related math applications. Topics of study include key concepts and principles in physics, chemistry, and space & earth science. Proficiency in science and engineering practices are developed through laboratory activities.

Co-requisite: Algebra 1 CP or Integrated Algebra and Geometry CP

CHEMISTRY CP

This College Preparatory laboratory-based course provides a fundamental understanding of chemical principles and concepts. Students will explore the nature of matter and energy and how their interactions are essential to an understanding of the physical universe. This course provides students with an understanding of the states and properties of matter, the development of models of the atom, and the foundational principles of chemistry. The focus for this class is to help students make connections between chemistry concepts and their everyday world.

Prerequisite: Algebra 1 CP or Integrated Algebra and Geometry CP

CHEMISTRY CPE

This College Preparatory Enhanced chemistry course provides the opportunity for students to acquire an in-depth study of chemical principles and concepts. It is designed to highlight the chemistry needed in future science studies. Students will analytically study chemistry principles and learn the problem-solving techniques that are widely used in science and related disciplines. Fundamental principles, including atomic structure, chemical bonding, stoichiometry, kinetic theory, gas laws, thermochemistry, and equilibrium are developed. The major concepts, basic vocabulary, and intellectual and laboratory skills expected in any college preparatory chemistry course are included. In addition to numerous laboratory experiences there is an emphasis on problem solving, physical and mathematical modeling, research methods and experimental techniques.

Prerequisite: *Algebra 1 CPE or Algebra 1 CP, and Biology CPE*

Co-requisite: *Geometry CPE*

CHEMISTRY H

This laboratory-based chemistry course provides the student with an opportunity to study how the properties of and interactions with matter are consequences of their structure. Fundamental principles, including atomic theory and structure, chemical bonding, stoichiometry, kinetic theory, gas laws, thermochemistry, equilibrium, kinetics, and thermodynamics are developed. The principles of chemistry are studied quantitatively and the student's mathematical and analytical skills are strongly utilized throughout this problem-solving course. Extensive student laboratory work will progress to a high level independence in experimental reasoning and analysis.

Prerequisite: *Algebra 1*

Co-requisite: *For Incoming Freshmen: Algebra 2 H, Algebra 2 CPE, or Geometry H;*

For sophomores: Algebra 2 H, Algebra 2 CPE, Geometry H, or Geometry CPE

ADVANCED PLACEMENT CHEMISTRY

The AP Chemistry course provides students with a foundation to support future advanced course work in chemistry. Through inquiry-based learning, students develop critical thinking and reasoning skills. Students cultivate their understanding of chemistry and science practices as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. This course requires that 25 percent of the instructional time provides students with opportunities to engage in laboratory investigations. This includes a minimum of 16 hands-on labs, at least six of which are inquiry based. It is expected that students in this course will take the AP exam in May.

Prerequisite: *Chemistry CPE or Chemistry H*

BIOLOGY CP

This College Preparatory laboratory-based course provides a fundamental understanding of biological concepts. The process of scientific inquiry and the integration of concepts within life experiences are stressed through class activities and laboratory investigations. Students will gain an understanding of the structure, characteristics and basic needs of organisms and will investigate the diversity of life. ***DISSECTION OPTION***

Co-requisite: *Algebra 1 CP*

BIOLOGY CPE

This College Preparatory Enhanced course provides the student with an in-depth study of the life sciences. Biological principles and concepts are studied using the inductive approach and laboratory investigations allow students to explore the relationships between the principles and applications of biology. Topics of study are organized by interactions, foundation and interactions, development, and diversity of life. ***DISSECTION OPTION***

Co-requisite: Algebra 1 CPE or Geometry CPE

BIOLOGY H

This course highlights molecular biology and focuses on structures such as cells and genes, and on the processes that occur within. Extensive student laboratory work requires strong experimental reasoning and analysis skills. The rigorous treatment of biochemistry in this course requires that a student possess a strong commitment to the study of science. ***DISSECTION OPTION***

Prerequisite: Chemistry

ADVANCED PLACEMENT BIOLOGY

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. This course requires that 25 percent of the instructional time be spent in hands-on-laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. It is expected that students in this course will take the AP exam in May.

DISSECTION OPTION

Prerequisite: Biology and Chemistry, CPE or H

ANATOMY AND PHYSIOLOGY CPE

This course provides students with an opportunity to increase their understanding of the principles of cytology, the fundamentals of biochemistry, human genetics, an overview of the major systems of the human body, and man's relationship with the environment. Extensive laboratory work will allow the students to investigate the major concepts presented. ***DISSECTION OPTION***

Prerequisite: Biology and Chemistry

CONCEPTUAL PHYSICS CP

This College Preparatory laboratory-based course provides a fundamental understanding of physics principles and concepts. Students will explore the nature of matter and energy and how their interactions are essential to an understanding of the physical universe. This course provides students with a strong conceptual understanding of the how and why things move, conservation laws, electricity and magnetism, and wave behaviors and applications. The focus for this class will be to help students make connections between their everyday world and the concepts of physics through a laboratory-based approach.

Prerequisite: Algebra 1 CP and Geometry CP

PHYSICS CPE

This College Preparatory Enhanced physics course provides the opportunity for students to acquire an in-depth study of physics principles and concepts. It is designed to highlight the physics needed in future science studies. Students will analytically study physics principles and learn the problem-solving techniques that are widely used in science and related disciplines. Fundamental principles,

including the study of motion, forces and energy, system interactions, electricity and magnetic effects, electromagnetic wave behaviors and applications are developed. The major concepts, basic vocabulary, and intellectual and laboratory skills expected in any college preparatory physics course are included. In addition to numerous laboratory experiences, there is an emphasis on problem solving, physical and mathematical modeling, research methods and experimental techniques.

Co-requisite: Algebra 2 CPE

ADVANCED PLACEMENT PHYSICS 1

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course requires that 25 percent of the instructional time will be spent doing inquiry-based investigations that provide students with opportunities to apply the science practices. It is expected that students in this course will take the AP exam in May.

Prerequisite: Biology and Chemistry, CPE or H

Co-requisite: Algebra 2 CPE

ADVANCED PLACEMENT PHYSICS 2

AP Physics 2 is an algebra-based, introductory college-level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic energy; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course requires that 25 percent of the instructional time be used for hands-on-laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. It is expected that students in this course will take the AP exam in May.

Prerequisite: Physics CPE or AP Physics 1; Co-requisite: Precalculus CPE

SELECTED TOPICS IN PHYSICS H

This course is an extension of a first-year physics course. It is algebra-based and explores topics such as fluids, thermodynamics, optics, and modern physics through inquiry-based learning and hands-on laboratory work. This course provides an alternative to AP Physics 2 as an opportunity for students to extend their physics studies.

Prerequisite: AP Physics 1 or Physics CPE; Co-requisite: Precalculus CPE

ADVANCED PLACEMENT PHYSICS C

This second-year physics course provides calculus-based college level instruction. There are investigations and discussion in advanced topics in mechanics, electricity, and magnetism. It is based upon the calculus "Course C syllabus" of the Advanced Placement Program of the College Board. It is expected that students will take the AP Physics Level C examination in May.

Prerequisite: One year of any level Physics

Co-requisite: Calculus

ANIMAL STUDIES CP

This course develops the thesis that behavior in all animals has evolved as an adaptation of survival of the species. Behaviors that are universal among all animal species, including humans, are stressed and the mechanisms that species use to carry out the behaviors common to all are observed. The diversity and interactions of animal life is explored and studied as are the cultural beliefs regarding an animal's role in our society.

ASTRONOMY CP

Space...the final frontier. This is an introduction to astronomy, mainly descriptive, with minimal mathematics. Topics will include what the ancients noticed in the heavens: characteristics and motions of the Earth, moon, planets and other objects of the solar system, sun, stars, and galaxies. Students will use tools for discovery: telescopes, spectra, radar, parallax, and other methods. Current ideas about the origin, present state, and possible future of the universe will be presented. Aspects of telescope design are given. There will be demonstrations, hands-on activities, and individual projects and presentations. If a student desires, these projects can explore deeper mathematical and technical aspects of astronomy.

CONTEMPORARY ISSUES IN SCIENCE CP

This course investigates the science behind today's headlines and is driven by student interests. Students will also complete independent and/or group research projects. Students discuss, research, and make presentations on timely topics from varied media sources.

ENTERTAINMENT & SCIENCE CP

This course is designed to explore the scientific concepts presented in modern entertainment such as film, theater, fiction, and music. The course will include the examination of current science-based documentaries, popular movies, and a variety of other media. Student research on related topics may include science fiction, stunts, lighting, superheroes, etc. Students will examine and evaluate information as it is presented in the media to analyze and form conclusions about accurate representation of science information. This course will include research, discussion, and several short projects.

Co-requisite: Biology

ENVIRONMENTAL SCIENCE CPE (BCC BIO-108)

Environmental science is an activity-based course designed to help students understand the interactions between the different elements of the environment. The course will also make the students aware of environmental problems on both local and global levels. The activities will include conventional laboratory exercises, workbook exercises, and projects. Several activities will be performed outdoors on the school grounds. The laboratory-based course will deal with environmental history, science systems, biodiversity, biogeography, ecology, population dynamics, use of resources, types of pollution and the disposal of waste. Due to the fact that environmental science is an integrated science, students must have satisfactorily completed a biology course and a chemistry course. Students will be evaluated through the use of examinations, lab work, lab behavior, written lab reports, and projects. This course may be taken as part of the Dual Enrollment program for credit through Bergen Community College – BCC BIO-108 (4 Credits).

Co-requisite: Physics.

FORENSIC SCIENCE CPE

This laboratory-based course provides an introduction to the science behind crime detection and analysis. Students take on the roles of crime scene investigators, scientists, and medical examiners to collect and evaluate evidence in a problem-solving environment. Scientific principles and investigative tools and methods from multiple disciplines of science and technology are utilized. The techniques used in evaluating physical evidence and laboratory techniques currently employed in forensic investigation are applied to the study of: Serology and blood pattern analysis, microscopic investigation, DNA technology, drug chemistry and toxicology, dentition, hair analysis, fiber comparisons, fingerprints, ballistics, forensic anthropology, entomology, forgery, and computer crimes. *Prerequisite: Chemistry and Geometry*

HORTICULTURE CP (BCC HRT-102)

The topics examined in this course will focus on research, work outdoors and in the greenhouse, and student projects, which include: plant propagation, greenhouse maintenance, growing special plants, study of soil, flower arranging, study of terraria, marketing florist products, plant identification and landscape design. This course may be taken as part of the Dual Enrollment program for credit through Bergen Community College – BCC HRT-102 (4 Credits).

Prerequisite: Biology

MARINE SYSTEMS / OCEANOGRAPHY CP

Marine and freshwater aquatic science extends the study of Biology and Chemistry to the living and non-living factors of the aquatic realm, which are explored through various freshwater and marine ecosystems such as streams, lakes, rivers, coral reefs, sandy shores, deep sea, open-ocean, and kelp forests. This laboratory-based course will explore these ecosystems by investigating the successful adaptations of aquatic life (fish/sharks, mammals, reptiles, birds, invertebrates, and plants) to withstand the non-living elements (currents, tides, ocean seafloor, and seawater composition) that form each ecosystem. The impact of humans on aquatic ecosystems and the necessity for marine conservation are also examined. Laboratory investigations and other hands-on activities are used to enhance understanding of topics. ***DISSECTION OPTION***

Prerequisite: Biology and Chemistry

SCIENCE SEMINAR H

This seminar-based course will explore scientific areas of student interest through investigation and research. Current findings in medicine, health, materials, energy, engineering, and creation of new products will be examined. Students will research real-world scientific problems through seminar style research, presentations, and thoughtful discussions.

Prerequisite: Biology H

SPORTS SCIENCE CP

This course examines current trends in health and fitness as students explore real world situations, sports related science careers and the impact of diet, exercise, and injury management for athletes. Special topics such as the development of food products, diet management for athletes, common sports injuries, prevention and equipment, and treatment options will be investigated. The overall wellness for athletes in sport will be examined through the lens of science in sport.

Co-requisite: Physics.

STEM CHALLENGE LAB CPE

Perform experiments like the great inventors of the past and challenge yourself to solve real-world problems in new situations. Students will integrate STEM (science, technology, engineering, and mathematics) skills to make and create models and inventions like the scientific pioneers and work on STEM challenges of their own through engineering and design projects.

UNIVERSITY PROGRAM: SCIENCE, MEDICINE, AND RESEARCH

NINTH GRADE

UP - SAT BIOLOGY H

The topics covered in the course are identical to the Biology H course. However, University Program students will emphasize extended laboratory investigations and learning assessments linked to the SAT College Board Biology Examination, which will be taken in June by all students in this class. There is a special emphasis on developmental Biology and molecular principles.

DISSECTION OPTION

TENTH GRADE

UP - SAT CHEMISTRY H

This course introduces the same knowledge, skills, and experiences as the Chemistry H course. Additional time is allotted for topics and labs which are unique to the SAT Chemistry curriculum, such as laboratory preparation of gasses and identification of industrial chemicals and processes. Time is also given for practice with question formats from the SAT Chemistry test, which will be taken in June by all students in this class.

TENTH GRADE

UP - HUMAN ANATOMY H

Students will examine the structure and functions of various systems of the human body. This includes the skeletal, reproductive, muscular, digestive, respiratory, nervous and circulatory systems. In addition, the human life cycle will be examined considering psychological tasks, biological changes, typical diseases and medical issues. ***DISSECTION OPTION***

ELEVENTH GRADE

UP – ADVANCED PLACEMENT PHYSICS 1

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. It is expected that students in this course will take the AP exam in May.

ELEVENTH GRADE

UP - BIOMECHANICS H

This course focuses on concepts related to the macrophysics end of the human body. Basic anatomical concepts and physiological data will be used with a quantitative analysis of how the body works. This course will include basic medical and physics terminology to study the mechanics of the static body, the body in motion, mechanical properties of the materials of the body, acoustics and sound waves in hearing and speaking, and optics of eyes and vision.

ELEVENTH GRADE

UP – SCIENCE RESEARCH SUPA H (SUPA URP-150)

This course develops the skills and methods needed to successfully conduct academic research. Review and training in the research process, specialized equipment (computer lab probes, spectrophotometers, etc.), and statistical data analysis is presented during the first half of the course. The research process is reinforced by investigative labs, summarized by lab reports using academic writing. The second half of the course focuses on critical reading and presentation skills. Trips to area college science fairs are scheduled. A mini research topic is assigned, culminating in students presenting their project to the school community and/or public via both poster and information sessions. This course may be taken as part of the Dual Enrollment program for credit through Syracuse University - SUPA URP-150 (4 Credits).

TWELFTH GRADE

UP - MEDICAL ISSUES H

Case studies in medical law and medical ethics will be examined. There will be frequent debates on current issues such as genetic screening and engineering, prolonging life by artificial means, and informed consent before medical research or operations. Position papers will be required after major issues are summarized and opinions are compared and contrasted.

UNIVERSITY PROGRAM: ENGINEERING AND DESIGN

NINTH GRADE

UP - BIOLOGY H

This course highlights molecular biology and focuses on structures such as cells and genes, and on the processes that occur within. Extensive student laboratory work requires strong experimental reasoning and analysis skills. The rigorous treatment of biochemistry in this course requires that a student possess a strong commitment to the study of science. ***DISSECTION OPTION***

NINTH GRADE

UP - ENGINEERING RESEARCH METHODS H

Students will explore the skills and practices used by scientists and engineers through science laboratory work and by designing solutions to engineering problems. Mathematical, graphical, statistical, and analytical skills are emphasized in the context of physical science concepts and principles. The laboratory work will introduce measuring tools and instrumentation used by scientists and engineers and technical writing will be emphasized.

NINTH GRADE

UP - INTRODUCTION TO ENGINEERING DESIGN H

This course teaches problem-solving skills using a design development process. Students will be introduced to CAD (computer aided drafting) with special emphasis placed on problem solving and product design development. Skills acquired in this course will be applied to future courses.

TENTH GRADE

UP - CHEMISTRY H

This laboratory-based chemistry course provides the student with an opportunity to study how the properties of and interactions with matter are consequences of their structure. The principles of chemistry are studied quantitatively and the student's mathematical and analytical skills are strongly

utilized throughout this problem-solving course. Extensive student laboratory work will progress to a high level independence in experimental reasoning and analysis. Topics in this course will emphasize problem solving activities and engineering applications in chemistry.

TENTH GRADE

UP – ENGINEERING, MATH, AND COMPUTER APPLICATIONS H

In this course, students will study mathematics, statistics, and computer skills and apply them to scientific and engineering applications. Students will extend their knowledge of mathematical concepts to real-world engineering challenges. Extensive use of *Microsoft Excel* will allow them to organize data in a professional way, as well as analyze data to seek patterns and relationships. Basic programming knowledge will be introduced by using both *Excel's* pre-made functions, as well as an introduction to the programming language *Python*. Programming will focus on the use of common *Python* data types, loops, and conditional statements. Computer data collection and math analysis will be central to this program.

TENTH GRADE

UP - MATERIALS AND PROCESSES H

In this course students will be working with various basic machining tools and explore the areas of plastics and composites as well as wood and metallurgy. Students will be introduced to the “*eight-step designing loop*” through the use of technology learning activities (TLA). Laboratory work and problem-solving activities will include working with lightweight metals, woods, and plastics. Students will be introduced to the *mass production process* both in and out of the classroom. Field trips to local manufacturing plants are also a part of this program. This applied methods course is related to both physics and engineering.

ELEVENTH GRADE

UP – ADVANCED PLACEMENT PHYSICS 1

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course requires that 25 percent of the instructional time will be spent doing inquiry-based investigations that provide students with opportunities to apply the science practices. It is expected that students in this course will take the AP exam in May.

ELEVENTH GRADE

UP - PRINCIPLES OF ENGINEERING H

This course highlights the various professions of engineering. Students will realize that the role of engineers is to apply their knowledge of science and technology to meet societal needs and solve its problems. The course will give students exposure to engineering methods, engineering problem solving concepts, and the basic tools of engineering. The engineering profession is examined, along with the approach to problem solving, the tools of engineering, and constraints on the engineering practice. Special emphasis will be placed on the engineering design process as well as engineering economics. Guest speakers and field trips will be a part of this program as well as laboratory-based activities.

ELEVENTH GRADE

UP – DIGITAL ELECTRONICS H

This project-based course is designed to give students an introduction to electronics and basic theory. Students will be introduced to basic electronics technology through hands-on project work in the examination of analog and digital devices and circuits that are used to build computers and other digital equipment. The purpose of this course is to provide students with a sound understanding of digital principles and practices.

ELEVENTH GRADE

UP - COMPUTER SCIENCE FOR ENGINEERS H

This course is designed so students will code fluently in *Python*, a high level, object-oriented, interpreted programming language, in order to gain skills relevant to science, mathematics, mechanical, electrical, and computer engineering. Students will learn basic *Python* syntax and debugging skills and the building blocks of algorithms: sequence, selection, and iteration. They will use functions to make their code reusable, modular, and easier to understand. And they will learn to use a variety of data structures, including strings, lists, tuples, and dictionaries to store and manipulate large amounts of information. Programming will be used to solve a wide variety of engineering problems and applications. This class involves integration with UP Digital Electronics to complete a final engineering project that combines skills learned in both classes.

TWELFTH GRADE

UP - ENGINEERING RESEARCH SEMINAR H

This University Program may require independent effort and independent study outside the school building. Students will complete a research design project in an area of choice and/or become involved in an academic design competition. Some projects and/or design competition may require students to work in small teams of 2 and 3 students. Students will be expected to have contact with mentor engineers, complete a written log and/or journal of their research/project work and present their project for an evaluation.

TWELFTH GRADE

UP - ADVANCED PLACEMENT PHYSICS C

This is the capstone Science course for UPED students. It is a second-year physics course that provides calculus-based college level instruction. There are investigations and discussion in advanced topics in mechanics, electricity, and magnetism. It is based upon the calculus “Course C Syllabus” of the Advanced Placement Program of the College Board. It is expected that students will take the AP Physics Level C examination in May.

Co-requisite: Calculus

TWELFTH GRADE

UP – SELECTED TOPICS IN PHYSICS H

This course is algebra-based and explores topics essential to engineering, such as fluids, thermodynamics, optics, and modern physics. It is intended as an extension of AP Physics 1 studies and will complement the AP Physics C curriculum. This course also provides an opportunity for students to extend their physics studies to be prepared for future engineering studies.

SOCIAL STUDIES DEPARTMENT

REQUIRED CORE COURSES

WORLD CIVILIZATIONS CP, CPE

This required survey course in World History for ninth grade students begins with the First Global Age in the 14th century and continues to the present. Students study historic, social, economic, geographic, and political events of the Renaissance, Reformation, explorers, Enlightenment, Revolutions, and Imperialism. A significant emphasis is given to the events of the 20th century including World Wars and regional conflicts, human rights issues, the arts, the impact of technology, and the economy in contemporary Asia, Africa, Latin America and Europe. Students in World Civilizations CP develop their skill of chronological thinking, geography, and decision-making. Students in World Civilizations CPE develop their skills in reading, writing, working with maps and charts. *The importance of organizational habits and note-taking skills in the study of history is emphasized.*

WORLD CIVILIZATIONS H

This is a survey course in World History for ninth grade students with excellent reading and writing skills. This course begins with the Emergence of the First Global Age in the 14th century and continues to the present. Students will learn about the importance of religion and philosophy, the Enlightenment, Revolutions, and imperialism. A significant emphasis is given to the events of the 20th century including World Wars and regional conflicts, human rights issues, the arts, the impact of technology, and the economy in contemporary Asia, Africa, Latin America and Europe. Students in this course develop their skills of critical and chronological thinking, analysis and interpretation, geography, research, and decision-making. Students use primary documents, express their views in essays, editorials, and debates, and are expected to work independently in their study and reading about historical events.

UNITED STATES HISTORY 1 CP, CPE

This course, required of all tenth grade students, develops the history of our country in a combination of chronological and topical approaches. This course begins with the Colonization and Settlement of America and continues to the development of industrial America in the late 19th century. Although the subject matter for the different academic levels is the same, differences in the courses lie in the depth, quantity, and difficulty level of materials that are used. Materials may include the use of a basic text, supplemental texts, primary materials such as original documents and speeches, audiovisual materials, simulations, newspapers and periodicals. Differences may also lie in the emphasis that is given to critical thinking, consideration of opposing opinions and interpretations of history, and analysis of situations.

ADVANCED PLACEMENT UNITED STATES HISTORY 1

This is the first course in a two-year sequential college level course providing an in-depth study of American historical development in the areas of social, cultural, political, economic, intellectual, and diplomatic history. The historical eras included in this course begin with Native American and continue through the Gilded Age to the end of the 19th century. This sequential course gives students a thorough grounding in relevant facts, and scaffolds from these facts to examine their context and significance. The students read historical materials analytically and critically, with historical evidence and interpretations, and arrive at conclusions on the basis of informed judgment.

College textbooks provide the background, but extensive use is made of more specialized studies in other printed materials. Students gain experience in taking notes from both printed sources and lectures, writing essay examinations, and in writing college level historical research papers using various reference sources. This course also uses primary sources, requires students to do independent research, includes assignments on expository writing, and the development of a thesis. Successful completion of this course is required to register for AP United States History 2.

UNITED STATES HISTORY 2 CP, CPE

This course, required of all eleventh grade students, develops the history of our country in a combination of topical and chronological approaches. This course begins with the Progressive Era and continues through to present day. Although the subject matter for the different academic levels is the same, differences in the courses lie in the depth, quantity, and difficulty level of materials that are used. Materials may include the use of a basic text, supplemental texts, primary materials such as original documents and speeches, audiovisual materials, simulations, newspapers, and periodicals. Differences may also lie in the emphasis that is given to critical thinking, consideration of opposing opinions and interpretations of history, and analysis of situations.

Prerequisite: U.S. History 1 CP, CPE

ADVANCED PLACEMENT UNITED STATES HISTORY 2

In this second year of the two-year sequential college level course, providing an in-depth study of American historical development in the areas of social, cultural, political, economic, intellectual, and diplomatic history. The study of American historical development begins at the turn of the 19th century and continues through contemporary American society. This sequential course gives students a thorough grounding in relevant facts, and scaffolds from these facts to examine their context and significance. The students read historical materials analytically and critically, with historical evidence and interpretations, and arrive at conclusions on the basis of informed judgment. College textbooks provide the background, but extensive use is made of more specialized studies in other printed materials. Students gain experience in taking notes from both printed sources and lectures, writing essay examinations, and in writing college level historical research papers using various reference sources. Students must be able to express themselves clearly and concisely, and possess all necessary skills in the use of library and technology resources. It is expected that students in this sequence take the Advanced Placement Examination. This examination, given in May, provides an opportunity for students who later attend a participating college to receive appropriate credit and placement.

Prerequisite: AP United States History 1

UNITED STATES HISTORY 2 CPE

FAIRLEIGH DICKINSON UNIVERSITY (FDU) MIDDLE COLLEGE PROGRAM

This U.S. 2 CPE section meets the district requirement for a second year of American History. Students who successfully complete this course may receive three college credits towards FDU or another accepting university; tuition is paid directly to FDU by the student's parents. This course utilizes both a topical and chronological approach to the study of twentieth century America. Major topics include: the emergence of the United States as a world power, World War I, life during the 1920's, the Depression and the New Deal, World War II, post-war international relationships, themes in the 20th century American political and economic life, and issues for the 21st century. Additional themes like, the nature of history, historical study skills, historiography, and research writing make up the course requirements. Students receive library privileges at Fairleigh Dickinson University and will use primary sources in addition to the standard textbook.

Prerequisite: U.S. History 1 CP, CPE

AMERICAN STUDIES – US HISTORY 2 CPE

American Studies is an interdisciplinary course that satisfies the requirements of United States History 2 and English 3. A coordinated thematic curriculum is based on the diverse experiences of the people of the United States in realizing the American Dream. Students who elect to take the American Studies program receive separate grades and five credits from each department. The American Studies course explores connections linking the American experience to four questions: 1) What is the American Dream? 2) Who is entitled to the American Dream? 3) How is the American Dream evolving? 4) Should the American Dream apply to the world? The study of literature, art, music and film brings life and humanity to the historical experience, while historical documents and social history give perspective to the human experience. During each marking period all students participate in planned educational activities (field trips, films, debates, speakers, simulations, etc.) relating to the coordinated themes taught in literature and history. Students are expected to write reflective and analytical papers, create multimedia projects, maintain a writing portfolio, and engage in research projects/papers in a literary and historical context. Critical thinking and problem solving skills explore the relationship between the humanities and historical issues. America's role as a world power is the theme for the evolution of America's foreign policy in the twentieth century.

Prerequisite: U.S. History 1 CP, CPE

ELECTIVE COURSES:

ANTHROPOLOGY CPE

This full-year elective course for eleventh and twelfth graders deals with the scientific study of humankind and the development of cultures both past and present. Included in this course are units on physical anthropology, archaeology, and socio-cultural ethnography. This course concerns the human experience from prehistoric times to the present, from the simple hunter-gatherer tribes more complex cultures. Cultural patterns, structures and functions are evaluated, and the focus is global and comparative. Cultural case studies are used to supplement learned anthropological data and to bring about a better understanding of the behavior of man and society. Actual field experience in archaeology is included during the year.

CURRENT EVENTS: Investigating Modern Media CP

Current Events: Investigating Modern Media will introduce students to current events; events studied will focus on political, social, and economic events impacting local, state, national, and global communities. Specific topics of study will align to these themes but will change based on current context and student interest. Students will also gain greater understanding of media influence on public knowledge of events. This will lead to student evaluation of various media outlets. Although this course will be offered at the CP-level, the instruction will be differentiated to accommodate various learning styles and reading levels; students at the CP, CPE, and Honors/AP level should feel comfortable in this course.

ECONOMICS CPE

This full-year elective course for eleventh and twelfth graders seeks to provide a basic understanding of economics through the study of how the economy works today. Topics include supply and demand, the banking system, the national and global economy, monetary and fiscal policies, personal finance, investment, insurance, pensions, and the real estate market. The stock market is also covered in this course with an emphasis on how stock prices are determined, why stock prices change, how a stock exchange functions and the impact of the stock market on the overall economy. Opportunities are provided for students to learn economic terms, principles, laws,

calculate percentages and interest rates, interpret graphs, analyze statistics, and determine personal income taxes. High school level textbooks are used in this course, unlike the AP Economics course that uses a college level textbook. This course should provide an excellent background for students seeking to take economics and business courses in college.

ADVANCED PLACEMENT ECONOMICS

This full-year elective course for eleventh and twelfth graders emphasizes the theoretical study of economics and provides insight into many social and political problems in the United States and the world. This course provides an understanding of what economics is all about. Relating theory to history increases the student's understanding of the subject. Topics include: inflation, recession, depression, the development and workings of the free market system, monetary and fiscal policy, economic indicators, supply side economics and current economic issues. Skills such as the interpretation of statistics and graphs, translating economic statistics into graphs, evaluating various types of investments such as stocks, bonds, and money-market funds are studied. Students are given the opportunity to develop an approach to decision-making that is less emotional and more rational using cost-benefit analysis. It is expected that students take the AP exam. This exam, given in May, provides an opportunity for students who later attend a participating college to receive appropriate credit and placement.

GEOGRAPHY CPE

In this full-year elective for tenth, eleventh, and twelfth graders, students are encouraged to develop an understanding and appreciation of the interrelationship between geography, people, and the environment. Besides a study of maps, landforms and climate, culture and economics are emphasized. Opportunities are provided for individual and group activities so that students will be able to gain practical experience in the discovery of geographic concepts and principles.

LAW AND HUMAN RIGHTS CPE

This full-year elective for eleventh and twelfth graders includes semester topics on the study of criminal and civil law and the study of human rights issues. Knowledge of the law is not only fascinating but a necessity in today's complex society. The examination of our criminal and civil laws will emphasize rights and responsibilities. Students will also examine the nature of crime, problems of prison administration and the rehabilitation of prisoners, study the criminal justice system, jury trials, and define basic legal terms and concepts. The part of the course on human rights examines many facets of human nature and the basic questions about the role and importance of moral responsibility in today's turbulent world. The focus of this course is an examination of various genocides (Holocaust, Armenian, Bosnian, Cambodian, Rwandan, Sudanese). Students use primary source materials in their examination of these important questions. The course includes examples of violations of human rights in contemporary times in such places as Russia, South Africa, Afghanistan, Cambodia, Central America, and Serbia. Problem analysis, critical thinking, social criticism, and decision-making skills are emphasized. Students will discover how problems in one country affect other nations.

All students will study the Holocaust and other examples of genocide in U.S. History 2.

ADVANCED PLACEMENT MODERN EUROPEAN HISTORY

This course is recommended for tenth, eleventh, and twelfth graders who are planning to attend a competitive college. This is an important college level course where students are exposed to the people, ideas, and events that are part of the rich traditions of European History. The historical material in this course parallels the historical events in American history and may be taken at the

same time as U.S. History 1 or 2. The course places a special emphasis on the literary, artistic, and philosophical contributions to world history. Students will develop the skills of Internet research; participate in classroom simulations and debates, and complete creative and expository writing assignments. Students will enhance their skills of research and analysis through the reading of primary documents relating to the time period from the Renaissance to the end of the twentieth century. The study of European History provides an understanding on current issues in foreign policy and the world economy. It is expected that students take the Advanced Placement Examination. This examination, given in May, provides an opportunity for students who later attend a participating college to receive appropriate credit and placement.

PSYCHOLOGY CPE

This full-year elective for eleventh and twelfth graders presents the science of psychology. In each section, the student is offered greater insight into the motivations, thought patterns, emotions and behaviors of human beings. Students are expected to actively participate in classroom discussions and activities. Topics include comparative psychology, the structure and function of the brain, normal and abnormal childhood development, adolescent behavior, neuroses (phobias, manias, depression, anorexia, and bulimia), psychoses (schizophrenia, manic depressive, psychosis, etc.), and dream analysis.

ADVANCED PLACEMENT PSYCHOLOGY

AP Psychology is a college level course designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students will be exposed to the psychological facts, principles, and phenomena associated with each of the major fields within psychology and learn about the methods psychologists use in their science and practice. The course of study prepares students for the AP exam in May. Topics include the schools of psychology, biological bases for behavior, developmental, abnormal, and social psychology, learning, motivation, perception, states of consciousness, personality, and psychological disorders. Students are expected to take the AP exam and need to have demonstrated competency in reading, writing, and research in required core academic courses.

Prerequisite: This course is open only to seniors who have previously taken Psychology CPE and maintained an A or B average. Seniors who have not taken Psychology CPE as a prerequisite must have the approval of the Social Studies Subject Supervisor to register for the course.

SOCIOLOGY CPE

This full year course for eleventh and twelfth graders is designed to afford students insight into their role in society. The course is divided into four major conceptual areas: the individual and our various roles and relationships in society, the deviance and inequities in our society and how that inequity negatively affects us all, the social institutions which impact our development and daily lives, and a global perspective of social change. Relevant sub-topics included in the scope of the course are: social interaction, abnormal deviant behavior, the prevalence of prejudice and discrimination, social class, the role of the family and religion in America, collective behavior, social movements and gender roles. Students are encouraged to look beyond their own personal existence and see society from a broader, multifaceted perspective. The course is characterized by a high level of student participation and sociological "fieldwork" in the form of survey design, observational studies and social experiments. The students are encouraged to develop sociological insights, impression management skills and a mindfulness of the sociological perspective.

SPORTS HISTORY CPE

This full-year elective course for eleventh and twelfth graders is designed to have students examine the place sports hold in American life. Students will focus on sports as a reflection of our social, political, and economic make-up and its ability to effect and shape our institutions. Particular attention will be given to social class, race and ethnicity, gender, labor issues, community, technology and commercialization, and the media. This course examines major ideas and events in the history of sports. Course material will be based on primary, secondary, audio and visual resources. Instructional practices will be differentiated to be inclusive of all academic levels.

YOUR WORLD: Community Problem Solving CP

Inquiry-based learning actively (IBL) involves students in their own learning. IBL is based on 5 major tenets: ask questions, investigate solutions, create new knowledge, discuss discoveries, and reflect on new knowledge. Rather than presenting facts, IBL uses student inquiries, questions, interests, and curiosities to drive learning. This allows for greater student engagement, makes learning more relevant, and encourages students to develop critical thinking skills. Practice will focus on the student as a self-directed learner and the students' ability to synthesize, interpret, and evaluate information. School and community-based problems have the potential to be solved as students learn about the importance of being global citizens.

Prerequisite: Students enrolled in this course must earn a grade of C- or higher in their World Civilizations course.

UNIVERSITY PROGRAM: INTERNATIONAL STUDIES AND BUSINESS

NINTH GRADE

UP – WORLD HISTORY H

This International Studies and Business University Program core course prepares students with an understanding of global history through the use of basic historical reading, writing, and research techniques. Students will investigate historical topics and prepare multimedia presentations. All historical fields: political, diplomatic, intellectual, cultural, economic, and social are covered.

NINTH GRADE

UP – CRITICAL GLOBAL ISSUES H

This International Studies and Business course introduces students to the knowledge, research, and debate of critical global issues. The course will focus on the following contemporary global problems:

- Environment
- Urbanization
- Global Health

Students explore these topics both inside and beyond the classroom. The course may include visiting speakers, field trips, research, multi-media presentations, and position papers. Students will research and debate issues relating to cost-effectiveness, public policy, funding, and methods of enforcement.

TENTH GRADE

UP – GLOBAL FINANCIAL MARKETS H

This course uses an interdisciplinary approach to study and analyze the interaction between investment markets in the economy. Students research the impact of economic news reports on market trends. Students follow the short and long term trends of the stock, bond, commodity, and real estate markets. Projects include managing a stock market portfolio, bond fund, commodities, currency exchange rates, and in-class presentations.

ELEVENTH GRADE

UP – GLOBAL ECONOMY: TRADE, POVERTY, AND WEALTH H

Today's global economy is faced with the social and political issues of the "great divide" between the developed and developing countries. This course introduces students to these issues through the study of macroeconomic principles relating to trade, fiscal policy, employment, and banking. Students will study the following core themes:

- Causes and Effects of World Poverty
- International Trade Case Studies
- The Creation of Wealth

Students will research and analyze topics relating to the environment, World Bank, the World Trade Organization, regional trade agreements, and entrepreneurial markets. Presentations emphasizing debate, technology, position papers, case studies, and analytical thinking are required.

TWELFTH GRADE

UP – MANAGERIAL BUSINESS DECISIONS AND ACCOUNTING H

Students will study executive business, management, and decision-making accounting. They will continue to develop problem-solving and analytical skills in this course. The principles of financial and executive managerial accounting are followed by case studies relating to specific corporations. Students will study the budget process, analyze corporate balance sheets, apply microeconomic principles of marginal costs and revenues, explore case studies of business decisions, and present recommendations based on a field experience.

TWELFTH GRADE

UP – 21ST CENTURY ISSUES-INTERNATIONAL LAW AND HUMAN RIGHTS H

Technology and globalization are impacting our society and the legal principles of different countries and institutions. This interdisciplinary University Program course investigates constitutional and common law issues affecting business, society, government, and the diplomatic community. The creation of the new International Criminal Court, disputes affecting maritime trade and outer space, nationalistic movements leading to the desire for independent states, and intellectual property rights are examples of topics researched, debated and discussed in this project oriented course.

Students will study the following core themes:

- Principle of Law and Jurisprudence
- Evolution of International Law
- The UN and the International Community
- Human Rights

Presentations include a case study on human rights issues, simulated Security Council meetings, debates, and moot courts. Research skills include analyzing U.N. resolutions, U. S. and World Court decisions, and the use of professional journals

VOCATIONAL EDUCATION

The Central Bergen County Technical Educational Center in Paramus functions as a shared-time facility cooperating with other Bergen County high schools.

The school provides one-half day of vocational and technical career training, which is coordinated with the student's high school schedule. All academic classes and extra-curricular activities are taken in the "home" high school.

Any high school student, male or female, may apply through the guidance office of his/her high school. The guidance staff will process applications for submission to the school. Students are admitted at the tenth, eleventh, and twelfth grade levels. Because of state licensing requirements, Cosmetology students are enrolled at the twelfth grade level.

Since all the career programs are planned for a three-year training period, preference of admission is given to tenth grade applicants. Transportation is arranged by the local high school. The following career majors are available:

- Auto Body:** Development and applications of skills will be made in repairing damaged frames, panels, and parts of the automobile as well as finishing and painting.

- Auto Mechanics:** Beginning with bench work and mounted engines the student will develop the skills required for working on all the various systems of the automobile. The goal will be competency in diagnosing trouble, servicing, and repairing of automobiles in the "live work" situation.

- Auto Specialties:** Students will receive intensified bench work in dismounting automotive power train components. The goals will be to develop the skill required to specialize in major engine and transmission repair.

- Cosmetology:** The student will develop all the techniques of hair and scalp care used in the operation of a beauty shop. Successful completion of this course will qualify students for taking the state board licensing examination for beauty operators.

- Commercial Baking:** This course provides students with the basic background in all areas of baking. Students will engage in the development and production of bread, yeast products, pastries, cookies, and cakes. The development of safety and sanitary practice is stressed.

- Commercial Foods:** In this program students prepare for careers in food preparation and service. Students learn preparation of a wide variety of soups, entrees, and salads, as well as nutritional and dietary guidelines. The course also stresses ordering of stock, inventory, catering and butchering. Students are schooled in the professional restaurant manner. Dining room management is also integrated into the curriculum.

·**Masonry:** This course will stress familiarization with various building materials including brick, block, tile, concrete and mortar, and the skills required for installation of these materials. The course will prepare students for positions in the construction industry.

·**Printing:** The Print Shop has complete facilities for offset reproduction. Students acquire skills in the following: Graphic Arts, camera, offset stripping and plate making, press operation, and bindery. The student will be working in assigned projects. Upon graduation, the student will be qualified to work in the commercial, quick copy, or in plant print shop.

·**Retail Merchandising:** This program prepares students for employment in a wide variety of retail jobs.

·**Small Animal Care:** In this shop, students train for full careers as a kennel person, receptionist (grooming shops, kennel or veterinary hospitals), groomer, dog trainer, show handler, pet shop operator, or animal care technician. Students progress from the preliminary tasks of maintaining runs, cages, equipment and supplies, to the more advanced care, feeding, breeding, dog clipping, training and related laboratory work, as well as pet shop operation.

WORLD LANGUAGE DEPARTMENT

Course Descriptions

World Languages offered in the RIH District include Chinese, French, Italian, and Spanish. Two years of Chinese is offered at the Honors level and four-year World Language sequences are available in courses offered at the CPE/Honors/AP level in French and Italian, and at the CP/CPE/Honors/AP level in Spanish.

Both Honor and CPE courses are available in French, Italian, and Spanish starting with the third year of study and will run depending upon course enrollment. Placement in an Honors course is contingent upon teacher recommendation and the Master Schedule. Students in an honors course will follow a rigorous course of study requiring higher performance levels in aural-oral and written work. The preparation of oral and written reports will be based on original texts and materials, which are an essential part of the honors program; technology will also be integrated into instruction throughout the language program. Many students in the honors program will eventually take the Advanced Placement examination, which is offered during the spring of the Level 5 AP course.

The method of instruction, in all classes, is a proficiency-based communicative approach, integrating interpersonal, interpretive and presentational skills, creating an environment for implementing meaningful use of the language for “real-life” communicative purposes.

CHINESE

CHINESE 1 H

This is the first course of a two-year sequence. It is designed for highly self-motivated students with an interest in the Chinese language and culture. A principally oral-aural method with intensive drills to develop concurrently the skills of speaking, listening, reading and writing Mandarin Chinese, the most widely spoken dialect in China. An introduction to the Chinese culture will be immersed into daily activities and will be an essential component of the Chinese 1 curriculum. Students who wish to enroll in this course may take it concurrently with other language courses. Communication is the number one goal for the district, meeting the New Jersey Student Learning Standards.

Prerequisite: Students must have a teacher recommendation for placement in the Honors program.

CHINESE 2 H

This is the second course of a two-year sequence. It is designed for highly self-motivated students with a continued interest in the Chinese language and culture. A principally oral-aural communication approach is used to continue the development of speaking, listening, reading, and writing skills in Mandarin Chinese. Also included are studies of grammar, vocabulary, and idiom development, as well as the culture and history of China. Students enrolled in this course will improve their knowledge of the language through presentational, interpretive, and interpersonal modes of communication. Communication is the number one goal for the district, meeting the New Jersey Student Learning Standards.

Prerequisite: Chinese 1 H and students must have a teacher recommendation for placement in the Honors Program.

CHINESE 4 H

This course is only available to those students who are enrolled in Chinese 3H during the 2017-18 school year. It is designed for highly self-motivated students with a continued interest in the Chinese language and culture. In Chinese 4 Honors, there is an increased reinforcement and development of

communication skills already introduced in Chinese 1, 2, and 3 Honors. Additional emphasis is placed on the ongoing development of reading and writing skills, as well as more in-depth presentations of Chinese characters, grammar, vocabulary, and idioms. Students are carefully guided through cultural and historical activities, through increased student usage of Mandarin Chinese. Major emphasis is placed upon learning and using the target language in a cultural context. Students enrolled in this course will improve their knowledge of the language through presentational, interpretive, and interpersonal modes of communication. Communication is the number one goal for the district, meeting the New Jersey Student Learning Standards.

Prerequisite: Chinese 3 H and students must have a teacher recommendation for placement in the Honors Program.

FRENCH

FRENCH 1 CPE

This course is the first course of a four-year sequence. The course is designed for students new to the study of world languages with exciting themes such as authentic foods, daily life, meeting people, shopping and leisure activities. Students will learn interesting aspects about the French culture and will be able to express themselves in presentational, interpretive and interpersonal modes of communication through reading, writing, listening and speaking. Communication with real life situations is the number one goal for the district, meeting the New Jersey Student Learning Standards.

FRENCH 2 CPE

This course is intended for students that have completed the equivalent of French 1 CPE. Students will improve their knowledge about the French culture and will continue to improve their communication skills through presentational, interpretive and interpersonal modes of communication. Students are exposed to weekend activities, entertainment, French cuisine, describing oneself, authentic foods and shopping. There is a continued emphasis to combine reading, writing, listening and speaking into daily lessons and forms of assessments. Communication with real life situations is the number one goal for the district, meeting the New Jersey Student Learning Standards.

Prerequisite: French 1 CPE

FRENCH 3 CPE

This course initiates the intermediate level of study and further develops the five basic skills developed in level one and two French. The students will become more comfortable expressing themselves in the interpretive, presentational and interpersonal modes of communication around themes such as the protection of the environment, the house and home, and travel and summer vacations. Communication in real life situations is the number one goal for the district, meeting the New Jersey Student Learning Standards.

Prerequisite: French 2 CPE

FRENCH 3 H

This course is designed for highly self-motivated students with an interest in the French language and culture. The students will profit from more advanced reading selections and listening practice. Students enrolled in the French 3 Honors course will proceed more rapidly with language structure exercises. The class will be instructed entirely in French. Students in this course will continue to

advance their interpretive, interpersonal, and presentational modes of communication. Communication is the number one goal for the district, meeting the New Jersey Student Learning Standards.

Prerequisite: French 2 CPE and students must have a teacher recommendation for placement in the Honors program.

FRENCH 4 CPE

This course is designed to expose the students to a fourth year of study and to continue to develop an increased awareness of the interpretive, presentational and interpersonal skills through reading, writing, speaking and listening. Emphasis is given to contemporary issues and the vast culture of the French-speaking world; some of the themes include consumer habits, lifestyles, telecommunication, teenage years and media. Communication in real life situations is the number one goal for the district, meeting the New Jersey Student Learning Standards. **This course is not designed to prepare the student for AP French 5.**

Prerequisite: French 3 CPE, H

FRENCH 4 H (BCC LAN-201)

This course is an intermediate/high level course that is designed for those students who have demonstrated a superior aptitude and performance in the development of the major skills: speaking, reading, writing, listening and culture, emphasized in a world languages classroom. The honors course will progress at a brisk pace and emphasis will be placed on the interpretive, interpersonal and presentational modes of communication around exciting themes such as health, family life, city life, university studies and careers. Communication is the number one goal for the district, meeting the New Jersey Student Learning Standards. This course may be taken as part of the Dual Enrollment program for credit through Bergen Community College – BCC LAN-201 (3 Credits).

Prerequisite: French 3 CPE, H and students must have a teacher recommendation for placement in the Honors program.

FRENCH CINEMA, CULTURE, AND CONVERSATION CPE

This course is about the study of the French language and culture, designed to facilitate French conversation through watching culturally authentic film. The themes of the movies represent Francophone countries and parallel the AP exam themes (Contemporary Life, Global Challenges, Science and Technology, Private and Public Identities, Family and Society, and Beauty and Esthetics). Students will watch movies that explore both past and present daily life in a wide variety of themes, genres, and cultural experiences including, but not limited to, events of historical, social, and economic significance. This course is only available for seniors.

Prerequisite: French 3 CPE or French 3 H

ADVANCED PLACEMENT FRENCH 5

This course is an advanced level course, which meets the needs of students that have achieved greater fluency and listening comprehension and wish to refine these skills. Listening and speaking skills are continuously analyzed and evaluated. Reading continues with a variety of authentic selections discussed in French; writing skills are expanded to include analytical and creative formats. Communication through real-life situations such as global challenges, science and technology, contemporary life, and multi-media studies is the number one goal for the district, meeting the New Jersey Student Learning Standards. ****Students enrolled in this course are prepared for and expected to take the AP Examination in French Language.**

Prerequisite: French 4 H and students must have a teacher recommendation.

ITALIAN

ITALIAN 1 CPE

This course is the first course of a four-year sequence, however, enrollment is not restricted to students who wish to complete two years of a world language. The course is designed for students new to the study of world languages. Students will learn exciting aspects about the Italian culture including but not limited to la piazza, la Sicilia and Roma. The students will be able to express themselves in presentational, interpretive and interpersonal modes of communication through reading, writing, listening and speaking activities. Communication in real life situations is the number one goal for the district, meeting the New Jersey Student Learning Standards.

ITALIAN 2 CPE

This course is intended for students that have completed the equivalent of Italian 1 CPE. Students will improve their knowledge about the Italian culture including open-air markets, the role of the family and studying abroad. The students will continue to improve their communication skills through presentational, interpretive and interpersonal modes of communication. There is a continued emphasis to combine reading, writing, listening and speaking into daily lessons and forms of assessment. Communication in real life situations is the number one goal for the district, meeting the New Jersey Student Learning Standards.

Prerequisite: Italian 1 CPE

ITALIAN 3 CPE

This course initiates the intermediate level of study and further develops the five basic skills developed in level one and two Italian. Some cultural aspects discussed are sports and politics. The students will become more comfortable expressing themselves in the interpretive, presentational and interpersonal modes of communication. Communication in real life is the number one goal for the district, meeting the New Jersey Student Learning Standards.

Prerequisite: Italian 2 CPE

ITALIAN 3 H

This course is designed for highly self-motivated students with an interest in the Italian language and culture. The students will profit from more advanced reading selections and listening practice. Students enrolled in the Italian 3 Honors course will proceed more rapidly with language structure exercises. The class will be instructed entirely in Italian. Students in this course will continue to advance their interpretive, interpersonal, and presentational modes of communication. Communication is the number one goal for the district, meeting the New Jersey Student Learning Standards.

Prerequisite: Italian 2 CPE and students must have a teacher recommendation for placement in the Honors program.

ITALIAN 4 CPE

This course is designed to expose the students to a fourth year of study and to continue to develop an increased awareness of the interpretive, presentational and interpersonal skills through reading, writing, speaking and listening. Emphasis is given to contemporary issues and the vast culture of the Italian-speaking world; Communication in real life situations is the number one goal for the district, meeting the students that have achieved greater fluency and listening comprehension and wish to refine these skills. Listening and speaking skills are continuously analyzed and evaluated. Reading

continues with a variety of authentic selections discussed in Italian; writing skills are expanded to include analytical and creative formats. Communication in real life situations is the number one goal for the district, meeting the New Jersey Student Learning Standards. **This course is not designed to prepare the student for AP Italian 5.**

Prerequisite: Italian 3 CPE, H

ITALIAN 4 H (BCC LAN-221)

This course is an intermediate/high level course that is designed for those students who have demonstrated a superior aptitude and performance in the development of the major skills: speaking, reading, writing, listening and culture, emphasized in a world languages classroom. This course will progress at a brisk pace and emphasis will be placed on the interpretive, interpersonal and presentational modes of communication. Communication in real life situations is the number one goal for the district, meeting the New Jersey Student Learning Standards. This course may be taken as part of the Dual Enrollment program for credit through Bergen Community College –

BCC LAN-221 (3 Credits).

Prerequisite: Italian 3 CPE, H and students must have a teacher recommendation for placement in the Honors program.

ITALIAN CINEMA, CULTURE, AND CONVERSATION CPE

This course is about the study of the Italian language and culture, designed to facilitate Italian conversation through watching culturally authentic film. The themes of the movies represent Italy and parallel the AP exam themes (Contemporary Life, Global Challenges, Science and Technology, Private and Public Identities, Family and Society, and Beauty and Esthetics). Students will watch movies that explore both past and present daily life in a wide variety of themes, genres, and cultural experiences including, but not limited to, events of historical, social, and economic significance. This course is only available for seniors.

Prerequisite: Italian 3 CPE, H

ADVANCED PLACEMENT ITALIAN 5

This course is an advanced level course, which meets the needs of students that have achieved greater fluency and listening comprehension and wish to refine these skills. Listening and speaking skills are continuously analyzed and evaluated. Reading continues with a variety of authentic selections discussed in Italian; writing skills are expanded to include analytical and creative formats. Communication in real life situations is the number one goal for the district, meeting the New Jersey Student Learning Standards.

*****Students enrolled in this course are prepared for and expected to take the AP Examination in Italian Language.***

Prerequisite: Italian 4 H and students must have a teacher recommendation.

SPANISH

SPANISH 1 CP

This course is the first course of a two-year sequence. The course is designed for novice students or students new to the study of world languages. Students who wish to study Spanish, but find the pacing of the CPE program too rapid and too inclusive, will find this course to be appropriate for their needs. Students must have teacher/counselor/case-manager recommendation to be placed into the CP program. **This course is not designed to prepare the student for Spanish 2 CPE.**

Students will learn exciting aspects about the Hispanic culture and will be able to express themselves in presentational, interpretive, and interpersonal modes of communication. Students will be exposed to the following themes: physical and personality traits, likes and dislikes, sports and leisure activities, school events and classes, locations within the community, and the home and household chores through reading, writing, listening, and speaking activities. Communication is the number one goal for the district, meeting the New Jersey Student Learning Standards.

SPANISH 1 CPE

This course is the first course of a four-year sequence; however, enrollment is not restricted to students who wish to complete two years of a world language. The course is designed for students new to the study of world languages. Students will learn exciting aspects about the Hispanic culture and will be able to express themselves in presentational, interpretive, and interpersonal modes of communication through reading, writing, listening and speaking activities. Students will be able to communicate about topics including likes and dislikes, leisure activities, the school, places in the community, food and restaurants, health and exercise, family and celebrations, and the home. Communication is the number one goal for the district, meeting the New Jersey Student Learning Standards.

SPANISH 2 CP

This course is the second course of a two-year sequence. The course is designed for students who wish to continue a second year of Spanish, but find the pacing of the CPE sequence too rapid and too inclusive. Students wishing to take this course must be in the 10th, 11th, or 12th grade, in addition to having teacher/counselor/case-manager recommendation to be placed into the CP program. **This course is not designed to prepare the student for Spanish 3 CPE.**

Students will improve their knowledge about the Hispanic culture and will continue to improve their communication skills through presentational, interpretive, and interpersonal modes of communication and explore such topics as food and restaurants, daily routines and health, clothing and shopping, holidays and celebrations, and travel. There is a continued emphasis to continue reading, writing, listening, and, speaking skills into daily lessons and forms of assessment. Communication is the number one goal for the district, meeting the New Jersey Student Learning Standards.

Prerequisite: Spanish 1 CP

SPANISH 2 CPE

This course is intended for students who have completed the equivalent of Spanish 1 CPE. Students will improve their knowledge about the Hispanic culture and expand their communication skills to include discussions about school and extra-curricular activities, daily routines, shopping and clothing, childhood pastimes, holidays and special celebrations, and issues impacting the environment. The students will continue to improve their communication skills through presentational, interpretive, and interpersonal modes of communication. There is a continued emphasis to combine reading, writing, listening, and speaking skills into daily lessons and forms of assessment. Communication is the number one goal for the district, meeting the New Jersey Student Learning Standards.

Prerequisite: Spanish 1 CPE

SPANISH 3 CPE

This course initiates the intermediate level of study and further develops the five basic skills developed in Spanish 1 and Spanish 2 at the CPE level. The students will be exposed to topics including sports and entertainment, outdoor activities, the arts and artists, health, food, and nutrition, volunteerism and community work, and careers and higher education. The students will become more comfortable expressing themselves in the interpretive, presentational, and interpersonal modes of communication. Communication is the number one goal for the district, meeting the New Jersey Student Learning Standards.

Prerequisite: Spanish 2 CPE

SPANISH 3 H

This course is designed for highly self-motivated students with an interest in the Spanish language and culture. The students will profit from more advanced reading selections and listening practice. Students enrolled in the Spanish 3 Honors course will proceed more rapidly with language structure exercises. The class will be instructed entirely in Spanish. Students in this course will continue to advance their interpretive, interpersonal, and presentational modes of communication. Communication is the number one goal for the district, meeting the New Jersey Student Learning Standards.

Prerequisite: Spanish 2 CPE and students must have a teacher recommendation for placement in the Honors program.

SPANISH 4 CPE

This course is designed to expose the students to a fourth year of study and to continue to develop an increased awareness of the interpretive, presentational, and interpersonal skills through reading, writing, speaking and listening activities. Emphasis is given to contemporary issues including, festivals and holidays, youth and family, Latin American presence in the United States, the educational system, and the customs and cultures of the Spanish-speaking world. Communication is the number one goal for the district, meeting the New Jersey Student Learning Standards. **This course is not designed to prepare the student for AP Spanish 5.**

Prerequisite: Spanish 3 CPE, H

SPANISH 4 H (BCC LAN-231)

This course is an intermediate/advanced level course that is designed for those students who have demonstrated a superior aptitude and performance in the development of the major skills: speaking, reading, writing, listening, and culture. The honors course will progress at a brisk pace and emphasis will be placed on the interpretive, interpersonal, and presentational modes of communication. The students will discuss topics including fashion and style, travel, health, and the history of Spain. Communication is the number one goal for the district, meeting the New Jersey Student Learning Standards. This course may be taken as part of the Dual Enrollment program for credit through Bergen Community College – BCC LAN-231 (3 Credits).

Prerequisite: Spanish 3 CPE, H and students must have a teacher recommendation for placement in the Honors program.

SPANISH CINEMA, CULTURE, AND CONVERSATION CPE

This course is about the study of the Spanish language and culture, designed to facilitate Spanish conversation through watching culturally authentic film. The themes of the movies represent Spanish-speaking countries and parallel the AP exam themes (Contemporary Life, Global Challenges, Science and Technology, Private and Public Identities, Family and Society, and Beauty and Esthetics). Students will watch movies that explore both past and present daily life in a wide variety of themes, genres, and cultural experiences including, but not limited to, events of historical, social, and economic significance. This course is only available for seniors.

Prerequisite: Spanish 3 CPE or Spanish 3 H

ADVANCED PLACEMENT SPANISH 5

This course is an advanced level course, which meets the needs of students who have achieved greater fluency and listening comprehension and wish to refine these skills. Listening and speaking skills are continuously analyzed and evaluated. Reading continues with a variety of authentic selections discussed in Spanish; writing skills are expanded to include analytical and creative formats. Course discussions, writing prompts, and readings will centralize around the global themes of technology, politics, commerce, education, sports, health and medicine, arts and entertainment, tourism, and the environment. Communication is the number one goal for the district, meeting the New Jersey Student Learning Standards.

****Students enrolled in this course are prepared for and expected to take the AP Examination in Spanish Language.**

Prerequisite: Spanish 4 H and students must have a teacher recommendation

COURSE OFFERING CHART

SUBJECT	GROUPING	PREREQUISITE	GRADES OFFERED	H.S. CREDITS
APPLIED TECHNOLOGY				
Applied Technology and Design	CP		9, 10, 11, 12	2.5
Architecture & Design 1	CP	CAD	10, 11, 12	2.5
Architecture & Design 2	CP	Architecture & Design 1	11, 12	2.5
Architectural Modeling	CP	Architecture & Design 2	12	2.5
At Home with Technology	CP		10, 11, 12	2.5
Computer Aided Design (CAD)	CP		9, 10, 11, 12	2.5
Engineering	H	Concurrently taking Physics and Algebra 2	11, 12	5
Independent Study	CP	Must be a senior and permission from the teacher	12	2.5
Introduction to Engineering	CP		10, 11, 12	2.5
Robotics	CP		10, 11, 12	2.5
Structured Learning Experience (S.L.E.)	CP	Job-related courses	11, 12	10
Transportation and Energy Technology	CP		10, 11, 12	2.5
Wood Processing Technology 1	CP		10, 11, 12	2.5
Wood Processing Technology 2	CP	Wood Processing Technology 1	11, 12	2.5
Independent Study in Applied Technology	CP	2 years of Applied Technology	12	2.5
Bergen Technical Education Program (Paramus)	CP	See Vocational Education for course descriptions	10, 11, 12	15
ART				
Drawing I	CP		9, 10, 11, 12	2.5
Drawing II BCC ART-124 (3 college credits may be earned through Dual Enrollment)	CP	Drawing I	10, 11, 12	2.5
Painting I	CP		9, 10, 11, 12	2.5
Painting II	CP	Painting I	10, 11, 12	2.5

SUBJECT	GROUPING	PREREQUISITE	GRADES OFFERED	H.S. CREDITS
Sculpture & Ceramics I	CP		9, 10, 11, 12	2.5
Sculpture & Ceramics II	CP	Sculpture & Ceramics I	10, 11, 12	2.5
Digital Design I	CP		9, 10, 11, 12	2.5
Digital Design II BCC ART-122 (3 college credits may be earned through Dual Enrollment)	CP	Digital Design I	10, 11, 12	2.5
Digital Illustration & Animation I	CP		9, 10, 11, 12	2.5
Digital Illustration & Animation II BCC ART-189 (3 college credits may be earned through Dual Enrollment)	CP	Digital Illustration & Animation I	10, 11, 12	2.5
Digital Photography I	CP		9, 10, 11, 12	2.5
Digital Photography II BCC ART-184 (3 college credits may be earned through Dual Enrollment)	CP	Digital Photography I	10, 11, 12	2.5
Advanced Studio Art	H	Requires the completion of at least three art classes.	11, 12	5
AP Studio Art	AP	Requires the completion of at least three art classes: Drawing I and any second level class w/portfolio review and a signed Art teacher recommendation.	11, 12	10
BUSINESS				
Accounting 1	CPE		10, 11, 12	5
Accounting 2	CPE	Accounting 1	11, 12	5
App Development /I-Applications	CP		9, 10, 11, 12	2.5
Business Continuity & Management	CP		10, 11, 12	2.5
Business Principles & Management	CPE		10, 11, 12	5
Computer Anatomy	CP		9, 10, 11, 12	2.5
Contemporary Business Technology	CP		9, 10, 11, 12	2.5
Digital Media	CP		9, 10, 11, 12	2.5
Entrepreneurship	CPE	Accounting 1, Business Principles, or Marketing	11, 12	2.5
Financial Literacy	CP		10, 11, 12	2.5
Marketing	CPE		10, 11, 12	5

SUBJECT	GROUPING	PREREQUISITE	GRADES OFFERED	H.S. CREDITS
Sports and Entertainment Marketing	CPE	Accounting 1, Business Principles, or Marketing	11, 12	2.5
Web Design	CPE	Algebra I	9, 10, 11, 12	5
ENGLISH				
English 1	H, CPE, CP		9	7.5
English 2	H, CPE, CP	English 1	10	5
AP English 3	AP	English 2 H or English 2 CPE	11	5
English 3	CPE, CP	English 2	11	5
American Studies	CPE	English 2	11	5
AP English 4	AP	English 3 AP or English 3 CPE	12	5
English 4	CPE, CP	English 3	12	5
Writing Culture: Intro to Creative Nonfiction SUPA WRT-114 (3 college credits may be earned through Dual Enrollment)	H	English 3 AP or English 3 CPE	12	2.5
Gender and Literary Texts SUPA ETS-192 (3 college credits may be earned through Dual Enrollment)	H	English 3 AP or English 3 CPE	12	2.5
Film as Literature – From Text to Film	CPE	English 3	12	2.5
Sports and Literature – A Cultural Looking Glass	CPE	English 3	12	2.5
Dystopian Literature – A Walk on the Dark Side	CPE	English 3	12	2.5
Myth and Culture	CPE	English 3	12	2.5
The Imaginative World of Science Fiction	CPE	English 3	12	2.5
English Seminar	CPE	English 3	12	2.5
Acting Lab	CPE		9, 10, 11, 12	5
Audio & Film Editing	CPE		9, 10, 11, 12	5
Communications	CP		9, 10, 11, 12	2.5
Choreography	CP		9, 10, 11, 12	2.5
Drama	CP		9, 10, 11, 12	2.5
Humanities: Heroes, Heroines, Nature, & Conflict	CP		10,11, 12	2.5

SUBJECT	GROUPING	PREREQUISITE	GRADES OFFERED	H.S. CREDITS
Journalism	CP		9, 10, 11, 12	2.5
Musical Theatre	CP		9, 10, 11, 12	2.5
Philosophy of Knowledge	H	For Grade 12 UP SMR & IS&B IHHS students only	12	2.5
Public Speaking	CP		11, 12	2.5
Script Writing	CP		9, 10, 11, 12	2.5
Stage Movement/Dance	CP		9, 10, 11, 12	2.5
Theatre Production	CP		9, 10, 11, 12	2.5
TV Studio Production	CPE		9, 10, 11, 12	5
Writer's Workshop	CP		9, 10, 11, 12	2.5
English for Speakers of Other Languages	---	-----	9, 10, 11, 12	10
FAMILY & CONSUMER SCIENCE				
Child Development BCC EDU-120 (3 college credits may be earned through Dual Enrollment)	CP	Pre-Approval is based upon attendance and discipline record. Pre-Approval Form in Guidance Dept.	10, 11, 12	5
Contemporary Foods	CP		9, 10, 11	2.5
Global Foods	CP	Contemporary Foods	10, 11, 12	2.5
The Culinary Gourmet BCC HRM-103 (3 college credits may be earned through Dual Enrollment) Cannot earn BCC credit for this class <i>AND</i> Real World Cooking	CP	Global Foods	11, 12	2.5
Real World Cooking BCC HRM-103 (3 college credits may be earned through Dual Enrollment) Cannot earn BCC credit for this class <i>AND</i> The Culinary Gourmet	CP		12	2.5
Fashion & Technology 1	CP		9, 10, 11, 12	2.5
Fashion & Technology 2	CP	Fashion & Technology 1	10, 11, 12	2.5
Fashion & Technology 3	CP	Fashion & Technology 2	11, 12	2.5
Fashion & Technology 4	CP	Fashion & Technology 3	12	2.5

SUBJECT	GROUPING	PREREQUISITE	GRADES OFFERED	H.S. CREDITS
HEALTH & PE EDUCATION				
Health 1	CP		9	1.25
Health 2	CP		10	1.25
Health 3	CP		11	1.25
Health 4	CP		12	1.25
Physical Education 1	CP		9	3.75
Physical Education 2	CP		10	3.75
Physical Education 3	CP		11	3.75
Physical Education 4	CP		12	3.75
MATHEMATICS				
Algebra 1	CP		9, 10	7.5
Algebra 1	CPE		9, 10, 11	5
Algebra Refresher	CP		9, 10, 11, 12	2.5
Geometry	H	Algebra 1	9, 10	5
Geometry	CPE	Algebra 1	9, 10, 11, 12	5
Geometry	CP	Algebra 1 CP	10, 11, 12	5
Algebra 2	H	Geometry	9, 10, 11	5
Algebra 2	CPE	Geometry	10, 11, 12	5
Algebra 2	CP	Geometry CP	11, 12	5
Precalculus Mathematics	H, CPE	Algebra 2 CPE, H	11, 12	5
College Algebra & Statistics	CPE	Algebra 2 CPE	11, 12	5
Advanced Mathematics Applications	CP	Algebra 2 CP	12	5
AP Statistics	AP	Algebra 2 or Precalculus (A in CPE or B in Honors)	11, 12	5
Calculus	CPE	Precalculus-CPE, H	12	5
AP Calculus AB	AP	Precalculus CPE, H	11, 12	5
AP Calculus BC	AP	Precalculus H	11, 12	5

SUBJECT	GROUPING	PREREQUISITE	GRADES OFFERED	H.S. CREDITS
Multivariable Calculus SUPA MAT 397 (4 college credits may be earned through Dual Enrollment – **Pending Syracuse U. Approval**	H	AP Calculus BC or AP Calculus AB with Teacher Recommend. and AP Calculus BC as Co-requisite	12	5
Computer Science BCC CIS-165 (3 college credits may be earned through Dual Enrollment)	H	Algebra 1 (Grade B or better)	9, 10, 11, 12	5
AP Computer Science A	AP	Computer Science H or Supervisor Approval	10, 11, 12	5
AP Computer Science Principles	AP	Algebra 1 (Grade B or better)	10, 11, 12	5
MUSIC				
Chamber Choir	CP	By Audition Students who wish to take this course for 2.5 credits must have permission from the Instructor	10, 11, 12	2.5 or 5
Chamber Choir	H	By Audition	10, 11, 12	5
Concert Choir	CP		9, 10, 11, 12	2.5 or 5
Concert Choir	H	By Audition	10, 11, 12	5
Music Theory	CPE		9, 10, 11, 12	5
AP Music Theory	AP	Music Theory CPE Students with an advanced level of musical experience, who have not taken the Music Theory CPE course, may take this course with a teacher recommendation.	10, 11, 12	5
Pop and Rock: Intro to Music	CPE		9, 10, 11, 12	5
String Orchestra	CP		9, 10, 11, 12	2.5 or 5
String Orchestra	H	By Audition	10, 11, 12	5
Symphonic Band	CP		9, 10, 11, 12	2.5 or 5
Symphonic Band	H	By Audition	10, 11, 12	5
Wind Ensemble	CP	By Audition Students who wish to take this course for 2.5 credits must have permission from the Instructor	9, 10, 11, 12	2.5 or 5
Wind Ensemble	H	By Audition	10, 11, 12	5
SCIENCE		IMPORTANT: Please see Page 50 for “General Prerequisites for Science Honors and AP Courses”		
Integrated Physical Science	CP	Co-requisite: Algebra 1 CP or Int. Algebra & Geometry CP	9	5

SUBJECT	GROUPING	PREREQUISITE	GRADES OFFERED	H.S. CREDITS
Chemistry	CP	Algebra 1 CP or Integrated Algebra & Geometry CP	10, 11	7.5
Chemistry	CPE	Algebra 1 CPE or Algebra 1 CP, and Biology CPE Co-requisite: Geometry CPE	10, 11	7.5
Chemistry	H	Algebra 1 Co-requisite: For incoming Freshmen: Algebra 2 H, Algebra 2 CPE, or Geometry H; For Sophomores: Same as above or Geometry CPE	9, 10	7.5
AP Chemistry	AP	Chemistry CPE or Chemistry H	11, 12	7.5
Biology	CP	Co-requisite: Algebra 1 CP	9, 10, 11	7.5
Biology	CPE	Co-requisite: Algebra 1 CPE or Geometry CPE	9, 10, 11	7.5
Biology	H	Chemistry	10, 11	7.5
AP Biology	AP	Chemistry and Biology	11, 12	7.5
Anatomy & Physiology	CPE	Chemistry and Biology	12	7.5
Conceptual Physics	CP	Algebra 1 CP and Geometry CP	11	7.5
Physics	CPE	Co-requisite: Algebra 2 CPE	11, 12	7.5
AP Physics 1	AP	Co-requisite: Algebra 2 CPE (UP-E&D Students Grade 11)	11, 12	7.5
AP Physics 2	AP	AP Physics 1 or Physics CPE Co-requisite: Precalculus CPE	12	7.5
AP Physics C	AP	Physics Co-requisite: Calculus	12	7.5
Selected Topics in Physics	H	AP Physics 1 or Physics CPE Co-requisite: Precalculus CPE	12	2.5
Animal Studies	CP	Biology	10, 11, 12	2.5
Astronomy	CP		11, 12	2.5
Contemporary Issues In Science	CP		11, 12	2.5
Entertainment & Science	CP	Co-requisite: Biology	9, 10, 11, 12	2.5
Environmental Science BCC BIO-108 (4 college credits may be earned through Dual Enrollment)	CPE	Co-requisite: Physics	11, 12	7.5
Forensic Science	CPE	Chemistry and Geometry	11, 12	5
Horticulture BCC HRT-102 (4 college credits may be earned through Dual Enrollment)	CP	Biology	11, 12	5
Marine Systems / Oceanography	CP	Biology and Chemistry	12	5

SUBJECT	GROUPING	PREREQUISITE	GRADES OFFERED	H.S. CREDITS
Science Seminar	H	Honors Biology	11, 12	2.5
Sports Science	CP	Co-Requisite: Physics	11, 12	2.5
STEM Challenge Lab	CPE		10, 11, 12	2.5
UP-SMR-SAT Biology	H		9	10
UP-SMR-SAT Chemistry	H		10	10
UP-SMR-Human Anatomy	H		10	5
UP-SMR-AP Physics 1	AP		11	7.5
UP-SMR-Biomechanics	H		11	2.5
UP-SMR Science Research SUPA URP-150 (4 college credits may be earned through Dual Enrollment)	H		11	5
UP-SMR-Medical Issues	H		12	2.5
UP-Philosophy of Knowledge	H	See English for course description Course at Indian Hills Only	12	2.5
UP-E&D-Biology	H		9	7.5
UP-E&D-Engineering Research Methods	H		9	2.5
UP-E&D-Introduction to Engineering Design	H		9	2.5
UP-E&D-Chemistry	H		10	7.5
UP-E&D-Engineering, Math, & Computer Applications	H		10	2.5
UP-E&D-Materials & Processes	H		10	2.5
UP-E&D-AP Physics 1	AP		11	7.5
UP-E&D-Principles of Engineering	H		11	2.5
UP-E&D-Digital Electronics	H		11	2.5
UP-E&D-Computer Science for Engineers	H		11	2.5
UP-E&D-AP Physics C	AP		12	7.5
UP-E&D-Engineering Research Seminar	H		12	5
UP-E&D-Selected Topics in Physics	H		12	2.5

SUBJECT	GROUPING	PREREQUISITE	GRADES OFFERED	H.S. CREDITS
SOCIAL STUDIES				
World Civilizations	CP, CPE		9	5
World Civilizations	H		9	5
United States History 1	CP, CPE		10	5
AP United States History 1	AP		10	5
United States History 2	CP, CPE	U.S. History 1 CP, CPE	11	5
AP United States History 2	AP	AP U.S. History 1	11	5
United States History 2 FDU – Middle College Program	CPE	U.S. History 1 CP, CPE	11	5
American Studies	CPE	U.S. History 1 CP, CPE	11	5
Anthropology	CPE		11, 12	5
Current Events: Investigating Modern Media	CP		9, 10, 11,12	2.5
Economics	CPE		11, 12	5
AP Economics	AP		11, 12	5
Geography	CPE		10, 11, 12	5
Law and Human Rights	CPE		11, 12	5
AP Modern European History	AP		10, 11, 12	5
Psychology	CPE		11, 12	5
AP Psychology	AP	Psychology CPE (A or B Average) or Supervisor's Approval	12	5
Sociology	CPE		11, 12	5
Your World: Community Problem Solving	CP	Final grade of C- or better in World Civilizations course	10, 11, 12	2.5
Sports History	CPE		11, 12	5
UP-ISB-World History	H		9	5
UP-ISB-Critical Global Issues	H		9	5
UP-ISB-Global Financial Markets	H		10	5
UP-ISB-Global Economy: Trade, Poverty, & Wealth	H		11	5
UP-ISB-Managerial Business Decisions & Accounting	H		12	5

SUBJECT	GROUPING	PREREQUISITE	GRADES OFFERED	H.S. CREDITS
UP-ISB-21 st Century Issues	H		12	5
UP-Philosophy of Knowledge	H	See English for course description	12	2.5
WORLD LANGUAGE				
Chinese 1	H	Teacher Recommendation	9, 10, 11,12	5
Chinese 2	H	Chinese 1 H and Teacher Recommendation	10, 11, 12	5
Chinese 4	H	Chinese 3 H and Teacher Recommendation (pertains to current 2017-18 students only)	12	5
French 1	CPE		9, 10, 11,12	5
French 2	CPE	French 1 CPE	9, 10, 11,12	5
French 3	CPE	French 2 CPE	10, 11, 12	5
French 3	H	French 2 CPE and Teacher Recommendation	10, 11, 12	5
French 4	CPE	French 3 CPE, H	11, 12	5
French 4 BCC LAN-201 (3 college credits may be earned through Dual Enrollment)	H	French 3 CPE, H and Teacher Recommendation	11, 12	5
French Cinema, Culture, and Conversation	CPE	French 3 CPE or French 3 H	12	5
AP French 5	AP	French 4 H and Teacher Recommendation	12	5
Italian 1	CPE		9, 10, 11,12	5
Italian 2	CPE	Italian 1 CPE	9, 10, 11,12	5
Italian 3	CPE	Italian 2 CPE	10, 11, 12	5
Italian 3	H	Italian 2 CPE and Teacher Recommendation	10, 11, 12	5
Italian 4	CPE	Italian 3 CPE, H	11, 12	5
Italian 4 BCC LAN-221 (3 college credits may be earned through Dual Enrollment)	H	Italian 3 CPE, H and Teacher Recommendation	11, 12	5
Italian Cinema, Culture, and Conversation	CPE	Italian 3 CPE or Italian 3 H	12	5
AP Italian 5	AP	Italian 4 H and Teacher Recommendation	12	5
Spanish 1	CP		9, 10, 11,12	5
Spanish 1	CPE		9, 10, 11,12	5
Spanish 2	CP	Spanish 1 CP	10, 11, 12	5

SUBJECT	GROUPING	PREREQUISITE	GRADES OFFERED	H.S. CREDITS
Spanish 2	CPE	Spanish 1 CPE	9, 10, 11,12	5
Spanish 3	CPE	Spanish 2 CPE	10, 11, 12	5
Spanish 3	H	Spanish 2 CPE and Teacher Recommendation	10, 11, 12	5
Spanish 4	CPE	Spanish 3 CPE, H	11, 12	5
Spanish 4 BCC LAN-231 (3 college credits may be earned through Dual Enrollment)	H	Spanish 3 CPE, H and Teacher Recommendation	11, 12	5
Spanish Cinema, Culture, and Conversation	CPE	Spanish 3 CPE or Spanish 3 H	12	5
AP Spanish 5	AP	Spanish 4 H and Teacher Recommendation	12	5
School & Community Service Program			9,10,11,12	1.25

AP – Advanced Placement H – Honors CPE – College Prep Enhanced CP – College Prep