

Course Selection Guide

2024-2025



Prepare•Empower•Inspire

New Brunswick High School

1000 Somerset Street
New Brunswick, NJ 08901
(732)745-5300 x3000



Prepare • Empower • Inspire

BOARD OF EDUCATION

Ms. Jennifer Sevilla, *President*
Mr. Ivan Adorno, *Vice President*
Ms. Ashley Caldwell, *Board Member*
Mrs. Yesenia Medina-Hernandez, *Board Member*
Ms. Janessa Ortiz, *Board Member*
Mrs. Diana Solis, *Board Member*
Mr. Edward Spencer, *Board Member*
Ms. Patricia Varela, *Board Member*
Ms. Emely Cruz Memije, *Student Representative*

CENTRAL ADMINISTRATION

Dr. Aubrey A. Johnson, *Superintendent*
Mrs. Virginia L. Hill, *Assistant Superintendent of C&I*
Dr. Iris Forde, *Assistant Superintendent of SSS*
Ms. Zuleima Perez, *Assistant Superintendent of Human Resources*
Ms. Dorenia D. Villalona, *Business Administrator and Board Secretary*
Mr. Frank LoDolce, *Director of Facility Design and Construction*

HIGH SCHOOL ADMINISTRATION

Mr. Matthew Rusnak, *Principal*
Dr. Jenna Anderson, *Vice Principal (Grade 9)*
Ms. Christine Demasceno, *Vice Principal (Grade 10)*
Dr. Carl Bampoe-Parry, *Vice Principal (Grade 11)*
Mr. Steven Suznovich, *Vice Principal (Grade 12)*

Table of Contents

<u>INFORMATION</u>	<u>PAGE</u>
School Counseling Department	4
Student Records	4
Transferring to another School	4
Graduation Requirements	5
Credit Requirements for Promotion	7
Course Selection Procedures	7
Schedule Changes	7
Retaking a Course in Summer School	8
Course Advancement in Summer School	8
Grading System	8
Grade Point Average	9
Selection of Valedictorian and Salutatorian	9
Grading Policy for Transfer Students	10
Honor Roll	10
National Honor Society Policy	10
Advanced Placement Courses	10
Open Enrollment & Dual Enrollment Programs	11
AVID	11
Absences	11
Make-Up Work & Homework Requests Due to Absence	12
Extra Help	13
Athletic Eligibility	13
Acceptable Use Agreement (AUA) & Media Release	14
Working Papers	14
LANGUAGE ARTS LITERACY	15
English Electives	21
MATHEMATICS	23
Mathematics Electives	31
SCIENCE	32
Science Electives	40
SOCIAL STUDIES	42
Social Studies Electives	46
WORLD LANGUAGE	49
HEALTH & PHYSICAL EDUCATION	53
FINE, VISUAL & PERFORMING ARTS (FVPA)	55
Visual Art	55
Dance	60
Music	60
Theater	64
21ST CENTURY LIFE & CAREERS	66
FINANCIAL, ECONOMIC BUSINESS & ENTREPRENEURIAL LEADERSHIP	79
ELECTIVES	80
AVID	80
Peer Leadership	81
STUDENT SUPPORT SERVICES	82
MIDDLESEX COLLEGE COURSES	85

SCHOOL COUNSELING DEPARTMENT

Vanessa Ming

Director of School Counseling

COUNSELORS

Rafael Castillo
Walter Cosillo
Sharon Frances Dills
Nathaniel Harris
Kawanna Jenkins-Trigg
Jessica Jorge Duran
Derek Peters
Marisol Robles
Marisa Sudnick

SECRETARIES

Marisol Curtis
Simone Goldberg
Elaine Taylor

SCHOOL COUNSELING SERVICES

The School Counseling Department offers a number of services to the students of NBHS, including individual and career counseling. The School Counseling Department also provides course advisement, college and financial aid advisement, copies of official records such as transcripts, working papers and testing information for college admission.

Students must adhere to the following procedures to see their counselor:

- Obtain an official pass from a counselor.
- Obtain an official pass from a staff member on lunch duty.
- In case of an emergency, obtain an official pass from your classroom teacher.

STUDENT RECORDS

A student has the right to review his/her own personal records. This right is also extended to his/her parents/guardians. If needed, this interpretation will be provided in the dominant language of the authorized reviewers.

TRANSFERRING TO ANOTHER SCHOOL

When transferring to another school, the student's parent/guardian must come to the School Counseling Office and meet with a counselor to complete the necessary paperwork. **STUDENTS WHO ARE UNDER THE AGE OF 18 MUST HAVE A PARENT SIGNATURE.** In order for appropriate transfer forms to be prepared, the parent/guardian must provide the address where the student is relocating and the name and address of the new school the student will be attending.



GRADUATION REQUIREMENTS

A graduating student must have earned a minimum of 120 credits in courses designed to meet all of the New Jersey Student Learning Standards including, but not limited to, the following credits:

Language Arts Literacy	20 credits
Mathematics	15 credits
Social Studies	15 credits
Science	15 credits
World Language	10 credits
Health, Safety and Physical Education	5 credits per year
Fine, Visual and Performing Arts	5 credits
21st Century Life and Careers	5 credits
Financial, Economic, Business, and Entrepreneurial Literacy	2.5 credits
Social Justice, African American and African Diaspora Studies, or Latin American Studies (<i>effective starting with the graduating class of 2025</i>)	2.5 credits
Technological Literacy	Integrated throughout courses

- (1) 20 credits in English language arts aligned to grade nine through twelve standards;
- (2) 15 credits in mathematics, including Algebra I or the content equivalent; geometry or the content equivalent; and a third year of mathematics that builds on the concepts and skills of algebra and geometry and that prepares students for college and 21st century careers;
- (3) 15 credits in science, including at least five credits in laboratory biology/life science or the content equivalent; one additional laboratory/inquiry-based science course, which shall include chemistry, environmental science, or physics; and one additional laboratory/inquiry-based science course;

- (4) 15 credits in social studies, including satisfaction of N.J.S.A. 18A:35-1 and 18A:35-2; five credits in world history; and the integration of civics, economics, geography, and global content in all course offerings;
- (5) 2.5 credits in financial, economic, business, and entrepreneurial literacy;
- (6) 5 credits in health, safety, and physical education during each year of enrollment, distributed as one hundred fifty minutes per week, as required by N.J.S.A. 18A:35-5, 7, and 8;
- (7) 5 credits in visual and performing arts;
- (8) 10 credits in world languages or student demonstration of proficiency as set forth in N.J.A.C. 6A:8-5.1(a)2ii(2) and A.1.b.(2)(b);
- (9) 2.5 credits in either Social Justice, African American and African Diaspora Studies, or Latin American Studies, effective starting with the graduating class of 2025;
- (10) Technological literacy, consistent with the NJSLS, integrated throughout the curriculum;
- (11) 5 credits in 21st century life and careers, or career-technical education; and
- (12) Electives as determined by the high school program sufficient to total a minimum of 120 credits.

The 120-credit requirement set forth in N.J.A.C. 6A:8-5.1(a)1. and in A.1.a. above may be met in whole or in part through program completion of a range of experiences that enable students to pursue a variety of individualized learning opportunities, as follows:

- (1) The district shall establish a process to approve individualized student learning opportunities that meet or exceed the NJSLS.
 - (a) Individualized student learning opportunities in all NJSLS areas include, but are not limited to, the following:
 - (i) Independent study;
 - (ii) Online learning;
 - (iii) Study abroad programs;
 - (iv) Student exchange programs; and
 - (v) Structured learning experiences, including, but not limited to, work-based programs, internships, apprenticeships, and service learning experiences.
 - (b) Individualized student learning opportunities based upon specific instructional objectives aimed at meeting or exceeding the NJSLS shall:

(i) Be based on student interest and career goals as reflected in the Personalized Student Learning Plans;

(ii) Include demonstration of student competency;

(iii) Be certified for completion based on the district process adopted according to N.J.A.C. 6A:8-5.1(a)2.ii. and A.1.b.(2) below; and

(iv) Be on file in the school district and subject to review by the Commissioner of Education or designee.

(c) Group programs based upon specific instructional objectives aimed at meeting or exceeding the NJSLs shall be permitted and shall be approved in the same manner as other approved courses.

For additional information, please see the complete New Brunswick Board of Education [Policy 5460](#) on the district website.

CREDIT REQUIREMENTS FOR PROMOTION

Students are required to successfully complete a minimum number of credits in order to be promoted to the next grade level.

30 Credits for placement into Grade 10

60 Credits for placement into Grade 11

90 Credits for placement into Grade 12

120 Credits required for graduation

COURSE SELECTION PROCEDURES

- The window for course requests will open during the month of February for the following school year.
- Review the Program of Studies with your parents.
- Each student will be required to select at least 40 credits with special emphasis given to those courses which are required for graduation, higher education and/or themed institutes.
- Students will be provided a timeframe to choose course requests online through the Student Portal in OnCourse.
- The students will meet individually with their counselor to review their chosen course selection.

SCHEDULE CHANGES

The scheduling process begins during the course selection process and determines the development of the master schedule. After the master schedule is completed, schedule changes have a profound effect upon class size, teacher schedule, and/or courses offered. Schedule changes that do not affect a student's transcript will only be available during the first 7 school days of the 1st marking period of a course. After that time, change requests will be reviewed on a case-by-case basis by an administrator and withdrawal grades will be reflected on the transcript following [policy 2624](#).

A student requesting a change will complete a [change form](#). This change form must be given to the student's counselor. The counselor will review the form and contact the student.

RETAKEING A COURSE IN SUMMER SCHOOL

Students who fail a course during the school year may retake the course in an approved summer school. Prior to enrolling in the course the student MUST have the approval of the Vice Principal and School Counselor. The final summer school grade will be included on the transcript and the grade will be averaged into the Grade Point Average. Students who lose credit for attendance and require credit recovery will be permitted to enroll in summer school if space is available.

COURSE ADVANCEMENT IN SUMMER SCHOOL

Advanced courses for students who wish to take a course or subject not previously taken in an approved school district program and for which additional credits or advanced placement may be awarded upon successful completion of the course.

GRADING SYSTEM

The following grading system will be used to report the level of achievement of each student's work at New Brunswick High School.

A+ = 97-100

A = 93-96

A- = 90-92

B+ = 87-89

B = 83-86

B- = 80-82

C+ = 77-79

C = 73-76

C- = 70-72

D = 65-69

F = 64 and below

A student will not be awarded a grade less than a 50% for any marking period.

INC - Incomplete

M - Medically Excused
(Physical Education)

NC - No Credit

P - Pass

WP - Withdrawn Pass

WF - Withdrawn Fail

GRADE POINT AVERAGE

The GPA is computed by multiplying the numerical grade and level equivalent (Regular/Honors/AP) times the credits attempted and then dividing by the amount of credits. All graded subjects are counted in the averaging process.

	Regular	Honors	AP
A+	4.3	4.8	5.3
A	4.0	4.5	5.0
A-	3.7	4.2	4.7
B+	3.3	3.8	4.3
B	3.0	3.5	4.0

B-	2.7	3.2	3.7
C+	2.3	2.8	3.3
C	2.0	2.5	3.0
C-	1.7	2.2	2.7
D	1.0	1.0	1.0
F	0.0	0.0	0.0

INCOMPLETE GRADE

Incomplete work must be completed within two weeks of its assignment (or by the end of the marking period, whichever comes first) unless approved by the building principal. Incomplete grades are granted for documented extended illness and home instruction. Administrative approval is required for any other consideration. Failure to complete the work within the specified time will result in a failing grade. At the end of the year, outstanding incompletes will convert to failures unless the administration grants an extension.

GRADING CALCULATIONS

Grades will be calculated as follows: Homework=10%, Classwork=30%, Assessment=60%.

SELECTION OF THE VALEDICTORIAN AND SALUTATORIAN

The New Brunswick Board of Education mandates that the students who are selected to receive the Valedictorian or Salutatorian Award must meet the following criteria:

- He/she must be a graduating senior.
- He/she must have been enrolled in NBHS or NBHSTHS for a minimum of six (6) consecutive semesters.
- Of those students who have met the above high school requirements, the student with the highest weighted grade point average (GPA) will be selected as the valedictorian.
- Of those students who have met the above high school requirements, the student with the second highest weighted GPA will be eligible to be selected as the salutatorian.
- The selection of the valedictorian and salutatorian will be determined at the conclusion of the first semester of the senior year.

GRADING POLICY FOR TRANSFER STUDENTS

A transfer student to NBHS from any school will have grades converted according to the grading system utilized by NBHS. Weighted grading will not be applied to any course that is not weighted at NBHS. Students transferring to NBHS during the school year will receive partial credit from work satisfactorily completed at his/her previous school.

HONOR ROLL

Principal's Honor Roll and Honor Roll lists are generated for each marking period. Students on the Principal's Honor Rolls are those students who have



attained all “A’s” for the making period. Students on the Honor Roll are those students who have attained all “A’s” and “B’s” for the marking period.

NATIONAL HONOR SOCIETY POLICY

- Students must be members of the sophomore, junior, or senior classes and must have completed at least one semester at NBHS to be eligible for consideration.
- At the end of the first semester, the faculty advisor will evaluate the academic records of students to determine eligibility. All ninth, tenth, eleventh and twelfth grades will be used for eligibility. A tenth, eleventh or twelfth grade student must have attained at least a 3.25 cumulative grade point average to be eligible. Final grades and current mid-semester grades are considered. The grade point available is computed
- The advisor will contact all eligible students and invite them to apply for membership into the National Honor Society. After completion of the application the faculty council will review applications. The committee will identify those students who meet the criteria of leadership, service, and character as outlined in the NBHS and the NHS Handbooks. All applicants must have completed 20 hours of community service.
- Students are then selected by a majority vote of the five (5) faculty member council. The advisor of the NHS is not a voting member.
- The faculty advisor will inform the Principal who has been selected.
- The parents/guardians of the newly chosen members will be notified by the Principal.
- Questions concerning selection and/or non-selection must be directed to the National Honor Society Advisor in writing.

ADVANCED PLACEMENT COURSES

The Advanced Placement program is designed to prepare students for the content mastery and critical thinking skills expected of college students. By participating in this program the student will be given the opportunity to earn college credit and to stand out in the college admission process.

New Brunswick High School offers the following AP Courses:

Biology, Chemistry, Calculus AB, Calculus BC, Computer Science Principles, English Composition, English Literature, Physics, Spanish, US History, Environmental Science, Statistics and Studio Art

Students who apply to the Advanced Placement courses must:

- Meet all prerequisites as prescribed by the description in the course of Studies.
- Must meet all summer and/or Saturday course attendance and/or work requirements.
- Must take the AP Exam at the conclusion of the course.

OPEN ENROLLMENT FOR AP and/or HONORS CLASSES

NBHS extends open enrollment to **Honors** and **AP** classes to **all** motivated students. Open enrollment follows the “AP Equity Policy” endorsed by the College *Board* that “all students who are willing to accept the challenge of a rigorous academic curriculum should be considered for admission to AP courses” (2002). All NBHS students will be given the opportunity to take the AP/Honors courses they wish under the advisement of their school counselor, subject supervisor and the appropriate AP/Honors teacher. A student choosing this option who does not meet the stated prerequisite for the selected course will be required to sign a waiver explaining the expectations and workload of the courses and to maintain a “C” or better average. If the student does not earn a “C” in any marking period, his/her record may be reviewed and a parent/teacher conference may be held to discuss possible options. A parent/guardian must sign this waiver as well.

DUAL ENROLLMENT

New Brunswick High School students have the opportunity to earn college credit while still in high school. Through the High School Scholars program and Middlesex College, courses are offered at NBHS during regular school and after school hours and taught by one of NBPS’s teachers or college professors.

AVID

AVID (Advancement Via Individual Determination) is a national college preparatory program which supports students who have the potential for attending college but may not yet have the study skills and readiness for a rigorous college preparatory program. Students must apply to AVID to participate and admission is based upon test scores, grades, teacher recommendations, an essay and a personal interview. Once accepted, students are required to take a mandatory AVID course each year which focuses on all aspects of academic success and college readiness. Students are also required to challenge themselves in classes such as Honors or AP level programs.

ABSENCES

The District continues to follow Student Attendance [Policy 5200](#) and [Regulation 5200](#). Students who are absent from school for any reason are responsible for the completion of assignments missed because of their absence. All absences including observing a religious holiday, Take your Child to Work day or a College Visit will count toward 18 (full year course) or 9 (semester course) allowable absences. A student who is absent from school for observing a religious holiday shall not be deprived of any award, eligibility, or opportunity to compete for any award, or deprived of the right to take an alternate test or examination that was missed because of the absence provided there is a written excuse of such absence signed by the parent.

A parent or adult student shall provide advance notice to the school prior to the student being absent from school. Absences should be reported to the



School Attendance Officer by calling 732-745-5300 X3161 or sending a note addressed to the Attendance Office. If a student is determined to be absent from school without a valid excuse, and if the reason for the student's absence is unknown to school personnel, the Principal or designee shall immediately attempt to contact the student's parent to notify the parent of the absence and determine the reason for the absence.

A note explaining a student's absence for a non-communicable illness for a period of more than three (3) or more school days must be accompanied by a physician's statement of the student's illness with medical clearance to return to school. A student who has been absent by reason of having or being suspected of having a communicable disease must present to the school nurse written evidence of being free of communicable disease. On the tenth day of your child's non-allowable absence, the district is required to make a mandatory referral to the court program. Unexcused absences from school or from classes within the school day may subject a student to consequences that may include the denial of a student's participation in co-curricular activities and/or athletic competition. All unexcused absences will count toward truancy. Prolonged or repeated absences, excused or unexcused, from school or from class, may result in retention at grade level or loss of credit or removal from a course that would count toward the high school diploma.

High School students may be dropped from a course and/or denied course credit when he/she has been absent from 18 class sessions for a 5 credit course or 9 class sessions for a 2.5 credit course. High School students who have been dropped from a course of study may be assigned to an alternate program. School attendance shall be a factor in the determination of a student's promotion or retention (NBPS Board Policy 5410) which includes High School Graduation.

MAKE UP WORK DUE TO ABSENCE

When a student is absent, the student is given the number of days to make up for the missed work equal to the number of days the student was absent. However, if a student is absent from class for one day and misses a test or quiz he/she must take the exam when he/she returns to class the following day. If a student is absent two or more days and misses a test/quiz he/she will have (10) school days to make up all tests and quizzes. Failure to complete missed assignments may result in an incomplete or failing grade. At the end of the year, incomplete grades may convert to failures.

HOMEWORK REQUESTS DUE TO ABSENCE

Requests for homework should be made through the School Counseling Office according to the following procedure:

- Requests for homework assignments should be made only if the anticipated absence is for more than THREE DAYS as per board policy 5200. Work may be picked up in the School Counseling Office within 2 business days after the request is made.
- Requests for homework being made for a reason other than an



excused absence must be approved by the grade level assistant principal prior to submission.

EXTRA HELP

Extra help is available for all students after school. A 4:00 PM late bus is available for those students involved with extra help.

The following are some programs which are available:

Tutoring

Play It Smart

Credit Recovery

The student should see his/her counselor to take advantage of the program which best meets his/her needs.

ATHLETIC ELIGIBILITY

The following policies have been established by the New Brunswick Board of Education to participate in interscholastic athletics:

- To participate in fall and winter sports all second year 9th grade students and all students in grades 10, 11, 12 must have achieved a final overall GPA of 2.00* at the conclusion of the previous year. All grades received in an accredited summer school will be used to determine the GPA.
- Spring athletes grades 10-12, must have a previous school year GPA of 2.0.
- In addition all athletes must meet the following NJSIAA requirements:
- Fall/Winter season---the student must have earned 30 credits at the conclusion of the previous school year. Any courses satisfactorily completed in summer school will count towards the total credits for that year.
- Spring Season---the student must have earned 15 credits during the 1st semester of the current year.

*Students with a 1.75-1.99 GPA have the right to an appeal and may be placed on academic probation. Students under a 1.75 are not eligible for appeals.

All first year 9th grade students are eligible to participate in fall and winter athletics.

ACCEPTABLE USE AGREEMENT (AUA)

The New Brunswick Public School District has an Acceptable Use Agreement that all students and their parent/guardian must sign. This form must be completed each year. This agreement covers acceptable and unacceptable behavior while utilizing the technology resources available to students. All students must return this form completed. Copies are available in the High School Counseling Office.

MEDIA RELEASE FORM

The district Media Release form allows student's information to be shared in online platforms and for educationally related purposes. Parents who wish to

remove their consent or find any posted content disagreeable, should contact the School Business Administrator.

WORKING PAPERS

Students who work are required to have working papers as required by law. Students should obtain the application for working papers from the School Counseling Office during their lunch periods or after school.

Students Who Are 18 Or Older Do Not Need Working Papers.

New entrants, ESL and Bilingual students will be given diagnostic tests for appropriate placement. Placements shall be reviewed/approved by the Testing and Placement Center located at the Bilingual Office. **Only student identified by the Bilingual Office may enroll in Bilingual, ESL and SIFE courses**

Language Arts Literacy

In order to meet State and District graduation requirements, all students must successfully complete four years of Language Arts Literacy.

ENGLISH 9

Grade: 9

Graduation Requirements: This course is a graduation requirement and satisfies 5 credits toward Language Arts Literacy

5 Credits – Full Year

Prerequisite(s): None

The first year of high school English emphasizes the development of language arts skills in the areas of vocabulary, writing, reference and reading. Emphasis is placed on improving competency in the mechanics and organization of writing. The fundamentals for writing the research paper are also covered. Reading comprehension will be developed through the study of all literary genres using selections from modern and classical writers. English 9 immerses students in the study and use of reading and writing to skillfully communicate and construct meaning using a variety of media in order to prepare them for the level of literacy and thinking skills they will need to succeed as learners. Students will work independently and collaboratively to explore universal themes, issues and ideas; in doing so, they will connect the learning to real life, fostering lifelong, and proficient use of English Language Arts. By engaging in higher-level thinking processes, students will be challenged to examine texts critically and to synthesize their knowledge to create published pieces for a writing portfolio.

HONORS ENGLISH 9

Grade: 9

Graduation Requirements: This course fulfills the English 9 graduation requirement and satisfies 5 credits toward Language Arts Literacy

5 Credits – Full Year

Prerequisite(s): Recommendation of 8th grade teacher

This course consists of a chronological and thematic introduction to the Western literary tradition, beginning with excerpts from the Greek epics and continuing through the modern novel. Readings include selections from all literary genres. The basics of grammar and sentence construction are reviewed through intensive work in expository writing which includes the fundamentals of the research paper. Vocabulary development includes building verbal skills for the SAT

ENGLISH 10

Grade: 10

Graduation Requirements: This course is a graduation requirement and satisfies 5 credits toward Language Arts Literacy

5 Credits - Full Year

Prerequisite(s): Successful completion of English 9 or administrative approval
This course presents students with an opportunity to continue development in critical thinking, literary awareness and language skills. Emphasis on developing clear, coherent writing enables students to progress in communication skills. Students study American authors to develop an historical awareness and appreciation for the contributions of various groups to American literature. In addition, students are required to complete a research paper.

HONORS ENGLISH 10

Grade: 10

Graduation Requirements: This course fulfills the English 10 graduation requirement and satisfies 5 credits toward Language Arts Literacy

5 Credits – Full Year

Prerequisite(s): Successful completion of English 9 and teacher recommendation

This course is a survey of the historical development of literature. Readings include selections by authors of various ethnic and cultural backgrounds with emphasis on their contributions to American literature. Students are encouraged to approach reading and writing from an analytical perspective. Development of writing skills continues with concentration on expository and persuasive essays. Vocabulary development, including building verbal skills for the SAT, is also stressed. Students are required to complete a formal research paper.

ENGLISH 11

Grade: 11

Graduation Requirements: This course is a graduation requirement and satisfies 5 credits toward Language Arts Literacy

5 Credits – Full Year

Prerequisite(s): Successful completion of English 10 or administrative approval.

The objective of English 11 is to increase the student's proficiency in reading and communication skills through continued development of critical thinking skills. Students will study British authors to develop an awareness of the Western literary tradition. The focus in writing will be on preparing an effective persuasive essay. Vocabulary development will continue and research skills will be reviewed.

HONORS ENGLISH 11

Grade: 11

Graduation Requirements: This course fulfills the English 11 graduation requirement and satisfies 5 credits toward Language Arts Literacy

5 Credits – Full Year Prerequisite(s): Successful completion of English 10 and teacher recommendation.



This course is designed to provide potentially gifted students with opportunities to express their ideas, develop analytical reasoning skills and clarify values. Through an in-depth study of works of literature, students will learn to develop and support generalizations and extend generalizations to interpret new situations. In large and small group discussions, as well as through independent work, emphasis is placed on using reasoning strategies and critical thinking skills. Students also complete a formal research paper. This course prepares students who are considering taking AP English in the twelfth grade.

ENGLISH 12

Grade: 12

Graduation Requirements: This course is a graduation requirement and satisfies 5 credits toward Language Arts Literacy

5 Credits – Full Year

Prerequisite(s): Successful completion of English 11 or administrative approval.

English 12 is designed to continue development of higher level language arts skills. Emphasis is on a more critical and perceptive approach to modern American and world literature to promote a better understanding and appreciation of multi-cultures. Development of effective communication skills is stressed.

HONORS ENGLISH 12

Grade 12

Graduation Requirements: This course fulfills the English 12 graduation requirement and satisfies 5 credits toward Language Arts Literacy

5 Credits – Full Year

Prerequisite(s): Successful completion of English 11 and teacher recommendation.

The Honors English course is designed to have students explore world literature in order to develop a global perspective on human conflict as it unfolds in a variety of settings. The course will require intense background study and analysis of literary works with an emphasis on conflict analysis. Students will be expected to write extensively and for a variety of purposes to prepare them for college writing.

ADVANCED PLACEMENT LITERATURE AND COMPOSITION

Grade: 11, 12

Graduation Requirements: This course fulfills the English 11 or 12 graduation requirement and satisfies 5 credits toward Language Arts Literacy

5 Credits – Full Year

Prerequisite(s): Successful completion of the previous year's English course and teacher recommendation. Completion of summer assignment is required.



The AP English course is based on the premise that college-level material can be taught successfully to able and well-prepared secondary students. The course will require intense study and analysis of literary works with an emphasis on analytical writing. The course work will culminate with the AP examination in the spring. Colleges may offer advanced standing or credit for one or more semesters of college based on performance on the AP exam.

ADVANCED PLACEMENT LANGUAGE AND COMPOSITION

Grade: 11, 12

Graduation Requirements: This course fulfills the English 11 or 12 graduation requirement and satisfies 5 credits toward Language Arts Literacy

5 Credits – Full Year

Prerequisite(s): Successful completion of the previous year's English course and teacher recommendation. Completion of Summer Assignment is required. The AP Language and Composition course is based on the premise that college-level material can be taught successfully to able and well-prepared secondary students. The course will focus on composition and rhetorical analysis. Analytical and persuasive writing and non-fiction prose texts will be emphasized. The course work will culminate with the AP examination in the spring. Colleges may offer advanced standing or credit for one or more semesters of college based on performance on the AP exam.

ESL LEVEL I

Graduation Requirements: This course fulfills the English 9, 10, 11, or 12 graduation requirement and satisfies 5 credits toward Language Arts Literacy for students identified by the Bilingual Office only

Grades: 9, 10, 11, 12

5 Credits – Full Year

Prerequisite(s): None

This course is designed for non-English speaking students to initiate or reinforce the development of functional proficiency in English language arts literacy. Although the course focuses on reading, it also includes listening, speaking, reading comprehension and writing in context. Once pre reading skills are achieved, students will transition to higher level literacy goals. Culture and career awareness will continue to be discussed and implemented. Appropriate use of ESL strategies through planned activities will be an important component of this course.

ESL LEVEL II

Grades: 9, 10, 11, 12

Graduation Requirements: This course fulfills the English 9, 10, 11, or 12 graduation requirement and satisfies 5 credits toward Language Arts Literacy the Bilingual Office only

5 Credits – Full Year

Prerequisite(s): Successful completion of ESL Level 1; ACCESS Spring score of 1.5 or better and/or recommendation by the ESL teacher and Director of Bilingual/ESL.

This course is designed for limited English proficient students who have successfully completed English/ ESL Level I. This course continues to develop reading comprehension, verbal and writing skills as well as increase vocabulary development. Culture and career awareness will continue to be discussed and implemented. Appropriate use of ESL strategies through planned activities will

be an important component of this course.

ESL LEVEL III

Graduation Requirements: This course fulfills the English 9, 10, 11, or 12 graduation requirements and satisfies 5 credits toward Language Arts Literacy for students identified by the Bilingual Office only

Grades: 9, 10, 11, 12

5 Credits – Full Year

Prerequisite(s): Successful completion of ESL Level II; ACCESS Spring score of 2.5 or better and/or recommendation by the ESL teacher and Director of Bilingual/ESL.

Level III is for the limited English proficient students who have successfully completed ESL Level II. The purpose of this course is to continue to instruct the students in advanced English vocabulary, language structure, pronunciation, intonation, and speech habits. The course will further develop increased reading and writing skills. Culture and career awareness will continue to be discussed and implemented. Appropriate use of ESL strategies through planned activities will be an important component of this course.

ESL LEVEL IV

Grades: 9, 10, 11, 12

Graduation Requirements: This course fulfills the English 9, 10, 11, or 12 graduation requirements and satisfies 5 credits toward Language Arts Literacy by the Bilingual Office only

5 Credits – Full Year

Prerequisite(s): Successful completion of ESL Level III; ACCESS Spring score of 3.5 or better and/or recommendation by the ESL teacher and Director of Bilingual/ESL.

Level IV is for the limited English proficient students who have successfully completed ESL Level III. The purpose of this course is to stress more advanced reading and writing skills in addition to continuing the development of oral and comprehension tasks. Culture and career awareness will continue to be discussed and implemented. Appropriate use of ESL strategies through planned activities will be an important component of this course.

HONORS INTENSIVE ENGLISH AS A SECOND LANGUAGE LITERACY

Grades: 9, 10, 11, 12

Graduation Requirements: This course fulfills the English 9, 10, 11, or 12 graduation requirement and satisfies 5 credits toward Language Arts Literacy and 5 elective credits for students identified by the Bilingual Office only

5 Credits – Full Year

Prerequisite(s): ACCESS Spring score of 4 or better, standardized test scores, grade of A or B in previous ESL course, and recommendation by the ESL teacher and Director of Bilingual/ESL.

The ESL Intensive Literacy course is for highly motivated ESL students who meet the course prerequisites. This 5-credit, two-semester course will include advanced writing which will be enhanced by extensive use of technology and the reading essentials of vocabulary, comprehension fluency and proficiency. Culture and career awareness will continue to be discussed and implemented. Appropriate use of ESL strategies through planned activities will be an important component of this course.

English Electives

JOURNALISM

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 2.5 Elective credits

2.5 Credits - 1 Semester

Prerequisite(s): None.

The Journalism program presents an opportunity for students to sharpen writing skills, to analyze newspaper work and to evaluate it as a possible career choice. Oral communication skills are developed through interview and discussion. Students learn-through publishing the school newspaper, Highlights, the skills inherent in writing, editing, management, advertising and photography. Class assignments are planned to assist students in writing and publishing the school newspaper.

PUBLIC SPEAKING

Grades: 11, 12

Graduation Requirements: This course satisfies 2.5 Elective credits

2.5 Credits – 1 Semester

Prerequisite(s): None.

Public Speaking is presented as the academic study of speech and skills that are used to assess the spoken word. Students will examine the various types of speeches that include: informative, persuasive, and dramatic. Students will learn to discern various speech patterns, prepare and present their original speeches that are appropriate to multiple audiences. The course will explore the psychological dynamics of public speaking and the skill sets needed to counter anxiety related to public speaking.

SCHOLASTIC APTITUDE TEST (SAT) PREPARATION

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 2.5 Elective credits

2.5 Credits - 1 Semester

Prerequisite(s): Successful completion of college prep level Math and English.

All college-bound sophomores, juniors and seniors are encouraged to take this course. The course goals will focus on preparing students to score well on the college entrance exams in the verbal and math sections as well as on improving reading comprehension skills.



2023 Day of Dialogue

SOCIAL JUSTICE AND CIVIC ENGAGEMENT

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 Elective credits

2.5 Credits - 1 Semester

Prerequisite(s): None

This course enables students to become knowledgeable of social justice topics and the importance of applying these principles to their local and global community. Students will research and explore current and historical social movements via multiple lenses that are under the umbrella of race, culture, ethnicity, gender, sexual orientation, and class. Students will also examine and discuss how these concepts impact human ideologies, policies, relationships, and behavior throughout the course of history.

Mathematics

In order to meet State and District requirements, all students must successfully complete three years of mathematics including Algebra I and Geometry or the content equivalent and a third year of math that builds on the concepts and skills of algebra and geometry and prepares students for college and 21st century careers.

Math courses successfully completed prior to entering high school, may satisfy course prerequisites but do not count toward high school requirements for graduation.

The mathematics curriculum is designed for all students to meet the mathematics New Jersey Student Learning Standards. Student performance, grades and teacher recommendation will be used to determine the best placement for a student. Recommendations shall be based on the quality of assessment grades, classwork and general attitude toward learning mathematics. Recommendations support future success in high school mathematics classes and successful demonstration of proficiency in meeting the district and state required assessments for graduation.

ALGEBRA I

Grades: 9, 10, 11, 12

Graduation Requirements: This course is a graduation requirement and satisfies 5 credits of Mathematics in Algebra I or content equivalent

5 Credits – Full Year

This course follows a structured scope and sequence, introducing, reinforcing and extending topics identified by the New Jersey Student Learning Standards and the National Council of Mathematics Teachers. This course may include the use of labs, group explorations, calculators and computer software to study real world problem solving techniques and presentation strategies. Students will model and solve problems that involve varying quantities by using variables, expressions, equations and inequalities. They use Probability and Statistics to describe data sets, model situations and support inferences.



BILINGUAL ALGEBRA I

Grades: 9, 10, 11, 12

Graduation Requirements: This course is a graduation requirement and

satisfies 5 credits of Mathematics in Algebra I or content equivalent for identified bilingual students only

5 Credits – Full Year

Prerequisite(s): Recommendation from Bilingual Testing and Placement Center Bilingual Algebra I (SIFE) is for Spanish Speaking students who are new to the country and who have had interrupted formal education in their home countries. Students in this course are ESL I students. Bilingual Algebra I is taught by a Spanish speaking teacher who is also certified in Bilingual Education. It follows a structured scope and sequence, introducing, reinforcing and extending topics identified by the New Jersey Student Learning Standards and the National Council of Mathematics Teachers. This course may include the use of labs, group explorations, calculators and computer software to study real world problem solving techniques and presentation strategies. Students will model and solve problems that involve varying quantities by using variables, expressions, equations and inequalities. They use Probability and Statistics to describe data sets, model situations and support inferences.

BILINGUAL ALGEBRA I SIFE

Grades: 9, 10, 11, 12

Graduation Requirements: This course is a graduation requirement and satisfies 5 credits of Mathematics in Algebra I or content equivalent for identified SIFE students only

5 Credits – Full Year

This course is for Spanish Speaking students. Bilingual Algebra I is taught by a Spanish speaking teacher who is also certified in Bilingual Education. It follows a structured scope and sequence, introducing, reinforcing and extending topics identified by the New Jersey Student Learning Standards and the National Council of Mathematics Teachers. This course may include the use of labs, group explorations, calculators and computer software to study real world problem solving techniques and presentation strategies. Students will model and solve problems that involve varying quantities by using variables, expressions, equations and inequalities. They use Probability and Statistics to describe data sets, model situations and support inferences.

HONORS ALGEBRA I

Grade: 9

Graduation Requirements: This fulfills the Algebra I graduation requirement and satisfies 5 credits of Mathematics in Algebra I or content equivalent

5 Credits – Full Year

Prerequisite(s): Projected passing grade of “B” or higher in 8th Grade Math and teacher recommendation.

This course extends and deepens the topics of the regular Algebra I course.

HONORS BILINGUAL ALGEBRA I

Grade: 9

Graduation Requirements: This fulfills the Algebra I graduation requirement and satisfies 5 credits of Mathematics in Algebra I or content equivalent for identified Bilingual students only

5 Credits – Full Year

Prerequisite(s): Projected passing grade of “B” or higher in 8th Grade Math and teacher recommendation.



This course is for Spanish Speaking students whose English Proficiency levels range from 1 to 3. Bilingual Geometry is taught by a Spanish speaking teacher who is also certified in Bilingual Education. This course extends and deepens the topics of the regular Bilingual Algebra I course.

GEOMETRY

Grades: 9, 10, 11, 12

Graduation Requirements: This course is a graduation requirement and satisfies 5 credits of Mathematics in geometry or the content equivalent

5 Credits – Full Year

Prerequisite(s): Successful completion of Algebra I or administrative approval
This course follows a structured scope and sequence, introducing, reinforcing and extending topics identified by the New Jersey Student Learning Standards and the National Council of Mathematics teachers. This course includes the use of labs, group explorations, calculators, and computer software to study real world problem solving techniques and presentation strategies. Students will model and solve geometric problems that involve the study of transformational geometry, congruence and similarity of closed, plane figures, parallel and perpendicular lines and related angles, circles, coordinate geometry, right triangle trigonometry, fractals, matrices and sequences. Students will complete formal and informal proofs of geometric theorems as well as make geometric constructions. A portion of weekly lessons will be dedicated to reinforcing those mathematical cluster skills that have been identified on the PSAT.

BILINGUAL GEOMETRY

Grades: 9, 10, 11, 12

Graduation Requirements: This course is a graduation requirement and satisfies 5 credits of Mathematics in geometry or the content equivalent for identified Bilingual students only

5 Credits – Full Year

Prerequisite(s): Successful completion of Algebra I or administrative approval
This course is for Spanish Speaking students whose English Proficiency levels range from 1 to 3. Bilingual Geometry is taught by a Spanish speaking teacher who is also certified in Bilingual Education. This course follows a structured scope and sequence, introducing, reinforcing and extending topics identified by the New Jersey Student Learning Standards and the National Council of Mathematics teachers. This course includes the use of labs, group explorations, calculators, and computer software to study real world problem solving techniques and presentation strategies. Students will **model** and solve geometric problems that involve the study of transformational geometry, congruence and similarity of closed, plane figures, parallel and perpendicular lines and related angles, circles, coordinate geometry, right triangle trigonometry, fractals, matrices and sequences. Students will complete formal and informal proofs of geometric theorems as well as make geometric constructions. A portion of weekly lessons will be dedicated to reinforcing those mathematical cluster skills that have been identified on the PSAT.

HONORS GEOMETRY

Grades: 9, 10

Graduation Requirements: This fulfills the geometry graduation requirement



and satisfies 5 credits of Mathematics in geometry or the content equivalent

5 Credits – Full Year

Prerequisite(s): Successful completion of Algebra I with a “B” or higher and teacher recommendation.

This course extends and deepens the topics of the regular Geometry course.

HONORS BILINGUAL GEOMETRY

Grades: 9, 10, 11, 12

Graduation Requirements: This course is a graduation requirement and satisfies 5 credits of Mathematics in geometry or the content equivalent for identified Bilingual students only

5 Credits – Full Year

Prerequisite(s): Successful completion of Algebra I or administrative approval

This course is for Spanish Speaking students whose English Proficiency levels range from 1 to 3. Bilingual Geometry is taught by a Spanish speaking teacher who is also certified in Bilingual Education. This course follows a structured scope and sequence, introducing, reinforcing and extending topics identified by the New Jersey Student Learning Standards and the National Council of Mathematics teachers. This course includes the use of labs, group explorations, calculators, and computer software to study real world problem solving techniques and presentation strategies. Students will **model** and solve geometric problems that involve the study of transformational geometry, congruence and similarity of closed, plane figures, parallel and perpendicular lines and related angles, circles, coordinate geometry, right triangle trigonometry, fractals, matrices and sequences. Students will complete formal and informal proofs of geometric theorems as well as make geometric constructions. A portion of weekly lessons will be dedicated to reinforcing those mathematical cluster skills that have been identified on the PSAT.

ALGEBRA II

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Mathematics that builds on the concepts and skills of algebra and geometry and prepares students for college and 21st century careers

5 Credits – Full Year

Prerequisite(s): Successful completion of Algebra I. or administration approval
This course follows a structured scope and sequence, introducing, reinforcing and extending topics identified by the New Jersey Student Learning Standards and the National Council of Mathematics teachers. This course includes the use of labs, group explorations, calculators, and computer software to study real world problem solving techniques and presentation strategies. Students will model and solve algebraic problems that involve the study of linear and quadratic functions, the algebraic and geometric descriptions of inequalities, and real and complex number systems. A portion of weekly lessons will be dedicated to reinforcing those mathematical skills that are needed for the Preliminary Scholastic Aptitude Test.

BILINGUAL ALGEBRA II

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Mathematics that builds on the concepts and skills of algebra and geometry and prepares



students for college and 21st century careers for identified Bilingual Students only

5 Credits – Full Year

Prerequisite(s): Successful completion of Algebra I. or administration approval
This course is for Spanish Speaking students whose English Proficiency levels range from 1 to 3. Bilingual Geometry is taught by a Spanish speaking teacher who is also certified in Bilingual Education. This course follows a structured scope and sequence, introducing, reinforcing and extending topics identified by the New Jersey Student Learning Standards and the National Council of Mathematics teachers. This course includes the use of labs, group explorations, calculators, and computer software to study real world problem solving techniques and presentation strategies. Students will model and solve algebraic problems that involve the study of linear and quadratic functions, the algebraic and geometric descriptions of inequalities, and real and complex number systems. A portion of weekly lessons will be dedicated to reinforcing those mathematical skills that are needed for the Preliminary Scholastic Aptitude Test.

HONORS ALGEBRA II

Grades: 9, 10, 11

Graduation Requirements: This course satisfies 5 credits of Mathematics that builds on the concepts and skills of algebra and geometry and prepares students for college and 21st century careers

5 Credits – Full Year

Prerequisite(s): Successful completion of Algebra I with a “B” or higher and teacher recommendation.

This course extends and deepens the topics of the regular Algebra II course.

HONORS BILINGUAL ALGEBRA II

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Mathematics that builds on the concepts and skills of algebra and geometry and prepares students for college and 21st century careers for identified Bilingual Students only

5 Credits – Full Year

Prerequisite(s): Successful completion of Algebra I. or administration approval
This course is for Spanish Speaking students whose English Proficiency levels range from 1 to 3. Bilingual Geometry is taught by a Spanish speaking teacher who is also certified in Bilingual Education. This course extends and deepens the topics of the regular Algebra II course.

ADVANCED TOPICS IN MATHEMATICS

Grades: 11, 12

Graduation Requirements: This course is fulfills the requirement for a 3rd year of mathematics that builds on the concepts and skills of algebra and geometry and prepares students for college and 21st century careers and satisfies 5 credits of mathematics

5 Credits – Full Year

Prerequisite(s): Successful completion of Geometry or administration approval
This course follows a structured scope and sequence, introducing, reinforcing and extending topics identified by the New Jersey Student Learning Standards



and National Council of Mathematics Teachers, while focusing on authentic real world applications. This course includes the use of group exploration, calculators, and computer technology to study real world problem solving techniques and presentation strategies. Students will model and solve problems that involve the study of Set Theory, Logic, Number Representation and Calculation, Number Theory and Real Number System, Algebra Concepts, Consumer Mathematics and Financial Management, Measurement and Geometry, Counting Methods and Probability Theory, and Statistics and Mathematical Systems. A portion of weekly lessons will be dedicated to reinforcing those mathematical cluster skills that have been identified on the Scholastic Aptitude Test (SAT).

BILINGUAL ADVANCED TOPICS IN MATHEMATICS

Grades: 11, 12

Graduation Requirements: This course is fulfills the requirement for a 3rd year of mathematics that builds on the concepts and skills of algebra and geometry and prepares students for college and 21st century careers and satisfies 5 credits of mathematics

5 Credits – Full Year

Prerequisite(s): Successful completion of Geometry or administration approval This course is for Spanish Speaking students whose English Proficiency levels range from 1 to 3. Bilingual Advanced Topics is taught by a Spanish speaking teacher who is also certified in Bilingual Education. This course follows a structured scope and sequence, introducing, reinforcing and extending topics identified by the New Jersey Student Learning Standards and National Council of Mathematics Teachers, while focusing on authentic real world applications. This course includes the use of group exploration, calculators, and computer technology to study real world problem solving techniques and presentation strategies. Students will model and solve problems that involve the study of Set Theory, Logic, Number Representation and Calculation, Number Theory and Real Number System, Algebra Concepts, Consumer Mathematics and Financial Management, Measurement and Geometry, Counting Methods and Probability Theory, and Statistics and Mathematical Systems. A portion of weekly lessons will be dedicated to reinforcing those mathematical cluster skills that have been identified on the Scholastic Aptitude Test (SAT).

MATHEMATICS LAB

Grades: 9

Graduation Requirements: This course satisfies 2.5 elective credits

2.5 Credits – Half Year

Prerequisite(s): Administrative Approval

This course serves as an intervention course for students enrolled in Algebra I. This course includes an in-depth, differentiated approach to learning how to model and reason with expressions and equations. This course supports content that coincides with the regular Algebra I course.

PRE-CALCULUS

Grades: 10, 11, 12

Graduation Requirements: This course is fulfills the requirement for a 3rd year of mathematics that builds on the concepts and skills of algebra and geometry and that prepares students for college and 21st century careers and satisfies 5



credits of mathematics or 5 elective credits

5 Credits — Full Year

Prerequisite(s): Successful completion of Geometry and Algebra II with grades of “B” or higher and teacher recommendation and/or mathematics supervisor’s approval.

This course follows a structured scope and sequence, introducing, reinforcing and extending topics identified by the New Jersey Student Learning Standards and the National Council of Mathematics Teachers. This course includes the use of labs, group explorations, calculators, and computer software to study real world problem solving techniques and presentation strategies. Students will model and solve mathematical problems that involve the study of 3rd and 4th degree equations describing cubic and quadratic functions, exponential, logarithmic and trigonometric functions. A portion of weekly lessons will be dedicated to reinforcing those mathematical skills that are needed for the Scholastic Aptitude Test (SAT).

CALCULUS

Grades: 11, 12

Graduation Requirements: This course fulfills the requirement for a 3rd year of mathematics that builds on the concepts and skills of algebra and geometry and that prepares students for college and 21st century careers and satisfies 5 credits of mathematics or 5 elective credits

5 Credits — Full Year

Prerequisite(s): Successful completion of Pre-Calculus with a grade of “C” or higher.

This course follows a structured scope and sequence, introducing, reinforcing and extending topics identified by the College Board as necessary for the college course curriculum. This course includes the use of labs, group explorations and calculators to study real world problem solving techniques and presentation strategies. Students will model and solve mathematical problems that involve the study of Differential and Integral Calculus. Such topics include limits, the difference quotient, continuity, derivatives, the product, quotient and chain rules, implicit differentiation, related rates, extreme on an interval, Rolle’s Theorem, the Mean Value Theorem, concavity, antiderivatives, Riemann Sums, and indefinite integrals.

ADVANCED PLACEMENT CALCULUS AB

Grades: 11, 12

Graduation Requirements: This course fulfills the requirement for a 3rd year of mathematics that builds on the concepts and skills of algebra and geometry and that prepares students for college and 21st century careers and satisfies 5 credits of mathematics or 5 elective credits

5 Credits — Full Year

Prerequisite(s): Successful completion of Pre-Calculus with a B or higher and teacher recommendation.

This is an accelerated, rigorous, full-year course that strictly follows the course guidelines of the College Board. The AP Calculus curriculum includes the use of labs, group explorations and calculators to study real world problem solving techniques and presentation strategies. Like the standard calculus course, students will model and solve mathematical problems that involve the study of Differential and Integral Calculus. This course covers, in even greater depth,



the topics that are included in the standard calculus course. Topics to be studied include limits and continuity, differentiation of composite, implicit and inverse functions, contextual and analytical applications of differentiation, integrations and differential equations. This course is designed to challenge and prepare high achieving math students for the Advanced Placement examination that is administered in May. Colleges may offer students advanced standing or credit for one semester of college calculus based on his/her performance on this test.

ADVANCED PLACEMENT CALCULUS BC

Grades: 11, 12

Graduation Requirements: This course fulfills the requirement for a 3rd year of mathematics that builds on the concepts and skills of algebra and geometry and that prepares students for college and 21st century careers and satisfies 5 credits of mathematics or 5 elective credits

10 Credits — Every Day Full Year

Prerequisite(s): Successful completion of AP Calculus AB or Pre-Calculus and teacher recommendation and/or mathematics supervisor's approval.

Calculus BC expands upon and includes the accelerated curriculum of AP Calculus AB. This is a rigorous, full-year course that strictly follows the course guidelines of the College Board. This course covers, in even greater depth, the topics that are included in the standard calculus course. Topics to be studied include limits and continuity, differentiation of composite, implicit and inverse functions, contextual and analytical applications of differentiation, integrations and differential equations. In addition to these topics, this course will also cover parametric equations, polar coordinates, vector-valued functions and infinite sequences and series. This course is designed to challenge and prepare high achieving math students for the Advanced Placement examination that is administered in May. Colleges may offer students advanced standing or credit for one semester, or more, of college calculus based on his/her performance on this test.

ADVANCED PLACEMENT STATISTICS

Grades: 10, 11, 12

Graduation Requirements: This course fulfills the requirement for a 3rd year of mathematics that builds on the concepts and skills of algebra and geometry and that prepares students for college and 21st century careers and satisfies 5 credits of mathematics or 5 elective credits

5 Credits — Full Year

Prerequisite(s): Successful completion of Algebra 2

The AP Statistics course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes evident in the content, skills, and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

Math Electives

AP COMPUTER SCIENCE PRINCIPLES

Grades 10, 11, 12

Graduation Requirements: This course satisfied 5 elective Credits

5 Credits - Full Year

Prerequisite: Any Computer Science Course or Discrete Mathematics

Following the College Board's suggested curriculum designed to parallel college-level computer science principles courses, AP Computer Science Principles courses introduce students to the fundamental ideas of computer science and how to apply computational thinking across multiple disciplines. This course teaches students to apply creative designs and innovative solutions when developing computational artifacts. Topics such as abstraction, communication of information using data, algorithms, programming, the Internet, and global impact will be explored and mastered. Students enrolled in this course are required to participate in the AP Computer Science Principles Exam.

Science

In order to meet State and District requirements, all students must successfully complete three years of science, including biology, chemistry or Physics, and one additional lab science course.

ALGEBRA-BASED PHYSICS (9)

Grade: 9

Graduation Requirements: This course is a graduation requirement and satisfies 5 credits of Science in physics or an additional lab science course

5 Credits – Full Year

Prerequisite(s): None

In this course, students explore the physical world in terms of motion, forces, momentum and energy. Learning is conducted in a hands-on format and emphasizes the development of algebraic thinking skills as they relate to physics concepts. In addition, students apply physics concepts to real world situations such as P & S waves that result from earthquakes and the driving forces behind plate tectonics. Work in this course is grounded in Science Practices such as planning and carrying out investigations, analyzing and interpreting data, engaging in argument from evidence and using mathematics and computational thinking. Students are also asked to connect physics ideas to Cross-Cutting Concepts such as patterns, cause & effect, scale, proportion & quantity, and systems and system models. (*LAB SCIENCE COURSE*)

ALGEBRA-BASED BILINGUAL PHYSICS (9)

Grade: 9

Graduation Requirements: This course fulfills the Physics requirements and satisfies 5 credits of Science in Physics or an additional lab science course for



students identified by the Bilingual Department

5 Credits – Full Year

Prerequisite(s): None

The Bilingual Physics (9) course is for Spanish Speaking students whose English Proficiency levels range from 1 to 3. Bilingual Physics (9) is taught by a Spanish speaking teacher who is also certified in Bilingual Education. In this course, students explore the physical world in terms of motion, forces, momentum and energy. Learning is conducted in a hands-on format and emphasizes the development of algebraic thinking skills as they relate to physics concepts. In addition, students apply physics concepts to real world situations such as P & S waves that result from earthquakes and the driving forces behind plate tectonics. Work in this course is grounded in Science Practices such as planning and carrying out investigations, analyzing and interpreting data, engaging in argument from evidence and using mathematics and computational thinking. Students are also asked to connect physics ideas to Cross-Cutting Concepts such as patterns, cause & effect, scale, proportion & quantity, and systems and system models. (LAB SCIENCE COURSE)

HONORS ALGEBRA-BASED BILINGUAL PHYSICS

Grade: 9

Graduation Requirements: This course fulfills the Physics requirements and satisfies 5 credits of Science in Physics or an additional lab science course for students identified by the Bilingual Department

5 Credits – Full Year

Prerequisite(s): None

The Honors Bilingual Physics course is for Spanish Speaking students whose English Proficiency levels range from 1-3. This course provides a comprehensive study of the basic concepts of physics for students who plan to study science, engineering, or medicine at the college level. Among the topics covered are mechanics, gravitation, momentum, light, electricity and magnetism. In addition to learning how physics is related to the students' lives and the world around them, the course offers a balance of conceptual development and quantitative applications. Work in this course is grounded in Science Practices such as planning and carrying out investigations, analyzing and interpreting data, engaging in argument from evidence and using mathematics and computational thinking. Students are also asked to connect physics ideas to Cross-Cutting Concepts such as patterns, cause & effect, scale, proportion & quantity, and systems and system models. Laboratory experiments and hands-on activities are an integral part of the course. (LAB SCIENCE COURSE)

HONORS ALGEBRA-BASED PHYSICS

Grades: 9

Graduation Requirements: This course fulfills the Physics requirements and satisfies 5 credits of Science Physics or an additional lab science course

5 Credits – Full Year

Prerequisite(s): Grades of "B" or better in Algebra I, and 2 teacher recommendations.



This course provides a comprehensive study of the basic concepts of physics for students who plan to study science, engineering, or medicine at the college level. Among the topics covered are mechanics, gravitation, momentum, light, electricity and magnetism. In addition to learning how physics is related to the students' lives and the world around them, the course offers a balance of conceptual development and quantitative applications. Work in this course is grounded in Science Practices such as planning and carrying out investigations, analyzing and interpreting data, engaging in argument from evidence and using mathematics and computational thinking. Students are also asked to connect physics ideas to Cross-Cutting Concepts such as patterns, cause & effect, scale, proportion & quantity, and systems and system models. Laboratory experiments and hands-on activities are an integral part of the course. (LAB SCIENCE COURSE)

ADVANCED PLACEMENT PHYSICS

Grades: 11, 12

Graduation Requirements: This course fulfills the Physics graduation requirement and satisfies 5 credits of Science in physics or an additional lab science course

5 Credits - Full Year

Prerequisite(s): Grade of "B" or better in previous honors science course with teacher recommendation, and Geometry with teacher recommendation or Algebra II or Pre-Calculus.

The Physics course provides a systematic introduction to the main principles of physics and emphasizes the development of problem-solving ability. This course is appropriate for the college-bound students who are interested in studying physics as a basis for more advanced work in life sciences, medicine, or as a component in a non-science college program that has science requirements. The course work will culminate with the AP examination in the spring. Colleges may offer students advanced standing or credit for one semester, or more, of college physics based on their performance on this test. (LAB SCIENCE COURSE)

PHYSICS

Grades: 11, 12

Graduation Requirements: This course is a graduation requirement and satisfies 5 credits of Science in physics or an additional lab science course

5 Credits – Full Year

Prerequisite(s): Successful completion of Biology and Chemistry and a grade of C or better in the most recent science course.

This course encourages students to apply their knowledge of physical principles and basic mathematical principles to hands-on experimental challenges. During this course, students will explore the basic concepts of mechanics, energy, electrical circuits, thermodynamics, light and sound.



Students will expand scientific vocabulary and increase understanding of qualitative relationships. This course is recommended for all college bound students who are NOT planning to major in science or engineering as well as any student who is interested in manufacturing or non-degree technical fields. Work in this course is grounded in Science Practices such as planning and carrying out investigations, analyzing and interpreting data, engaging in argument from evidence and using mathematics and computational thinking. Students are also asked to connect physics ideas to Cross-Cutting Concepts such as patterns, cause & effect, scale, proportion & quantity, and systems and system models. (LAB SCIENCE COURSE)

BILINGUAL PHYSICS

Grades: 11, 12

Graduation Requirements: This course is a graduation requirement and satisfies 5 credits of Science in physics or an additional lab science course

5 Credits – Full Year

Prerequisite(s): Successful completion of Biology and Chemistry and a grade of C or better in the most recent science course.

Bilingual Physics is a course designed for Spanish speaking students whose English Proficiency levels range from 1 to 3. Bilingual Physics is taught by a Spanish speaking teacher who is also certified in Bilingual Education. This course encourages students to apply their knowledge of physical principles and basic mathematical principles to hands-on experimental challenges. During this course, students will explore the basic concepts of mechanics, energy, electrical circuits, thermodynamics, light and sound. Students will expand scientific vocabulary and increase understanding of qualitative relationships. This course is recommended for all college bound students who are NOT planning to major in science or engineering as well as any student who is interested in manufacturing or non-degree technical fields. Work in this course is grounded in Science Practices such as planning and carrying out investigations, analyzing and interpreting data, engaging in argument from evidence and using mathematics and computational thinking. Students are also asked to connect physics ideas to Cross-Cutting Concepts such as patterns, cause & effect, scale, proportion & quantity, and systems and system models. (LAB SCIENCE COURSE)

CHEMISTRY

Grades: 10

Graduation Requirements: This course is a graduation requirement and satisfies 5 credits of Science in chemistry, or an additional lab science course

5 Credits – Full Year

Prerequisite(s): Successful completion of Algebra-Based Physics or Biology.

In this course, themes such as the life cycle of stars, carbon cycling in urban gardens and climate change provide a framework for integrating chemistry core concepts. This course expands students' understanding of fundamental structure and properties of matter, introduces the basics of chemistry, uses the periodic table as an information tool and explores chemical bonding, and the nature of matter in solution. Work in this course is grounded in Science Practices such as analyzing and interpreting data, developing and using models, engaging in argument from evidence and using mathematics and computational thinking. Students are also asked to connect chemistry ideas to



Cross-Cutting Concepts such as patterns, cause & effect, energy & matter, and structure & function. Laboratory experiments and hands-on activities are an integral part of the course. *(LAB SCIENCE COURSE)*

BILINGUAL CHEMISTRY

Grades: 10

Graduation Requirements: This course fulfills the Chemistry graduation requirement and satisfies 5 credits of Science in chemistry, or an additional lab science course

5 Credits – Full Year

Prerequisite(s): Successful completion of Algebra-Based Bilingual Physics or Bilingual Biology.

Bilingual Chemistry is a course designed for Spanish speaking students whose English Proficiency levels range from 1 to 3. Bilingual Chemistry is taught by a Spanish speaking teacher who is also certified in Bilingual Education. In this course, themes such as the life cycle of stars, carbon cycling in urban gardens and climate change provide a framework for integrating chemistry core concepts. This course expands students' understanding of fundamental structure and properties of matter, introduces the basics of chemistry, uses the periodic table as an information tool and explores chemical bonding, and the nature of matter in solution. Work in this course is grounded in Science Practices such as analyzing and interpreting data, developing and using models, engaging in argument from evidence and using mathematics and computational thinking. Students are also asked to connect chemistry ideas to Cross-Cutting Concepts such as patterns, cause & effect, energy & matter, and structure & function. Laboratory experiments and hands-on activities are an integral part of the course. *(LAB SCIENCE COURSE)*

HONORS CHEMISTRY

Grades: 10

Graduation Requirements: This course fulfills the Chemistry graduation requirement and satisfies 5 credits of Science in chemistry or an additional lab science course

5 Credits – Full Year

Prerequisite(s): Grade of "B" or better in previous honors science course or regular science course with teacher recommendation.

Successful completion of Algebra-Based Physics or Biology.

This course follows the same framework as the general Chemistry course (see above) and builds upon it. Students should expect to cover the same material in more depth and with a greater emphasis on critical thinking about the key concepts. To do so, students are expected to delve further into data analysis and draw valid conclusions based on their analysis. As in general Chemistry, the course is grounded in Science Practices and Cross-Cutting Concepts. Laboratory experience and hands-on activities are an integral part of the course. *(LAB SCIENCE COURSE)*

HONORS BILINGUAL CHEMISTRY

Grades: 10

Graduation Requirements: This course fulfills the Chemistry graduation requirement and satisfies 5 credits of Science in chemistry or an additional lab science course



5 Credits – Full Year

Prerequisite(s): Grade of “B” or better in previous honors science course or regular science course with teacher recommendation.

Successful completion of Algebra-Based Bilingual Physics or Biology.

This course follows the same framework as the general Chemistry course (see above) and builds upon it. Students should expect to cover the same material in more depth and with a greater emphasis on critical thinking about the key concepts. To do so, students are expected to delve further into data analysis and draw valid conclusions based on their analysis. As in general Chemistry, the course is grounded in Science Practices and Cross-Cutting Concepts. Laboratory experience and hands-on activities are an integral part of the course. (*LAB SCIENCE COURSE*)

ADVANCED PLACEMENT CHEMISTRY

Grades: 11, 12

Graduation Requirements: This course satisfies 5 credits of Science in an additional lab science course or 5 elective credits

5 Credits – Full Year

Prerequisite(s): Grade of “B” or better in previous Chemistry course with teacher recommendation. Co/prerequisite: Algebra II.

The AP Chemistry course is designed to be the equivalent of the general Chemistry course usually taken during the first college year. All college bound students who are planning to major in science, are strongly encouraged to take this highly challenging course. The topics of study will include, but not be limited to chemical kinetics, chemical equilibrium, chemical thermodynamics and electrochemistry. The course work will culminate with the AP examination in the spring. Colleges may offer students advanced standing or credit for one or more semesters of college chemistry based on their performance on this test. (*LAB SCIENCE COURSE*)

BIOLOGY

Grades: 11

Graduation Requirements: This course is a graduation requirement and satisfies 5 credits of Science in Biology

5 Credits – Full Year

Prerequisite(s): Successful completion of Chemistry.

In this course, themes such as energy, evolution, cell biology, genetics and ecology provide a framework for integrating key biology concepts. Work in this course is grounded in Science Practices such as asking questions, planning and carrying out investigations, developing and using models, and engaging in argument from evidence. Students are also asked to connect biology ideas to Cross-Cutting Concepts such as systems and system models, energy & matter, structure & function, and stability & change.—laboratory experiments and hands-on activities are an integral part of the course. (*LAB SCIENCE COURSE*)

BILINGUAL BIOLOGY

Grades: 11

Graduation Requirements: This course fulfills the Biology requirement and satisfies 5 credits of Science in Biology

5 Credits – Full Year

Prerequisite(s): Successful completion of Chemistry.



Bilingual Biology is a course designed for Spanish speaking students whose English Proficiency levels range from 1 to 3. Bilingual Chemistry is taught by a Spanish speaking teacher who is also certified in Bilingual Education. In this course, themes such as energy, evolution, cell biology, genetics and ecology provide a framework for integrating key biology concepts. Work in this course is grounded in Science Practices such as asking questions, planning and carrying out investigations, developing and using models, and engaging in argument from evidence. Students are also asked to connect biology ideas to Cross-Cutting Concepts such as systems and system models, energy & matter, structure & function, and stability & change.—Laboratory experiments and hands-on activities are an integral part of the course. (*LAB SCIENCE COURSE*)

HONORS BILINGUAL BIOLOGY

Grades: 11 (9th with teacher recommendation)

Graduation Requirements: This course fulfills the Biology graduation requirement

5 Credits – Full Year

Prerequisite(s): Grade of “B” of higher in Bilingual Chemistry, teacher recommendation

Bilingual Biology is a course designed for Spanish speaking students whose English Proficiency levels range from 1 to 3. Bilingual Chemistry is taught by a Spanish speaking teacher who is also certified in Bilingual Education. This course follows the same framework as the general Bilingual Biology course (see above) and builds upon it. Students should expect to cover the same material in more depth and with a greater emphasis on critical thinking about the key concepts. To do so, students are expected to delve further into data analysis and draw valid conclusions based on their analysis. As in general Biology, the course is grounded in Science Practices and Cross-Cutting Concepts. Laboratory experiments and hands-on activities are an integral part of the course. (*LAB SCIENCE COURSE*)

HONORS BIOLOGY

Grades: 11 (9th with teacher recommendation)

Graduation Requirements: This course fulfills the Biology graduation requirement

5 Credits – Full Year

Prerequisite(s): Grade of “B” or better in previous honors science course or regular science course with teacher recommendation.

Successful completion of Chemistry for students in grade 11.

This course follows the same framework as the general Biology course (see above) and builds upon it. Students should expect to cover the same material in more depth and with a greater emphasis on critical thinking about the key concepts. To do so, students are expected to delve further into data analysis and draw valid conclusions based on their analysis. As in general Biology, the course is grounded in Science Practices and Cross-Cutting Concepts. Laboratory experiments and hands-on activities are an integral part of the course. (*LAB SCIENCE COURSE*)

ADVANCED PLACEMENT BIOLOGY

Grades: 11, 12

Graduation Requirements: This course satisfies 5 credits of Science in an



additional lab science course or 5 elective credits

5 Credits - Full Year

Prerequisite(s): Grade of “B” or better in previous Biology course with teacher recommendation.

The AP Biology course is designed to be the equivalent of a college introductory Biology course usually taken by biology majors during their first year. All college bound students who are planning to major in the life and health sciences, are strongly encouraged to take this highly challenging course. The topics of study focus on the chemistry of life, cells, cellular energetic, heredity, molecular genetics, evolutionary biology, diversity of organisms, structure and function of plants and animals, and ecology. The course work will culminate with the AP examination in the spring. Colleges may offer students advanced standing or credit for one semester, or more, of college biology based on their performance on this test. (*LAB SCIENCE COURSE*)

ENVIRONMENTAL SCIENCE

Graduation Requirements: This course satisfies 5 credits of Science in an additional lab science course or 5 elective credits

Grade 9

5 Credits – Full Year

Prerequisite(s):

Environmental Science is a lab based science course that advances student understanding of current environmental challenges with an emphasis on using the science and engineering practices to solve problems and propose solutions. The course involves connections among various areas of science such as biology, chemistry, and physics. Students will study human population growth, natural resources, and ecosystem dynamics. This course can serve as one of the three laboratory sciences required for graduation and is recommended as an alternative course option in place of algebra-based physics in the 9th grade

BILINGUAL ENVIRONMENTAL SCIENCE

Graduation Requirements: This course satisfies 5 credits of Science in an additional lab science course or 5 elective credits

Grade 9

5 Credits – Full Year

Prerequisite(s):

Bilingual Environmental Science is a lab based science course taught in Spanish by bilingual certified teachers that advances multilingual learners' understanding of current environmental challenges with an emphasis on using the science and engineering practices to solve problems and propose solutions. This bilingual course involves connections among various areas of science such as biology, chemistry, and physics. Multilingual learners will study human population growth, natural resources, and ecosystem dynamics. This bilingual course can serve as one of the three laboratory sciences required for graduation and is recommended as an alternative course option in place of algebra-based physics in the 9th grade.



ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

Graduation Requirements: This course satisfies 5 credits of Science in an additional lab science course or 5 elective credits

Grade(s) 11, 12

5 Credits – Full Year

Prerequisite(s): Grade of “B” or better in Honors Biology and Honors Chemistry or regular Biology and Chemistry with teacher recommendation.

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. This course work will culminate with the AP examination in the spring. Colleges may offer students advanced standing or credit for one semester, or more, of college environmental science based on their performance on the AP test. (LAB SCIENCE COURSE)

Science Electives

ANATOMY & PHYSIOLOGY I

Grades: 11, 12

Graduation Requirements: This course satisfies 2.5 credits of Science in an additional lab science course or 2.5 elective credits

2.5 Credits – 1 Semester

Prerequisite(s): Successful completion of Biology or concurrently with Biology
As you make your way through this lab science course, you will be learning about one of the most fascinating subjects possible -- your own body. If you are to appreciate emerging discoveries in medicine, to understand new techniques for detecting and treating disease, and to make use of published facts on how to stay healthy, it is important to learn about the workings of your body and the basic concepts that form the foundation of Anatomy and Physiology. (LAB SCIENCE COURSE)

ANATOMY & PHYSIOLOGY II

Grades: 11, 12

Graduation Requirements: This course satisfies 2.5 credits of Science in an additional lab science course or 2.5 elective credits

2.5 Credits – 1 Semester

Prerequisite(s): Anatomy and Physiology I

During the course students will use computer simulations, technology, research, fetal pig dissections, high-level guided lectures, and hands-on activities to investigate different topics of human anatomy and physiology. The course is divided into 5 units: Endocrine System, Muscular System, Neural System, Lymphatic System and Urinary System. Each unit includes a research project assessment in which the students will need to present their knowledge over a disease or disorder for the system.

ANIMAL SCIENCE

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 2.5 elective credits

2.5 credit—1 Semester

Prerequisite(s): None.

Students will engage in inquiry-based activities and projects in animal anatomy and behavior, as well as selection and marketing. The laboratory skills, thought processes, and communication techniques practiced are the fundamentals used by veterinarians, zoologists, livestock producers, and other animal science industry members and leaders. Throughout the semester, students will be challenged to consider perceptions and preferences of individuals within local, regional, and world markets about costs, ethics, and concerns regarding animal welfare and the environment. Animal Science will provide students with a comprehensive understanding of animal science and medicine, biology, or agricultural production, processing and marketing, so they may go on to post-secondary study in one or more of the above topics.

INTRODUCTION TO FORENSIC SCIENCE

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 2.5 elective credits

2.5 credit—1 Semester

Prerequisite(s): Successful completion of Biology or Concurrently with Biology
This is a science elective course designed to give the student background in forensic science and criminalistics used in today's law enforcement. Throughout the course, students will have the opportunity to learn how forensic scientists analyze the evidence found at crime scenes, and elsewhere, to determine the suspect's guilt or innocence in a particular crime. Biological and chemical background knowledge needed to perform tasks will be investigated, as well as how that information is used by particular sub-disciplines within the role of forensic scientist.

THE PHYSICS OF PHOTOGRAPHY

Grades 10, 11, 12

Graduation Requirements: This course satisfies 2.5 elective credits

2.5 credit—1 Semester

Prerequisite(s): Successful completion of Physics

This course will explore the artistic aspects, physics foundations, and techniques of photography with the goals of enabling students to expand their knowledge of photography as an art form, to develop a deeper and broader understanding of the scientific basis of photography, and to improve their photographic technique. Although the primary focus is on digital photography, most concepts apply to photography in general and are also directly applicable to film photography. With an improved understanding of the limitations and compromises behind digital photography, students will be better prepared for unexpected and dynamic photographic situations. Topics include the physics of light, geometric optics, the physics of colors, the science of human visual system, the quality of light, exposure control, depth of field, aesthetics, composition and patterns, perspective, spatial and color perception, exposure, metering, digital sensors, analogies to biological systems, color filter arrays, file formats, optical and computational image artifacts. Through observational, testing, and application laboratory experiments, and critiques, students will

expand their understanding of physics and its application to digital photography while exploring their creativity to broaden the possibilities and improve the quality of their photographs.

Social Studies

In order to meet State and District requirements, all students must successfully complete 3 years of Social Studies. These courses must include the topics of Civics, United States History and Geography.

WORLD HISTORY

Grade: 9

Graduation Requirements: This course is required for graduation and fulfills the World History requirement

5 Credits – Full Year

Prerequisite(s): None.

World History is a five-credit course required of all students for graduation. The course is designed as the first part in a three-course program whereby students will be exposed to and master the material and skills in the NJSLs for Social Studies by Grade 12. World History is broken into four pieces, paced to coincide with the four marking periods of the academic year. The four sections are: The Age of Global Encounters (1400 – 1750), The Age of Revolutionary Change (1750 – 1914); The Era of the Great Wars (1914 – 1945); The Modern World (1945 – 2007). This course is designed to move students directly into United States History I with a sound understanding of the political, economic, and social forces that have shaped and will continue to transform the world's civilizations.

BILINGUAL WORLD HISTORY

Grade: 9

Graduation Requirements: This course is required for graduation and fulfills the World History requirement

5 Credits – Full Year

Prerequisite(s): None.

Bilingual World History is a course designed for Spanish Speaking students whose levels of English proficiency range from Levels 1 to 3. This course is taught by a Bilingual certified teacher. It is a five-credit course required for graduation. The course is designed as the first part in a three-course program whereby students will be exposed to and master the material and skills in the New Jersey Student Learning Standards for Social Studies by Grade 12. Bilingual World History is broken into four pieces, paced to coincide with the four marking periods of the academic year. The four sections are: The Age of Global Encounters (1400 – 1750), The Age of Revolutionary Change (1750 – 1914); The Era of the Great Wars (1914 – 1945); The Modern World (1945 – 2007). This course is designed to move students directly into United States History I or Bilingual United States History I with a sound understanding of the political, economic, and social forces that have shaped and will continue to transform the world's civilizations.

HONORS WORLD HISTORY

Grade: 9

Graduation Requirements: This course is required for graduation and fulfills the World History requirement

5 Credits – Full Year

Prerequisite(s): Grade of an “A” in 8th grade social studies and teacher recommendation.

This course extends and deepens the topics of the regular course.

HONORS BILINGUAL WORLD HISTORY

Grade: 9

Graduation Requirements: This course is required for graduation and fulfills the World History requirement

5 Credits – Full Year

Prerequisite(s): Grade of an “A” in 8th grade social studies and teacher recommendation.

Honors Bilingual World History is a course designed for Spanish Speaking students whose levels of English proficiency range from Levels 1 to 3. This course is taught by a Bilingual certified teacher. This course extends and deepens the topics of the regular course.

UNITED STATES HISTORY I

Grades: 10

Graduation Requirements: This course is a graduation requirement and fulfills one year of the United States History

5 Credits – Full Year - Required for Graduation

Prerequisite(s): Successful completion of World History or administrative approval.

United States History I is a five-credit course required of all students for graduation. The course is designed as the middle part of a three-course program whereby students will be exposed to and master the material and skills in the NJSLs for Social Studies by Grade 12. United States History I is broken into four pieces, paced to coincide with the four marking periods of the academic year. The four sections are: Becoming A Nation; A Nation Divided; A Growing Nation; Emergence of Modern America. This course is designed to move students directly into United States History II and successfully complete their study of this country and its place in the global community.

HONORS UNITED STATES HISTORY I

Grade: 10

Graduation Requirements: This course is a graduation requirement and fulfills one year of the United States History

5 Credits – Full Year

Prerequisite(s): Grade of an “A” in World History or minimum grade of a “B” in Honors World History.

This course extends and deepens the topics of the regular course.

BILINGUAL UNITED STATES HISTORY I

Grades: 10

Graduation Requirements: This course fulfills the graduation requirement for one year of United States History

5 Credits – Full Year

Prerequisite(s): Successful completion of Bilingual World History.

Bilingual United States History I is a course designed for Spanish Speaking students whose levels of English proficiency range from Levels 1 to 3. This course is taught by a Bilingual certified teacher. It is a five-credit course required for graduation. The course is designed as the middle part of a three-course program whereby students will be exposed to and master the material and skills in the New Jersey Student Learning Standards for Social Studies by Grade 12. Bilingual United States History I is broken into four pieces, paced to coincide with the four marking periods of the academic year. The four sections are: Becoming A Nation; A Nation Divided; A Growing Nation; Emergence of Modern America. This course is designed to move students directly into United States History II or Bilingual United States History II and successfully complete their study of this country and its place in the global community.

UNITED STATES HISTORY II

Grades: 11, 12

Graduation Requirements: This course is required for graduation and fulfills the second year of the United States History

5 Credits – Full Year

Prerequisite(s): Successful completion of United States History I.or administrative approval

United States History II is a five-credit course required of all students for graduation. The course is designed as the final part in a three-course program whereby students will be exposed to and master the material and skills in the NJCCCS for Social Studies by Grade 12. United States History II is broken into four pieces, paced to coincide with the four marking periods of the academic year. The four sections are: The Great Depression and the New Deal; World War II and The Cold War; Civil Rights and Domestic Conflicts; Contemporary United States. This course is designed to transition students into the world beyond New Brunswick High School.

BILINGUAL UNITED STATES HISTORY II

Grades: 11, 12

Graduation Requirements: This course fulfills the second year of the United States History requirement for graduation

5 Credits – Full Year

Prerequisite(s): Successful completion of Bilingual United States History I.

Bilingual United States History II is a course designed for Spanish Speaking students whose levels of English proficiency range from Levels 1 to 3. This course is taught by a Bilingual certified teacher. United States History II is a five-credit course required for graduation. The course is designed as the final part in a three-course program whereby students will be exposed to and master the material and skills in the New Jersey Student Learning Standards for Social Studies by Grade 12. Bilingual United States History II is broken into four pieces, paced to coincide with the four marking periods of the academic



year. The four sections are: The Great Depression and the New Deal; World War II and The Cold War; Civil Rights and Domestic Conflicts; Contemporary United States. This course is designed to transition students into the world beyond New Brunswick High School.

HONORS UNITED STATES HISTORY II

Grade: 11, 12

Graduation Requirements: This course fulfills the second year of the United States History requirement for graduation

5 Credits

Prerequisite(s): Grade of an “A” in US History I or minimum grade of a “B” in Honors US History I.

This course extends and deepens the topics of the regular course. It is designed for students seeking a challenge in history but not ready to take AP History in Grade 11.

HONORS BILINGUAL UNITED STATES HISTORY II

Grade: 11, 12

Graduation Requirements: This course fulfills the second year of the United States History requirement for graduation

5 Credits

Prerequisite(s): Grade of an “A” in US History I or minimum grade of a “B” in Honors US History I.

Honors Bilingual United States History II is a course designed for Spanish Speaking students whose levels of English proficiency range from Levels 1 to 3. This course is taught by a Bilingual certified teacher. This course extends and deepens the topics of the regular course. It is designed for students seeking a challenge in history but not ready to take AP History in Grade 11.

ADVANCED PLACEMENT UNITED STATES HISTORY

Grades: 11, 12

Graduation Requirements: This course fulfills the second year of the United States History requirement for graduation

5 Credits – Full Year

Prerequisite(s): Successful completion of World History and US History I and teacher recommendation.

AP US History is a challenging course designed to be the equivalent of a freshman college course in a high school setting. It is a survey of American History from the Age of Exploration to the present. It may be taken by any Junior or Senior in addition to, or in place of, U.S. History II. Students will be required to apply the effort necessary to act as an historian and develop the ability to analyze historical evidence to determine its validity and relevance and identify point of view and bias. Students can expect to do a great deal of reading not only in the text, but from outside sources and research both in libraries and through the Internet. Summer readings may be assigned at the teacher’s discretion. AP US History is organized on the assumption that students will sit for the AP examination in May, which will allow qualifying candidates to possibly receive college credit for the course if they score a 4 or 5 on the AP US History Exam.

Social Studies Electives

AFRICAN AMERICAN and AFRICAN DIASPORA STUDIES

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 elective credits

2.5 Credits - One Semester

Prerequisite(s): None.

African American Studies offers students an opportunity to analyze the geography, history and the diverse cultures of Africa. Students will gain an appreciation of the impact which Africans and Africa have had on other regions of the world, particularly the United States. Highlights of the course will include the study of ancient Africa, traditional African cultures, colonialism and nationalism in Africa, migration of Africans and their culture to the United States, and African Americans and contemporary life in the United States.

INTRODUCTION TO PSYCHOLOGY

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 elective credits

2.5 Credits – One Semester

Prerequisite(s): None.

Psychology creates an environment for students to explore the science of behavior. Students delve into the workings of the human brain as well as examine the effects that living in a society has on the development of an individual. Students are challenged to internalize the tenets of this social science and apply their new knowledge of accepted thought and process in continual self-examination. Students are given the opportunity to practice techniques that can improve their dealings with stress, as well as their ability to learn, to memorize, and to handle situations successfully. As an elective in the social sciences, Psychology takes students through five units in order to effectively master the foundations of the field. The units are: The Methods of Madness; The Biopsychological Domain, The Developmental Domain; The Cognitive Domain; and Variations in Behavior.

ADVANCED PLACEMENT PSYCHOLOGY

Grades: 10, 11, 12

Graduation Requirement: This course satisfies 5 elective credits

5 Credits – Full Year

Prerequisite(s): Successful completion of Introduction to Psychology and teacher recommendation.

Advanced Placement Psychology was developed to give students the opportunity to experience a college-level course and to receive university credit and/or appropriate university placement for their performance on the Advanced Placement Examination. The course is organized with the expectation that students will participate in the annual Advanced Placement Examination that is administered by the College Board. AP Psychology is a detailed and demanding overview of the field of psychology and requires a high degree of commitment and independent learning. Students will explore topics that show the multiple facets of the field and offer a sound introduction to psychological theory. At the completion of the course,

students will be better prepared to pursue more advanced topics in psychology and other related social sciences. The scope and content of the course is based on the curriculum that is provided by the College Board Advanced Placement Program.

WOMEN'S STUDIES

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 2.5 elective credits

2.5 Credits – One Semester

Prerequisite(s): None.

This course will examine how modern gender roles have been shaped and changed by the events and trends of the 20th Century. Gender roles in the family and workplace are affected by social, economic and political changes. Students will explore how key events of the 20th century also influenced women in different regions around the world. One of the goals of this course is to break down preconceived notions and to inform and change attitudes about women in American society as well as women around the world.

CRIMINAL JUSTICE

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 elective credits

2.5 Credits – One Semester

Prerequisite(s): None.

This course is designed to provide students with an understanding of how society, through police, courts and corrections, attempts to deal with the problem of crime. The course examines Criminal Justice through units entitled: the Constitution and the Formation of American Law Enforcement; Social Control within the Democratic Process; Criminal Justice Process; Development of American Policing; Historical Development of Institutional Corrections. Some of the essential questions that will guide students' in the course are: Do laws restrict us or free us? How does the criminal justice process protect us? Why haven't we always punished people the same way?

LATIN AMERICAN STUDIES

Grades: 9,10, 11, 12

Graduation Requirements: This course satisfies 2.5 elective credits

2.5 Credits – One Semester

Prerequisite(s): None.

This course provides an opportunity for students to explore the various historical and contemporary Latin American experiences. This is an interdisciplinary approach that will solicit insights from the social sciences to examine the various cultures, literature, music, art, etc., that have contributed to the unique history of the Latin American diaspora. Students will explore themes that center on the American indigenous civilizations in addition to colonial, political, economic, social and cultural legacies.

MOCK TRIAL

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 2.5 elective credits

2.5 Credits – One Semester



Prerequisite(s): None.

This elective course is designed to educate the students about the basis of our American judicial system and the mechanics of litigation. They develop an understanding of how both criminal and civil trials work, and learn about the various roles played by participants in the trial court process. Students act as plaintiff and defense attorneys, prosecutors, witnesses and judges. Students also work on important skills such as public speaking, critical thinking, negotiation, communication, debating and team building.



World Language

In order to meet State and District requirements, all students must successfully complete 10 credits in world languages or demonstrate proficiency in a World Language. All world language courses have technology included for assessment and instruction.

ENGLISH 1

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of World Language
5 Credits – Full Year

Prerequisite (s): This course is for Multilingual Learners who are new to the country and who are taking ESL I simultaneously and for the first time. This course provides newcomer multilingual learners with the ability to communicate in English and construct meaning through reading, writing, listening and speaking. It exposes them to new experiences that will make them more culturally aware. Students will spend time communicating in meaningful ways, engaging in activities that are relevant and authentic which will significantly impact their ability to effectively communicate both linguistically and culturally in English. Students will develop appropriate English language proficiency skills as outlined in the New Jersey Student Learning Standards for World Languages and the WIDA English Proficiency Development Standards.

ENGLISH 1 SIFE

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of World Language
5 Credits – Full Year

Prerequisite (s): Recommendation from Bilingual Testing and Placement Center

This course is for Multilingual Learners who are new to the country and who have had interrupted formal education in their home countries. Students in this course are taking ESL I SIFE simultaneously and for the first time.

This course provides newcomer multilingual learners with the ability to communicate in English and construct meaning through reading, writing, listening and speaking. It exposes them to new experiences that will make them more culturally aware. Students will spend time communicating in meaningful ways, engaging in activities that are relevant and authentic which will significantly impact their ability to effectively communicate both linguistically and culturally in English. Students will develop appropriate English language proficiency skills as outlined in the New Jersey Student Learning Standards for World Languages and the WIDA English Proficiency Development Standards.

ENGLISH 2

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of World Language
5 Credits – Full Year



Prerequisite (s): This course is for Multilingual Learners who are new to the country and who are taking ESL II simultaneously and for the first time. The objective of this course is to increase the student's proficiency in reading and writing skills through continued development of language features and critical thinking skills. Students will explore essential themes that illuminate contemporary global issues and dynamics within American society. By engaging in authentic and relevant activities, the course aims to enhance students' English language proficiency as per the New Jersey Student Learning Standards for World Languages and WIDA English Proficiency Development Standards, fostering deeper understanding, critical thinking, and civic engagement.

SPANISH FOR SPANISH SPEAKERS

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of World Language
5 Credits – Full Year

Prerequisite (s): For students whose home language is Spanish and who are (or were) in the Bilingual Program.

Spanish for Spanish Speakers is a course specifically designed for Spanish speaking students. This course will create an environment that values students' background knowledge and experiences. Spanish for Spanish Speakers is designed to maintain and improve proficiency in the Spanish Language. Students will develop and strengthen their listening, speaking, reading and writing skills through a variety of strategies that promote critical thinking skills. In addition, students will acquire study skills that will assist them in attaining academic success.

SPANISH I

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of World Language
5 Credits – Full Year

Prerequisite(s): For students whose home language is not Spanish.

Spanish I is the introductory course for students who want to develop the basic communication skills of listening, speaking, reading, writing, and vocabulary building in SPANISH. The fundamental principles of oral expression are central to the course. Progressively greater emphasis is placed on reading, and writing skills. Aspects of Hispanic life, culture, and geography and career awareness are introduced through selected readings and class discussions.

SPANISH II

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of World Language
5 Credits – Full Year

Prerequisite(s): For students whose home language is not Spanish.

Successful completion of Spanish I or Spanish Level Placement Test.

Spanish II is an intermediate course designed to expand the fundamental principles acquired in Spanish I. The course provides students with an active command of basic spoken and written language. Listening, comprehension, oral ability and independent use of structural principles are emphasized. Reading and classroom discussions of aspects of Hispanic life, culture, history,



geography and career awareness are integral parts of the program.

SPANISH III

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of World Language

5 Credits – Full Year

Prerequisite(s): Successful completion of Spanish II, Spanish For Spanish Speakers, or Spanish Level Placement Test.

Spanish III is an advanced course for students who want to achieve greater fluency in the language. Emphasis is placed on the individual's ability to understand and use idiomatic Spanish orally and in writing. Grammar is analyzed and studied through readings in Hispanic history, culture and literature. Career opportunities will be explored.

SPANISH IV

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of World Language

5 Credits – Full Year

Prerequisite(s): Successful completion of Spanish III or Spanish For Spanish Speakers, or Spanish Level Placement Test.

Spanish IV is the most advanced course for students who wish to achieve greater fluency in the language. Emphasis is placed on the individual's ability to understand and use idiomatic SPANISH orally and in writing. Syntax and style are studied through readings in Hispanic history, culture and literature. Career opportunities will be highlighted.

ADVANCED PLACEMENT SPANISH

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of World Language

5 Credits – Full Year

Prerequisite(s): Grade of "B" or better in Spanish IV, Spanish for Spanish Speakers, or Teacher's/ Bilingual Office Recommendation

The AP Spanish course is designed to be the equivalent of a college introductory Spanish course. All college bound students who are planning to major in World Language Spanish, are strongly encouraged to take this highly challenging course. The topics of study focus on Spanish language grammar, Spanish literature and important cultural elements of Spanish speaking countries. The course work will culminate with the AP examination in the spring. Colleges may offer students advanced standing or credit for one semester, or more of college Spanish based on their performance on this test.

FRENCH I

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of World Language

5 Credits – Full Year

Prerequisite(s): None.

French I is the introductory course for students who want to develop the basic communication skills of listening, speaking, reading and writing and vocabulary building in French. The fundamental principles of oral expression are central to the course. Progressively greater emphasis is placed on reading



and writing skills. Aspects of French life, culture, geography, and career awareness are introduced through selected readings and class discussions.

FRENCH II

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of World Language
5 Credits - Full Year

Prerequisite(s): Successful completion of French I.

French II is an intermediate course designed to expand the fundamentals principles acquired in French I. The course provides students with an active command of basic spoken and written language. Listening comprehension, oral ability and independent use of structural principles are emphasized. Readings and classroom discussions of aspects of French life, culture, and geography and career awareness are integral parts of the program.

FRENCH III

Grades: 11, 12

Graduation Requirements: This course satisfies 5 credits of World Language
5 Credits – Full Year

Prerequisite(s): Successful completion of French II.

French III is an advanced course that provides students with an introduction to French literature. There is an emphasis on the appreciation of tone, style and literary merit. Structural principles are reviewed and reinforced through classroom discussions, oral presentations and written papers to improve in self expression. Culture and career awareness are also emphasized.

FRENCH IV

Grades: 12

Graduation Requirements:
5 Credits – Full Year

Prerequisite(s): Successful completion of French III.

French IV is the most advanced course for students who wish to achieve greater fluency in the language. Emphasis is placed on the individual's ability to understand and use idiomatic French orally and in writing. Readings are selected from various periods and genres to increase students' awareness of literary trends, styles and culture. Career opportunities will be highlighted.

ITALIAN I

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of World Language
5 Credits – Full Year

Prerequisite(s): None.

Italian I is the introductory course for students who want to develop the basic communication skills of listening, speaking, reading and writing and vocabulary building in Italian. The fundamental principles of oral expression are central to the course. Progressively greater emphasis is placed on reading and writing skills. Aspects of Italian life, culture, geography, and career awareness are introduced through selected readings and class discussions.

ITALIAN II

Grades: 10, 11, 12



Graduation Requirements: This course satisfies 5 credits of World Language
5 Credits – Full Year

Prerequisite(s): Successful completion of Italian I

Italian II is an intermediate course designed to expand the fundamental principles acquired in Italian I. The course provides students with an active command of basic spoken and written language. Listening, comprehension, oral ability and independent use of structural principles are emphasized. Reading and classroom discussions of aspects of Italian life, culture, history, geography and career awareness are integral parts of the program.

ITALIAN III

Grades: 11, 12

Graduation Requirements: This course satisfies 5 credits of World Language
5 Credits – Full Year

Prerequisite(s): Successful completion of Italian II

Italian III is an advanced course for students who want to achieve greater fluency in the language. Emphasis is placed on the individual's ability to understand and use idiomatic Italian orally and in writing. Grammar is analyzed and studied through readings in Italian history, culture and literature. Career opportunities will be explored.

ITALIAN IV

Grades: 12

Graduation Requirements:

5 Credits – Full Year

Prerequisite(s): Successful completion of Italian III.

Italian IV is the most advanced course for students who wish to achieve greater fluency in the language. Emphasis is placed on the individual's ability to understand and use idiomatic Italian orally and in writing. Readings are selected from various periods and genres to increase students' awareness of literary trends, styles and culture. Career opportunities will be highlighted.



NJDOE Seal of Biliteracy Recipients 2019

Comprehensive Health and Physical Education

PHYSICAL EDUCATION 9

Grade: 9

Graduation Requirements: This course is a graduation requirement and satisfies 2.5 credits of Physical Education

2.5 Credits - Semester

Prerequisite(s): None.

This Physical Education course for the ninth grade students consists of a variety of team and individual activities. Activities offered are as follows: Volleyball, Weight Training/Fitness, Softball, Handball, Pickleball/Racquet sports and Soccer. Daily exercise/warm-up is a requirement for each class lesson. All students must be appropriately dressed and all are expected to participate unless a physician has issued an excuse to the school nurse.

HEALTH 9

Grade: 9

Graduation Requirements: This course is a graduation requirement and satisfies 2.5 credits of Health Education

2.5 Credits - One Semester

This Health course for the ninth grade students consists of the following: Character in Relationships, Human reproduction, Pregnancy, Childbirth, Birth control methods and sexually transmitted diseases.

PHYSICAL EDUCATION 10

Grade: 10

Graduation Requirements: This course is a graduation requirement and satisfies 2.5 credits of Physical Education

2.5 Credits - One Semester

Prerequisite(s): None.

This Physical Education course for the tenth grade student consists of a variety of team and individual activities. Activities offered are as follows: Tchoukball, Weight Room/Fitness, Basketball, Football, Recreational games and Volleyball. Daily exercise warm-up is a requirement for each class lesson. All students must be appropriately dressed and all are expected to participate unless a physician has issued an excuse to the school nurse.



HEALTH 10 (Drivers' Ed)

Grade: 10

Graduation Requirements: This course is a graduation requirement and satisfies 2.5 credits of Health Education

2.5 Credits - One Semester

Prerequisite(s): None.

This Health course for the tenth grade student deals with driver education. Students are exposed to driving techniques and strategies that will prepare them to become responsible and safe drivers. The specific laws of the State of New Jersey are also discussed and the student is given an opportunity to take the State written test in school. Students understand the importance of attitude and fitness when driving a car including the implications of drug, alcohol and tobacco use.

PHYSICAL EDUCATION 11

Grade: 11

Graduation Requirements: This course is a graduation requirement and satisfies 2.5 credits of Physical Education

2.5 Credits - One Semester

Prerequisite(s): None.

This Physical Education course for the eleventh grade student consists of a variety of team and individual activities. Activities offered are as follows: Weight Training/Fitness, Volleyball, Floor Hockey, Net games, Soccer and Basketball. Daily exercise warm-up is a requirement for each class lesson. All students must be appropriately dressed and all are expected to participate unless a physician has issued an excuse to the school nurse.

HEALTH 11

Grade: 11

Graduation Requirements: This course is a graduation requirement and satisfies 2.5 credits of Health Education

2.5 Credits - Semester

Prerequisite(s): None.

This Health course for the eleventh grade student covers the importance of healthy behaviors throughout one's lifetime. The purpose of the course is to develop desirable health habits and attitudes regarding physical fitness, proper diet, good decision making skills involving lifestyle choices and behaviors, safety, first aid and CPR instruction.

PHYSICAL EDUCATION 12

Grade: 12

Graduation Requirements: This course is a graduation requirement and satisfies 2.5 credits of Physical Education

2.5 Credits - Semester

Prerequisite(s): None

This Physical Education course for the twelfth grade student consists of a variety of team and individual activities. Activities offered are as follows: Weight Training/Fitness, Volleyball, Speedball, Ultimate Frisbee, Basketball and Recreational sports. Daily exercise warm-up is a requirement for each class lesson. All students must be appropriately dressed and all are expected to participate unless a physician has issued an excuse to the school nurse.

HEALTH 12



Grade: 12

Graduation Requirements: This course is a graduation requirement and satisfies 2.5 credits of Health Education

2.5 Credits - Semester

Prerequisite(s): None

This Health course for the twelfth grade student is designed to address health concerns and issues that may arise during adulthood. The purpose of the course is to expose students to many of the healthcare issues they will face as adults as they relate to mental and emotional health, communicable diseases, and medical products and services.

PERSONAL FITNESS

Grade: 9-12

Graduation Requirements: This course satisfies 2.5 credits of Health Education

2.5 Credits - Semester

Prerequisite(s): None

This 2.5-credit elective course provides a comprehensive introduction to personal fitness and wellness principles, equipping students with the knowledge and skills to develop and maintain a healthy lifestyle. Through a blend of theoretical learning and practical application, students will explore topics such as exercise physiology, nutrition, stress management, and goal setting. Hands-on activities include personalized fitness assessments, workout planning, and mindfulness practices. Designed to promote lifelong health and fitness, this course encourages students to build sustainable habits and understand the broader impact of wellness on overall quality of life.

Fine, Visual and Performing Arts

Visual Art

DIGITAL IMAGING

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits - Full Year

Prerequisite(s): None

Digital Imaging explores the creative and conceptual aspects of designing and producing digital imagery, graphics, and photography. Students study the techniques, genres, and styles from multiple mediums and forms. Topics include aesthetic meaning, appreciation, and analysis; composing, capturing, processing, and programming of imagery and graphical information; their transmission, distribution, and marketing; and contextual, cultural, and historical aspects and considerations.



INTRODUCTION TO DRAWING

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits - Full Year

Prerequisite(s): None.

Introduction to Drawing is an integral part of the school's visual and performing arts department. Students may explore a variety of learning opportunities in two-dimensional and three-dimensional designs. Students will work with a variety of mediums including, but not limited to : Graphite, Pastel, and Charcoal. Students will learn how to think creatively through personal development of artistic expression. Students will apply what they learned in the visual arts across subject areas to develop competencies and creative skills in problem solving, communication, and management of time that contribute to lifelong learning and career skills. The work is designed to extend the student's knowledge of art history, theory, criticism and aesthetics. Students are expected to consistently use higher level thinking skills to solve problems as well as higher-level technical skills to execute the solutions. They are also expected to produce a greater quantity of work, which exhibits the use of more abstract concepts. Students will be required to keep a sketchbook and participate in a final exhibition.

ART STUDIO I

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 2.5 credits of Fine, Visual and Performing Arts

2.5 Credits - One Semester

Prerequisite(s): Introduction to Drawing

This course is designed for the accelerated art student interested in the continued development of personal style and creative skills. Each student will solve perspective, design, and composition problems by creating different types of pictures while experiencing different painting styles. Students will be required to have group and individual critiques about artwork and turn in weekly drawing assignments. This course will result in the creation and curation of a student portfolio.

ART STUDIO II

Grades: 11, 12

Graduation Requirements: This course satisfies 2.5 credits of Fine, Visual and Performing Arts

2.5 Credits - One Semester

Prerequisite(s): Introduction to Drawing I

This course is designed for the accelerated art student interested in the continued development of personal style and creative skills. Each student will solve perspective, design, and composition problems by creating different types of pictures while experiencing different painting styles. Students will be required to have group and individual critiques about artwork and turn in weekly drawing assignments. This course will result in the creation and curation of a student portfolio. This course is a continuation of Art Studio I

INTRODUCTION TO FASHION DESIGN AND TEXTILES



Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits - Full Year

Prerequisite(s): None

At the end of this hands-on course, students will form a foundation in apparel design. This course is designed for students who desire to explore the world of art and fashion .Introduction to Fashion Design provides students with the opportunity to apply innovation and creativity to achieve the desired fashion design results. Students will learn to identify target markets for designs, looking at factors such as age, gender, and socioeconomic status. Students will participate in simulations to prepare them to work with sales and management executives or with clients to discuss design ideas. The application of the elements and principles of design will be used to sketch rough and detailed drawings of apparel or accessories, and plan specifications such as color schemes, construction, material types, and accessory requirements. This course provides students with the opportunity to apply innovation and creativity to achieve the desired fashion design results. Students will draw detailed or technical illustrations using industry-standard software, collaborate to develop and refine designs, write informational material, construct samples and create patterns. Students will participate in simulations to prepare them to work with sales and management executives or with clients to discuss design ideas. The application of the elements and principles of design will be used to generate rough and detailed drawings of apparel or accessories using a computer, and plan specifications such as color schemes, construction, material types, and accessory requirements.

INTRODUCTION TO GRAPHIC DESIGN

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits - Full Year

Prerequisite(s): None

Students will begin with photo manipulation software and through a variety of exercises to learn how to develop strong visuals for design purposes. Technological skills will be emphasized during this phase and multiple effects that convey different messages will be used and discussed. Use of page/document layout software will follow this stage as students learn how to use images and typography for effective communication of ideas. As opportunities present themselves, students will engage in 'real world' projects with the goal of acquiring printed materials. Practical design opportunities, using digital imaging, Photoshop, Illustrator, and InDesign will be used to design and produce posters, advertising, logos, promotional materials and school/community based projects. Strong desktop aesthetic sensibilities regarding the principles of design are required. All projects will be saved in a digital format for presentation and portfolio uses.

INTRODUCTION TO COMMERCIAL ART AND ADVERTISING (FULL YEAR)

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts



5 Credits - Full Year

PreRequisite(s): Digital Imaging

The fundamental processes of artistic expression used in the fields of advertising and Graphic Design for the purpose of visual communication will be emphasized. This course offers practical experiences in generating advertisements, commercial art, logos, executing layouts, illustrations, displays, and lettering, and works with a variety of media, techniques, and processes. Students will prepare artwork for reproduction and presentation. This course will present a historical and contemporary view of advertising art, graphic design, and commercial art. Students learn and practice responding to their own art and that of others including professional designers through analysis, critique, and interpretation for the purpose of reflecting on and refining work.

PAINTING STUDIO

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits - Full year

Prerequisite(s): Successful completion of Drawing 1 and Drawing 2, or Introduction to Drawing, or portfolio review

This course is designed for the accelerated art student interested in the continued development of personal style and creative skills. Each student will solve perspective, design, and composition problems by drawing and painting different types of pictures while experiencing different painting styles. Students will be required to have group and individual critiques about artwork and turn in weekly drawing assignments.

SCULPTURE

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 credits of Fine, Visual and Performing Arts

2.5 Credits - One Semester

Prerequisite(s): None.

Sculpture will strengthen student awareness of contour, form, and enrichment of tactile perception. A variety of media will be explored to enhance creative thinking and self-reliance through the infusion of past and present art content and skills. The study of sculpture will strengthen the student's connection between art and science, math, and history.

INTRODUCTION TO CERAMICS

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits - Full Year

Prerequisite(s): Sculpture or Introduction to Drawing

Students are expected to demonstrate growth in problem solving, controlling the properties of clay to develop complex forms, strengthening artistic expression and critical thinking. Advanced hand-building and wheel throwing will be covered. Historical and contemporary trends in ceramics are studied

through research and in-class presentations. Students are expected to express themselves through visual, verbal and written formats.

INTERMEDIATE CERAMICS

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits - Full Year

Prerequisite(s): Successful completion of Introduction to Ceramics

This hands-on class will help students develop skills in wheel throwing and glazing. Students will gain knowledge of the entire ceramics process while exploring ceramics as a career. Students will study ceramics from various cultures and experience a variety of techniques. The importance of technical proficiency is stressed to emphasize its significance in successfully expressing an idea through a ceramic medium. By analyzing the importance of culture and history and its effect on ceramics, students will learn to express themselves through the art of ceramics.

Additional studio time outside of class may be required.

INTRODUCTION TO PHOTOGRAPHY

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits –Full Year

Prerequisite(s): None.

This course is designed for students to learn the aesthetics and practical knowledge of digital photography and photo editing. They will examine the history of photography and reveal the evolution of the camera by creating various multimedia presentations. They will learn how to create a digital workflow and file conversion through image enhancement, manipulation, and other creative techniques using updated software. Students will refine techniques including: light techniques, backdrops, and different genres of subject matter. Image enhancement, manipulation, and advanced Photoshop techniques will be explored. A digital portfolio will be required by each student when they complete this course.

ADVANCED PLACEMENT ART STUDIO

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits – Full Year

Prerequisite(s): 5 credits in Intermediate Drawing, (with a passing grade of 90% or above), or AP Teacher approval

Students will create an in-depth portfolio for scoring by The College Board. Students will be required to submit a portfolio consisting of twenty-nine original works that demonstrate a systematic investigation in the areas of quality, concentration, and breadth. The portfolio will be presented for portfolio review based on The College Board Standard Format. A supportive essay to defend the concentration is also required. Students are encouraged to be independent thinkers, inventive artists with strong techniques and talent in their area of expertise. Summer work and sketchbooks are required.





Dance

INTRODUCTION TO DANCE

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits -- Full Year

Prerequisite(s): None.

This course is for the interested dance student who may or may not have previous movement experience. The course will introduce them to the art of dance through the kinesthetic study of various movement genres. Students will develop and demonstrate principal, technical elements of dance as well as develop an understanding of the human body through anatomy study. Students will begin career opportunity development in dance, in addition to further enhancing their analytical skills through movement critique and reflection writing. The class builds to a final dance performance and explores movement history. Students will demonstrate their knowledge of movement through a final performance, class participation, weekly written reflections and unit exams.

INTERMEDIATE DANCE

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits - Full Year

Prerequisite(s): Successful completion of Introduction to Dance

This course is for the serious performer. Advanced Dance will further enhance the technical, kinesthetic mover. Students will develop and demonstrate a proficiency at an advanced level within the scope of modern, ballet and improvisation. Students will continue to develop career opportunities in dance, in addition to further enhancing their analytical skills through movement criticism and reflection writing. This course builds toward a final performance, demonstrating technical skills attained by the student. Students will be assessed through a final performance, class participation, written journal reflections and unit exams.

Music

CONCERT BAND

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 credits - Full Year

Prerequisite(s): Enrollment in Middle School Concert Band or audition.

Concert Band is a full year course where students study and perform standard, popular and contemporary concert band literature. The Concert Band plays for school functions such as assemblies, musicals, and special programs. It also appears at selected civic functions and trips to area or regional festivals. Evening concerts, before/after school rehearsals and community service performances are a mandatory part of this program. (Specific uniforms will be required for all public performances.)

CHORALE

Grade: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits – Full Year

Prerequisite(s): High interest in vocal ensemble performance

Chorale consists of students who are new to HS choir. The pedagogy in this course is tailored to meet their needs, vocally and musically, in order for them to transition smoothly and effectively into more advanced music and content. The chorale performs for school functions such as assemblies, musicals, and special programs. It also appears at selected civic functions and trips to area or regional festivals. Evening concerts, before/after school rehearsals and community service performances are a mandatory part of this program. (Specific uniforms will be required for all public performances.)

COMPUTER MUSIC AND PRODUCTION

Grades 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 credits of Fine, Visual and Performing Arts

Prerequisites: None

2.5 Credits--One Semester

Prerequisite(s): The successful completion of 5 credits of HS Music courses or an audition

This course is designed for those students who have already completed a vocal, instrumental, or other music elective. Students must have an interest in learning more about the ongoing evolution of the music industry including digital recording, editing, and mixing. The ability to read music is not required but highly recommended. Tools and topics covered will include the science of sound, microphones/cables, the DAW and MIDI, GarageBand, MixCraft, Sonar, Audacity, and Logic.

GUITAR

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits – Full year

Prerequisite(s): None.



Guitar is a performance based class designed for the beginning guitar student. Students will learn and apply music fundamentals to the guitar. Included in those fundamentals are proper technique, reading notation, fingerboard geography, rhythmic skills, style and interpretation, and performance etiquette.

CONCERT CHOIR

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits – Full Year

Prerequisite(s): Audition Required.

Concert Choir is for accomplished vocalists. The focus of this choir will be to continue musical growth through solfege literacy, sight-reading, vocal pedagogy and more challenging repertoire. The concert choir performs for school functions such as assemblies, musicals, and special programs. It also appears at selected civic functions and trips to area or regional festivals. Evening concerts, before/after school rehearsals and community service performances are a mandatory part of this program. (Specific uniforms will be required for all public performances.)



MUSIC THEORY

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 credits of Fine, Visual and Performing Arts

2.5 Credits – One Semester

Prerequisite(s): The successful completion of 2.5 credits of HS Music courses or an 80% on the placement exam

This course covers the musical basics including notation, scales, intervals, harmony and their usage in music. The class will explore various periods of musical development and their relationship to today's musical trends. Emphasis is placed on individual musical development through sight singing, ear training, and appropriate developmental exercises

PIANO I

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits – Full Year

Prerequisite(s): None

Piano I is a performance based class designed for students who have less than one year experience playing piano. Emphasis is placed on fundamental note reading, rhythm, and technique. Students will be required to perform during class.

PIANO 2

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

2.5 Credits – One Semester

Prerequisite(s): Piano 1 or audition

Piano 2 is a performance based class designed for students who have experience playing piano. Emphasis is placed on 2 hand performance, scales and theory fundamentals. Students will be required to perform in class and publicly.



ORCHESTRA

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits – Full Year

Prerequisite(s): Enrollment in Middle School Orchestra or audition.

Orchestra is a full year course where students study and perform standard, popular and contemporary orchestra literature. The orchestra plays for school functions such as assemblies, musicals, and special programs. It also appears at selected civic functions and trips to area or regional festivals. Evening concerts, before/after school rehearsals and community service performances are a mandatory part of this program. (Specific uniforms will be required for all public performances.)

PERCUSSION ENSEMBLE

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 credits of Fine, Visual and Performing Arts

2.5 Credits – One Semester

Prerequisite(s): Percussion Players Only

Percussion ensemble focuses on the wide variety of percussion repertoire and styles for the diverse family of percussion instruments. Music could include Afro-Cuban, African, contemporary classical, and experimental genres. This course will support our band and marching band program.

Theater

INTRODUCTION TO THEATER

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits -Full Year

Prerequisite(s): None.

This course is designed to give the student a broad understanding of the theater and to develop an appreciation for the role that theater has played throughout history and in contemporary society. Students will be introduced to the fundamentals of improvisation, movement, pantomime, public speaking and speech for the stage. They will practice acting, dramatic writing and criticism. They will learn about careers in the theater and understand the role of the actor, director, designer, playwright and producer. Students will write their own plays and develop skills in script analysis, character development and criticism; master stage vocabulary; understand the workings of a theater; work on a production team to design and build sets and work with lighting and sound equipment; and learn the process of casting, rehearsal and performance. Students will be required to participate on the production team for an NBHS production.

INTERMEDIATE THEATER

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 credits of Fine, Visual and Performing Arts

5 Credits - Full Year



Prerequisite(s): Successful completion of Introduction to Theater

The course is designed for students to be exposed to rigorous training in the major methods of acting. Students will apply these methods to the creation of characters for public performance. In addition, students will study famous characters and actors who made significant contributions to world theater history. They will receive practical training and preparation for a future career in acting and/or related endeavors. Students will explore various acting styles from history such as Shakespeare, acting with an accent, and play writing. Students will continue to utilize character development skills in modern monologues and scene study. Students will have an opportunity to direct scenes and participate in self-directed study. The course will culminate in a required final public performance.



21st Century Life and Careers

ACCOUNTING I *CIP Code 52.0302*

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits
5 Credits – Full Year

Prerequisite: Introduction to Finance

Accounting shall provide students with a comprehensive study of accounting principles and procedures needed to complete the basic accounting cycle. Students shall comprehend the rules of debit and credit and apply these rules to transactions involving service and merchandising businesses. Students shall create the financial statements derived from these transactions to complete the accounting cycle. Students shall also be tasked with preparing the payroll and payroll tax accounting records for a business. In addition, students shall apply accounting principles and procedures to demonstrate their understanding of accounting for a merchandising corporation and a partnership. Students shall demonstrate their understanding of accounting procedures of plant assets and depreciation, uncollectible accounts receivable, inventories, notes payable and receivable through chapter activities and case studies. Throughout the course, students shall assess their knowledge and understanding of accounting concepts through the use of accounting software. At the conclusion of this course students will be required to take the NOCTI exam. This course is part of a 3-year sequence. Students should plan to take Accounting II in the following school year.

ACCOUNTING II *CIP Code 52.0302*

Grades: 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits
5 Credits – Full Year

Prerequisite(s): Successful completion of Accounting I.

The full-year course of Accounting II shall provide students with a comprehensive study of accounting principles and procedures needed to complete the accounting cycle of publicly and privately held corporations, as well as not-for-profit organizations. The prime objective of the Accounting II course is to encourage students to make insightful decisions, be creative problem solvers, and use critical thinking skills in order to process, analyze, prepare and communicate financial information. This course shall introduce material that students will study in a beginning college accounting course. At the conclusion of this course, students will be required to take the Quickbooks exam. This course is part of a 3 year sequence. Additionally, students shall be required to complete the bulk of their classwork using computerized accounting software.

BUSINESS LAW

Grades: 10, 11, 12



Graduation Requirements: This course satisfies 2.5 21st Century credits

2.5 Credits – 1 Semester

Prerequisite(s): None.

The Business Law course is designed to provide students with a basic foundation of the law as it applies in a business setting. Specifically, this course shall focus primarily on contract law, the most fundamental topic in business law. Students shall perform a detailed analysis of the elements of a contract that are essential to its enforceability. In addition to contract law, students shall learn about the laws of agency, bailment, insurance, and employment.

COMPUTER AIDED DRAFTING (CAD)

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits

5 Credits – Full Year

Prerequisite(s): None.

This academic course will be offered to all students interested in further exploring the possibilities in Drafting, Design, Mechanical and Architectural Engineering. Students will begin with drafting, which is drawing done with instruments. Students will learn how to use drafting instruments (straight edge scales, triangles, compass, etc.), explore ways of translating ideas into working drawings and expand their technical vocabulary. Students will then apply these design concepts and skills along with using technology. It is the purpose of this course to provide students with an extended understanding of Computer Aided Drafting and utilize the AutoCAD 2006 software exclusively. This allows students to further explore the possibilities in Drafting, Design, Mechanical and Architectural Engineering.

COMPUTER AND INFORMATION TECHNOLOGY

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits

5 Credits - Full Year

Prerequisite(s): None

Computer and Information Technology is designed to provide students with career awareness in information technologies to include: database administration, information systems managers, computer and information research scientists, and operations analysts. provides students with the knowledge to operate and use computer and information technology, emphasizing their role as tools to communicate more effectively, conduct research more efficiently, and increase productivity. The course content includes the legal and ethical issues involved with computer technology and use. This course is part of a 3-year sequence. Students who enroll in this course, should plan to enroll in Business and Computer Applications during the following year. This course may require additional time outside of the classroom to participate in job shadowing experiences.

COMPUTER SCIENCE DISCOVERIES I

Grades 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 21st Century credits

2.5 credit—1 Semester



Prerequisite(s): None.

The Computer Science Discoveries Course is based upon the highly acclaimed and accepted Code.org Computer Science Discoveries program which was developed by teams of programmers and educators for international use in order to develop student interest and proficiency in computer programming. The course begins with the first two units, “Innovations and Applications” and “Web Development”, which are an introduction to the broad field of programming while learning the basics of creating web pages, one of the most versatile applications of computing skills. Throughout all units, students will engage with others as team partners, mentors, and test subjects simulating the many aspects of the computer science profession. The course emphasizes the broad range skills outlined in the New Jersey Student Learning Standards for Technology, the engineering aspects of the New Jersey Student Learning Standards for Science and the metacognitive creation of professional study habits. Through the formative aspects of the Code.org system and structured project rubrics, students will be encouraged to set and achieve personal goals.

COMPUTER SCIENCE DISCOVERIES II**Grades 9, 10, 11, 12****Graduation Requirements:** This course satisfies 2.5 21st Century credits**2.5 credit—1 Semester****Prerequisite(s): Computer Science Discoveries I**

The Computer Science Discoveries B is based upon the highly acclaimed and accepted Code.org Computer Science Discoveries program which was developed by teams of programmers and educators for international use in order to develop student interest and proficiency in computer programming. Part B course begins the third code.org unit, “Interactive games and Animations” challenges students to not only produce code, but to ensure that it functions correctly to increasingly sophisticated criteria and constraints. The fourth unit, “Creating Programs for Society” focuses on students developing the skills to manage the design, build and test of a program in their area of interest. Throughout all units, students will engage with others as team partners, mentors, and test subjects simulating the many aspects of the computer science profession. The course emphasizes the broad range skills outlined in the New Jersey Student Learning Standards for Technology, the engineering aspects of the New Jersey Student Learning Standards for Science and the metacognitive creation of professional study habits. Through the formative aspects of the Code.org system and structured project rubrics, students will be encouraged to set and achieve personal goals.

COMPUTER SCIENCE FOR ENGINEERS**Grades: 10, 11, 12****Graduation Requirements:** This course satisfied 5 21st Century Credits**5 Credits – Full Year****Prerequisite(s): Successful completion of Introduction to Engineering.**

The course will enhance the skills students will need to proceed toward careers in Mathematics, Research Sciences and Engineering. This course is recommended for students in the Math, Science and Engineering Themed Institute who have successfully completed Algebra 1 and 2 and have a strong interest in analytical science and/or computer programming. The Computer

Science for Engineers course will consist of the following units: Introduction to program design, Incorporation of common algorithms and data structures, Developing algorithms and data structures, and Individualized designs for specific needs. Throughout each unit, the social and ethical aspects of computer use shall be stressed as well as efficiency and reliability of design. Each unit will contain multi-discipline benchmark assessments that will measure student mastery of the material and skills in that unit. This course is designed to prepare students for post secondary mathematics, science and engineering courses. This course will focus on hands-on problem solving and practice while developing skills and will culminate with students independently developing solutions to individual problems.

INTRO TO CULINARY

Grades: 9

Graduation Requirements: This course satisfies 5 21st Century credits

5 Credits - Full Year

Prerequisite(s): None.

An introductory course where students learn about the fundamentals surrounding cooking. Engage in learning about the theory of cooking techniques and get a basic introduction to cooking concepts. Provides students with career exploration surrounding culinary and the different roles and preparations needed based on the different food, beverage, and restaurant industries. For 9th graders, this course can be utilized as a prerequisite for entering the career and technical education program starting with Culinary Arts I.

CULINARY ARTS I CIP Code 12.0503

Grades: 10

Graduation Requirements: This course satisfies 5 21st Century credits

5 Credits – Full Year

Prerequisite(s): Application for CTE Program

Culinary Arts 1 is designed to provide students with career awareness in culinary careers. By the end of this course, students will be able to articulate the ethical and legal responsibilities related to careers in the restaurant, food and beverage industry. Students will be required to demonstrate safety and sanitation in the industry as well as identify kitchen tools, herbs, spices, fruits and vegetables. This course includes instruction on nutritional care and education, the planning and provision of food services, the development of consumable food products, life-span nutrition and wellness, the principles of nutritional assessment, and food safety and food composition. This course is part of a 3 year sequence. Students should plan to enroll in Culinary Arts II the following year. (Specific uniforms will be required for all lab-based instruction.)

CULINARY ARTS II CIP Code 12.0503

Grades: 11

Graduation Requirements: This course satisfies 5 21st Century credits

5 Credits – Full Year

Prerequisite(s): Successful completion of Culinary Arts 1.

Culinary Arts II is designed to provide students with career exploration in culinary careers. This course is laboratory-based and students will be required



to build upon their knowledge of safety and sanitation, tools and ingredients as well as achieve a proficient understanding of common cooking terminology, convert recipes and establish mise en place (identify ingredients, assembling food). This course is part of a 3 year sequence. Students should plan to enroll in Culinary Arts III the following year. (Specific uniforms will be required for all lab-based instruction.)

CULINARY ARTS III CIP Code 12.0503

Grades: 12

Graduation Requirements: This course satisfies 5 21st Century credits
5 Credits – Full Year

Prerequisite(s): Successful completion of Culinary Arts 2.

Culinary Arts III is designed to provide students with career experience in culinary careers. By the end of this course, students will be prepared for entry level positions in the restaurant, food and beverage industry. This course is laboratory-based and students will be required to build upon their knowledge of safety and sanitation, tools and ingredients as well as achieve an advanced understanding of common cooking terminology, convert recipes and establish mise en place (identify ingredients, assembling food). Students enrolled in this course will have the opportunity to earn Serve Safe certification in Culinary Arts. (Specific uniforms will be required for all lab-based instruction.)



Culinary Arts Display for Parent Engagement Night

DENTAL ASSISTING I CIP Code 51.0601

Grade: 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits
5 Credits – Full Year

Prerequisite(s): Successful completion of Dynamics of Dental Health in Society. This program prepares the student with the essential workplace readiness skills to work in a dental office. These skills are related to knowledge of the dental profession, infection control procedures, intra and extra oral examinations including taking vital signs, basic chairside assisting procedures, dental anatomy, dental instruments/materials and laboratory procedures

DYNAMICS of DENTAL HEALTH in SOCIETY CIP Code 51.0601

Grade: 10, 11

Graduation Requirements: This course satisfies 5 21st Century credits
5.0 – Full Year

Prerequisite(s): Successful completion of Introduction to and Related Health

Careers.

This course provides an orientation and clinical exposure to health care services and their delivery. It presents an interdisciplinary perspective, focusing on process skills such as critical thinking, ethical reasoning, effective communication and ways to continue independent learning throughout life. The professional competencies stressed apply to general issues and topics common to all health care providers. Emphasis is placed on the role of the health care practitioner as both provider and consumer of health care services. This course is part of a 3 year sequence. Students should plan to take Dental Assisting I in the following year..

EARLY CHILDHOOD EDUCATION I

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits

5 Credits – Full Year

Prerequisite(s): None.

This course prepares students for child-related careers and/or more extensive parenting skills through personal interactions with children. Students develop employment skills required to work with children by planning and implementing developmentally appropriate curriculum. On-site lab experiences will be a major component of this course.

EARLY CHILDHOOD EDUCATION II

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits

5 Credits – Full Year

Prerequisite(s): Successful completion of Early Childhood Education I.

This course is a continuation of the first course in Early Childhood and builds upon the student understandings and learning that they gained in Early Childhood Education I. Instruction is also given in positive behavior supports, child care policies, and health and safety. On-site lab experiences will be a major component of this course.

ECONOMICS

Grades: 11, 12

Graduation Requirements: This course satisfies 2.5 21st Century credits or satisfies the graduation requirement for Financial, Economic Business, and Entrepreneurial Business Literacy

2.5 Credits – One Semester

Prerequisite(s): Introduction to Business or Introduction to Finance

The Economics course shall provide students a unique opportunity to combine knowledge of the theoretical with practical, real-life decisions about employment options, consumer choices, and personal finance. Students shall gain an understanding of basic economic concepts such as supply and demand, opportunity costs, recession, the business cycle, resources, scarcity, and economic growth, enabling students to analyze local, state, national, and international economic questions and issues. An understanding of basic economic concepts and principles will help students to become better informed and more active citizens.

ELECTRONICS (Analog & Digital Electronics)

Grades 11, 12



Graduation Requirements: This course satisfies 5 21st Century credits
5 credit—Full Year

Prerequisite(s): Physics, CAD, Introduction to Engineering

This first part of this course focuses on analog electronics. This course covers the fundamental concepts of AC and DC, electricity, and electronics. Students will learn sources of electricity, wiring of basic circuits, and components; as well as their application to practical, everyday devices. Since, most of the fundamental electronic components – resistors, capacitors, inductors, diodes, transistors, and operational amplifiers – are all inherently analog, Electronics also includes principles required for understanding electrical machines, magnetism and generator theory, and application to motors and transformers. The major focus of the second half of the course is on Digital Electronics. The goal is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Students will analyze, design and build digital electronic circuits with an emphasis on understanding of the modern electronic devices that are part of the students' lives. In addition, since digital electronics is the foundation of all modern electronic devices such as cellular phones, digital cameras, high definition televisions, laptop computers, students will integrate digital electronics with applied computer science by programming a low-cost, high-performance computer. Students will learn a general-purpose computer language, Python through computer programming, to solve electronic problems and have fun. Students learn the fundamental concepts of programming - concepts that can be applied in the study of any programming language

INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY

Grades 10, 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits

5 Credits - Full Year

Prerequisite: Computer and Information Technology, or Business and Computer Applications

This course is designed to provide career experience in Information technology to include: Information Technology in a Global Society is an advanced course designed to help students develop a systematic, problem solving approach to processing and analyzing information using a range of information tools. Students will discuss and evaluate how modern information technology affects individuals, relationships among people, and institutions and societies. This course will culminate with a semester-long Capstone project that requires action research. This course is part of a 3-year sequence. Additional time outside of the classroom may be required to participate in mentoring and internship experiences.

INTRODUCTION TO BUSINESS

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 21st Century credits

2.5 Credits – 1 Semester

Prerequisite(s): None.

This course is designed to provide the student with a basic understanding of



how a modified free enterprise system functions. Topics explored will include the American economic system, the role of government in regulating the system, and how it compares to other global economic systems. Business structures, Financing, Banking Services, and Technology applications will also be examined. Business math applications will be stressed throughout the course. Career information relative to business occupations will be presented to assist in career decision-making.

INTRODUCTION TO HOSPITALITY AND CULINARY CAREERS

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 21st Century credits
2.5 Credits – Semester

Prerequisite(s): None.

This course is designed to provide students career awareness in the hospitality and culinary industry. By the end of this course, students will be able to articulate the ethical and legal responsibilities related to careers in the hospitality and culinary industry. Students will be required to demonstrate safety and sanitation in the industry as well as identify kitchen tools, herbs, spices, fruits and vegetables. This course includes instruction on nutritional care and education, the planning and provision of food services, the development of consumable food products, life-span nutrition and wellness, the principles of nutritional assessment, and food safety and food composition. For 9th graders, this course can be utilized as a prerequisite for entering the career and technical education program starting with Culinary Arts I.

INTRODUCTION TO CYBERSECURITY

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 21st Century credits
2.5 Credits - Half Year

Prerequisite(s): None

This course is designed for students who are interested in exploring careers in Cybersecurity. The focus of instruction will include the implementation and monitoring of security on network and computer systems. Students will investigate strategies to identify and protect against security threats such as hackers, eavesdropping and network attacks. The basics of cryptography and logic reasoning will be explored. Hands-on labs provide practice in the configuration and mitigation of system vulnerabilities. Each unit will begin with a focus on related cyber ethics and law. *Ethics agreement must be signed by all students and parents during the first 2 weeks of class.

INTRODUCTION to DENTAL ASSISTING AND HEALTH CAREERS

CIP Code 51.0601

Grade: 9, 10

Graduation Requirements: This course satisfies 5 21st Century credits
5.0 – Full Year

Prerequisite(s): Application for CTE Program

This course will expose students to the variety of career opportunities available in the important field of healthcare. Through research, guest speakers and field trips to health care facilities, students will explore possible career paths in areas ranging from emergency medical services to dentistry. Students will study the responsibilities, duties and educational and training



requirements of particular healthcare jobs, as well as the choices available within the various fields. They will also investigate the 21st century employment outlook and job trends. As a result, students will be able to make more informed decisions as they consider a possible career in healthcare. This course is part of a 3 year sequence. Students should plan to take Dynamics of Dental Health in Society in the following year.

INTRODUCTION TO ENGINEERING

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits

5 Credits – Full Year

Prerequisite(s): Successful Completion of Physics

Students will investigate engineering in this project-based course. Students will engage in hands-on STEM activities in relevant fields such as mechanical systems, electrical systems, computer science and communications, and civil engineering. Learning will also integrate sciences such as environmental, chemical, biological, and materials science. This course is designed to prepare students for post secondary mathematics, science and engineering courses. Hands-on team-centered inquiry and design activities, independent research and critical evaluation are integral parts of this course.

INTRODUCTION TO FINANCE *CIP Code 52.0302*

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits

5 Credits – Full Year

Prerequisite(s): Application for CTE Program

This Career and Technical Education course will introduce students to various careers in Finance and the required skills in the profession through job-shadowing and project-based assignments. Students will utilize mathematical concepts, skills, and problem solving to obtain the necessary information for decision making in the Finance industry. Laws, regulations and ethical standards that affect finance operations and transactions will be investigated. Additionally, students will gain a fundamental understanding of the required accounting technology and financial products to respond to market opportunities and minimize business loss. This course is part of a 3-year sequence. Students should plan to take Accounting I in the following year. This course may require additional time outside of the classroom to participate in job shadowing experiences.

INTRODUCTION TO INTERACTIVE GAME DESIGN

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits

2.5 Credits - One Semester

Prerequisite(s): None

Introduction to Interactive Game Design explores the creative, technical, and conceptual aspects of designing and producing interactive game experiences and products, including reactive (sensory-based devices) and interactive technologies, 3D game mechanics, interface design, games for mobile device applications, social media and web multimedia.. Topics may include aesthetic meaning; artistic, design and technical methods and practices; game

construction and development, game theory and dynamics; analysis and media literacy; construction, development, processing, modeling, and programming of game-based experiences; their transmission, distribution, placement and marketing; and contextual, cultural and historical aspects and considerations. This course combines analog and digital game creation.

INTRODUCTION TO INTERACTIVE MEDIA IN GAMING AND ESPORTS

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits

5 Credits - Full Year

Prerequisite(s): None

The goal of this course is to lay the foundation of gaming by offering a broad perspective on the principles of game design and interactive media. Students explore the history, theory, and application of game mechanics, storytelling, and visual design, gaining insight into various career opportunities within the field of Esports.

INTRODUCTION TO LAW

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits

5 Credits – Full Year

Prerequisite(s): None.

This course is designed for students who are interested in exploring careers in law. Throughout this course, students will gain an understanding of the intricacies of the legal system. The course will expose them to the fundamental values and principles of American democracy as expressed in the U.S. Constitution and Bill of Rights. Furthermore, this course will provide students with a deeper understanding of constitutional rights, court systems, criminal law, civil law & life, politics & government. Students will be required to conduct legal research & provide written documentation & analysis of specific cases.

INTRODUCTION TO MARKETING AND MANAGEMENT

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 21st Century credits

2.5 Credits – One Semester

Prerequisite(s): None.

The goals of this course are to provide a basic understanding of the expansive field marketing and management. The students will learn the principles and basic concepts of marketing and will develop an understanding of how market research is conducted and how marketing plans are created. Students shall explore management structures and be introduced to basic management functions and effective management techniques. As students progress through the course, they will learn about potential careers in marketing and management.

INTRODUCTION TO SECURITY AND LOSS PREVENTION

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 21st Century credits

2.5 Credits – One Semester



Prerequisite(s): None.

This course is designed for students who are interested in exploring careers in security and loss prevention. The tremendous growth of the security and loss prevention profession provides fertile ground to advance in a rewarding career. In such a competitive world, the survival and protection of businesses, institutions, technological innovations, and the national interest depend greatly on security and loss prevention programs. This curriculum which defines the differences between private and public security, also emphasizes the rule of law and its constitutional connections that ensure those who participate in the private security field become well suited for developing the necessary knowledge, skills, and attitudes needed for effective participation within this challenging profession. During this course, students will engage in real-world scenarios in the field of homeland security, criminal justice, and law.

JUNIOR ROTC LEADERSHIP, EDUCATION AND TRAINING (LET 1)

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits
5 Credits – Full Year

Prerequisite(s): Must meet Cadet Command criteria for enrollment, as outlined in Army Regulation 145-2.

The Junior Reserve Officers' Training Corps (JROTC) offers students a unique opportunity for personal growth and development. In addition to learning about citizenship, students learn to think on their feet, to motivate themselves and others, to make decisions, to work as team members and to lead. The objective of the program is to develop good citizenship, self-discipline, leadership, self-reliance, responsiveness to constituted authority, an ability to communicate effectively both orally and in writing, and a sense of pride and self-accomplishment in each student.

JUNIOR ROTC LEADERSHIP, EDUCATION AND TRAINING (LET 2)

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits
5 Credits – Full Year

Prerequisite(s): Must meet Cadet Command criteria for enrollment, as outlined in Army Regulation 145-2 and have successfully completed LET 1

The Junior Reserve Officers' Training Corps (JROTC) offers students a unique opportunity for personal growth and development. LET 2 is an expansion on the FUNDAMENTALS taught students in LET 1 about citizenship, American military history, and techniques of communication, leadership and basic life skills. Students must learn to think on their feet, to motivate themselves and others, to make decisions, to work as team members and to lead. The overall objective of the program is to develop good citizenship, self-discipline, leadership, self-reliance, responsiveness to constituted authority, an ability to communicate effectively both orally and in writing, and a sense of pride and self-accomplishment in each student. Expanded leadership roles and opportunities are presented.

JUNIOR ROTC LEADERSHIP, EDUCATION AND TRAINING (LET 3)

Grades: 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits
5 Credits – Full Year



Prerequisite(s): Must meet Cadet Command criteria for enrollment, as outlined in Army Regulation 145-2 and have successfully completed 2 The Junior Reserve Officers' Training Corps (JROTC) offers students a unique opportunity for personal growth and development. LET 3 is a further expansion of the FUNDAMENTALS taught students in LET 1 and 2 about citizenship, American military history, and techniques of communication, leadership and basic life skills. Students must learn to think on their feet, to act as role models and leaders, to motivate themselves and others, to make decisions and accept the responsibility for these decisions, to work with others as team members and to lead. The overall objective of the program remains the same, that is, to develop good citizenship, self-discipline, leadership, self-reliance, responsiveness to constituted authority, an ability to communicate effectively both orally and in writing, and a sense of pride and self-accomplishment in each student. Greater student participation in school, as well as community activities, is expected.

JUNIOR ROTC LEADERSHIP, EDUCATION AND TRAINING (LET 4)

Grades: 12

Graduation Requirements: This course satisfies 5 21st Century credits

5 Credits – Full Year

Prerequisite(s): Must meet Cadet Command criteria for enrollment, as outlined in Army Regulation 145-2 and have successfully completed LET 3 The Junior Reserve Officers' Training Corps (JROTC) offers students a unique opportunity for personal growth and development. LET 4 is the culmination of that training and will stress the practical application of the student's leadership duties and responsibilities within the JROTC cadet organization. The student will be expected to perform independent study and research, present oral and written presentations and complete special assignments on topics such as citizenship, American military history, leadership and basic life skills. Student participation in school, as well as community activities, is required.

ROBOTICS

Grades 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits

5 credit Full Year

Prerequisite(s): CAD, Introduction to Engineering

This course is an introduction to the most basic safety, mechanical and programming aspects of robotic systems. The first unit, "Basic Robotic Programming - Using Blocks" introduces students to safe practices in both the mechanical and programming aspects of robots. The second unit, "Robot Mechanics - Mechanical Adaptations" extends their understanding from basic assembly and modify to designing and creating robots for specific challenges. The course is a hands-on course requiring students to interact safely and collaboratively in small teams. As students work through the course, they will be challenged to apply their knowledge of engineering, physics and mathematics while developing new problem solving strategies and skills.

This course is an opportunity for students to extend their understanding of robots to either develop new mechanical and program designs or follow a documented process to assemble and troubleshoot a model manufacturing system. Units one and two guide students to develop mechanical and programming solutions to meet criteria and constraints. Units three and four



are options for students to learn, through more direct instruction, various manufacturing methods, associated programming and common troubleshooting flows. The course is a hands-on course requiring students to interact safely and collaboratively in small teams. As students work through the course, they will be challenged to practice technical reading and writing skills, apply their knowledge of engineering, physics and mathematics while developing new problem solving strategies and skills.

SPORTS MARKETING

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 21st Century credits

2.5 Credits – 1 Semester

Prerequisite(s): None.

This course design is for students interested in learning about selling skills and the marketing principles that drive our economic system. Students will be introduced to concepts, analyses, and activities that comprise marketing management through the practice of assessing and solving marketing problems. The curriculum is delivered through the framework of Sports. Teamwork and communication are an integral part of the class. The course prepares students to work and live in a global economy.

TELEVISION PRODUCTION I

Grades: 9, 10, 11, 12

Graduation Requirements: This course satisfies 2.5 21st Century credits

2.5 Credits – One Semester

Prerequisite(s): None.

Television Production is a course that allows students to experience various aspects of TV Production and Broadcasting including the actual operation and use of the video equipment. Students will work in production teams experiencing pre-production, actual production and post-production activities. Students will also have opportunities to develop ideas for broadcasting and scripting, storyboarding, use of appropriate dialog, sound effects, music, directing and editing. Students will also learn interviewing techniques and will prepare news cast and other informational videos. This course will provide excellent background and preparation for advanced education.

TELEVISION PRODUCTION II

Grades: 10, 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits

5 Credits – Full Year

Prerequisite(s): Successful completion of Television Production I.

This exciting course will take the fundamentals learned in TV Production I and use them in our TV station to produce and air programs throughout the school. Students will experience the many facets of preparing, producing and broadcasting programs both in the production booth and the studio. All the news, events and activities of NBHS will be aired. Come Join the ZEBRA Broadcasting Network (ZBN) by enrolling in this course.

TELEVISION PRODUCTION III/IV (HONORS)

Grades: 11, 12

Graduation Requirements: This course satisfies 5 21st Century credits

5 Credits - Full Year

Prerequisite(s): Successful completion of Television Production II/III.

This course will take the skills developed in Television II/III and apply them to independent student projects. Students will experience the many facets of preparing, producing and editing. Students in this course will be responsible for producing videos for various groups throughout the district.

Financial, Economic, Business, and Entrepreneurial Literacy

FINANCIAL LITERACY

Grades: 10, 11, 12

2.5 Credits - One Semester — Required for Graduation

Prerequisites: None.

Financial Literacy is a required elective for all students. This course will focus on the student's role as a consumer and participant in the business world. The course will explore new ways to maximize earning potential, develop strategies for managing resources, explore skills for the prudent use of credit and gain insight into different ways of investing money.

This course does not meet the 5 credits of 21st Century Life and Career Skills requirement.

Electives

AVID 9

Grade: 9

Graduation Requirements:

5 Credits – Full Year (Everyday)

Prerequisite(s): Students are selected for the programs based on formal application and interview.

AVID 9 is a research-based program that prepares students in grade 9 to enter and succeed in college. Through a rigorous set of methodologies stressing intensive writing, higher-order inquiry and collaborative learning, AVID provides academic and personal support that enables students to reach their academic potential in grade 9.

AVID 10

Grade: 10

Graduation Requirements:

5 Credits – Full Year

Prerequisite(s): Students are selected for the programs based on formal application and interview.

AVID 10 is a research-based program that prepares students in grade 10 to enter and succeed in college. Through a rigorous set of methodologies



stressing intensive writing, higher-order inquiry and collaborative learning, AVID provides academic and personal support that enables students to reach their academic potential in grade 10.

AVID 11

Grade: 11

Graduation Requirements:

5 Credits – Full Year

Prerequisite(s): Students are selected for the programs based on formal application and interview.

AVID 11 is a research-based program that prepares students in grade 11 to enter and succeed in college. Through a rigorous set of methodologies stressing intensive writing, higher-order inquiry and collaborative learning, AVID provides academic and personal support that enables students to reach their academic potential in grade 11. AVID 11 also focuses on preparing for the college application and financial aid process.

AVID 12

Grade: 12

Graduation Requirements:

5 Credits – Full Year

Prerequisite(s): Complete AVID 11 program requirements.

AVID 12 is a research-based program that prepares students in grade 12 to enter and succeed in four-year colleges. Through a rigorous set of methodologies stressing intensive writing, higher-order inquiry and collaborative learning, AVID provides academic and personal support that enables students to reach their academic potential 12. AVID 12 also focuses on completing the college application and financial aid process and preparation for the college experience.

PEER LEADERSHIP

Grade: 12

Graduation Requirements:

5 Credits — Full Year

Prerequisite(s): Junior in good standing, formal application, and interview.

Peer Leadership is an elective course which will help the student understand the variety of roles and responsibilities encountered in life. The student will come to understand his/her own values and how these values affect relations with other people. The student will also learn to think through problems and explore alternatives, thus improving problem-solving skills. Formal application and interview will be necessary to secure a peer leadership position.



MEDIA LITERACY

Grade: 9, 10, 11, 12

Graduation Requirements:

2.5 Credits - One Semester

Prerequisite(s): None

Media Literacy teaches students how to build the critical thinking, writing, and reading skills required in a media-rich and increasingly techno-centric world. In a world saturated with media messages, digital environments, and social networking, concepts of literacy must expand to include all forms of media. Today's students need to be able to read, comprehend, analyze, and respond to non-traditional media with the same skill level they engage with traditional print sources. A major topic in Media Literacy is non-traditional media reading skills, including how to approach, analyze, and respond to advertisements, blogs, websites, social media, news media, and wikis. Students will explore these concepts and engage in a variety of activities to help support the new technological age.

Student Support Services

SKILLS FOR SUCCESS

Grades: 9, 10

Graduation Requirements: Determined by the IEP or 2.5 Elective Credits

2.5 Credits – 1 Semester

Prerequisite(s): IEP determined.

This course will develop students' proficiency in organization skills, study skills, decision-making and conflict resolution strategies. Students will engage in topics and issues that are relevant and have an impact on their lives. Successful completion of this course will equip students with the skills needed to be successful in high school and throughout life.

CAREER DEVELOPMENT I

Grades: 9, 10, 11, 12

Graduation Requirements: Determined by the IEP or 2.5 Elective Credits

2.5 Credits - 1 Semester

Prerequisite(s): IEP determined.

Career Development I is a progression of instruction and learning that helps students take advantage of the changing academic and skill requirements of the emerging workplace, make sound decisions about the career development process, and become lifelong learners who seek and use information. It prepares students to make informed career decisions through awareness and understanding of individual qualities that contribute to success on the job, the ability to use employment data and other resources to support decision making, and an awareness of the training and post-secondary options available for success.

CAREER DEVELOPMENT II

Grades: 9, 10, 11, 12

Graduation Requirements: Determined by the IEP or 2.5 Elective Credits

2.5 Credits - 1 Semester

Prerequisite(s): IEP determined.

Career Development II builds upon the knowledge and skills learned in Career Development I. Students will further develop setting realistic post-secondary goals, career research, job search, self-advocacy, interview skills, and successful work-place strategies. Successful completion of this course will advance students' plans for post-secondary education leading to not only a career path in a field of choice, but a repertoire of related skills to use for life.

TRANSITION SKILLS I

Grades: 11, 12

Graduation Requirements: Determined by the IEP or 2.5 Elective Credits

2.5 Credits - 1 Semester

Prerequisite(s): IEP determined.

This course will provide the student with the skills and knowledge to ensure a smooth transition through school and on through their post secondary school years. The student will study the nature of a disability and ways of accommodation. They will also become familiar with their rights as defined by federal and state statutes. A review of the Individualized Education Plan (IEP) and the role of the Child Study Team (CST) will be addressed. Students will become knowledgeable of the service agencies that are available to them. Self-determination skills will be developed through practical applications by addressing the individual needs of the student in areas such as education, careers, life skills, independent living, recreation and provider services as needed. Each student will develop a transition plan as a final project.

TRANSITION SKILLS II

Grades: 11, 12

Graduation Requirements: Determined by the IEP or 2.5 Elective Credits

2.5 Credits - 1 Semester

Prerequisite(s): IEP determined.



This course builds upon the skills and knowledge learned in Transition Skills I. Through individualized, project based, coordinated activities, students will further develop critical thinking skills, self-advocacy skills, and explore community agencies that support students' transition from school to post school activities and independent life.

LIFE SKILLS I (ENGLISH, MATH, SCIENCE, SOCIAL STUDIES, AND LIFE SKILL)

Grade: 9, 10

Graduation Requirements: Determined by the IEP

5 Credits - 1 Semester

Prerequisite(s): IEP determined

The Life Skills program is designed to support students with disabilities with academics and independence skills required for post-secondary experiences. The Life Skills program utilizes an integrated curriculum. Students receive instruction in English, Math, Science, Social Studies, and Life Skills. The emphasis is placed on the development of functional skills through school-based learning as well as community-based instruction. The courses address the needs of students between the ages of 15-21 who experience significant problems in the quality and rate of learning, adaptive functioning, communication skills, and using symbols for the interpretation of information and solution of problems. Students will have access to the General Education Curriculum however content may be modified to address specific student needs as prescribed in the Individual Educational Plan.

LIFE SKILLS II (ENGLISH, MATH, SCIENCE, SOCIAL STUDIES, AND LIFE SKILL)

Grades: 11, 12+

Graduation Requirements: Determined by the IEP

5 Credits - 1 Semester

Prerequisite(s): IEP determined

Built upon Life Skills I, the Life Skills II courses are designed to support students with disabilities to further develop workplace readiness and independent living skills. Students will utilize a thematically based integrated curriculum for English, Math, Science, Social Studies, and Life Skills that encompasses both school-based classroom instruction and community-based learning experiences. The goal of the program is to provide instructional opportunities and authentic experiences that prepare students for the transition from High School to adult life. Curriculum content may be modified to address specific student needs as prescribed in the Individual Educational Plan.



2022 Peer Leadership Retreat - Princeton Blirstown Center

SUPERMARKET CAREERS I

Grade: 9, 10, 11, 12

Graduation Requirements: This course satisfied (5) 21st Century Requirements
5.0 Credits

Supermarket Careers is a program for students who want to explore and prepare for the various jobs being performed every day in the operation of a food store. Students will learn skills in Safety, Sanitation, Security, Customer Service, and Operation of a cash register/scanner. Students will also learn about health and nutrition, packaged products, fresh vegetables, meats, poultry and fish as well as canned products. Students will be able to apply these learned skills in the school's Mini-Supermarket. In addition, students will be taught how to complete a job application, prepare for and participate in an interview.

SUPERMARKET CAREERS II

Grades: 10, 11, 12

Graduation Requirements: This course satisfied (5) 21st Century Requirements
5.0 Credits—Full Year Every day

Prerequisite(s): Supermarket Careers I

Builds upon Supermarket Careers I, Supermarket Careers II provides more in depth instruction on retail operations including customer service, merchandising, food safety, cashiering, sanitation, and security. Upon completion, students may be placed in an actual Supermarket for Job Training and employment.

Middlesex College Courses

PSY 123 - INTRODUCTION TO PSYCHOLOGY



Grades: 10, 11

2.5 Credits – One Semester

Prerequisite(s): Education Pathway Application

Psychology creates an environment for students to explore the science of behavior. Students delve into the workings of the human brain as well as examine the effects that living in a society has on the development of an individual. Students are challenged to internalize the tenets of this social science and apply their new knowledge of accepted thought and process in continual self-examination. Students are given the opportunity to practice techniques that can improve their dealings with stress, as well as their ability to learn, to memorize, and to handle situations successfully. As an elective in the social sciences, Psychology takes students through five units in order to effectively master the foundations of the field. The units are: The Methods of Madness; The Biopsychological Domain, The Developmental Domain; The Cognitive Domain; and Variations in Behavior.

PSY 223 - CHILD PSYCHOLOGY

Grades: 10, 11

2.5 Credits – One Semester (Limited Space Available)

Prerequisite(s): Introduction to Psychology

This course provides an overview of significant issues of development from the prenatal period to early adolescence. Key topics, including developmentally appropriate expectations, brain development, cultural influences and the historical context of child psychology, will be explored. Through this course, students will broaden their understanding of the complexities of childhood. This course supports student development of Critical Thinking, Multicultural and Global Perspectives, and Social Responsibility.

EDU 121 - INTRODUCTION TO EDUCATION

Grades: 12

2.5 Credits – One Semester (Limited Space Available)

Prerequisite(s): Child Psychology

This course provides an introduction to the field of education (K-12) with a focus on elementary education. It includes a review of historical, cultural, and societal influences on education as well as current trends in the field. It also explores the role of the educator, the educational setting, and addresses general teaching approaches, educational theory, and classroom management issues. Students will be required to complete 25 observation hours in an elementary school setting.

**THE
NEW BRUNSWICK
PUBLIC SCHOOL DISTRICT
RESERVES THE RIGHT TO
ADJUST OR CANCEL
CLASSES DUE TO
ENROLLMENT, STAFFING
AND ROOM UTILIZATION.**