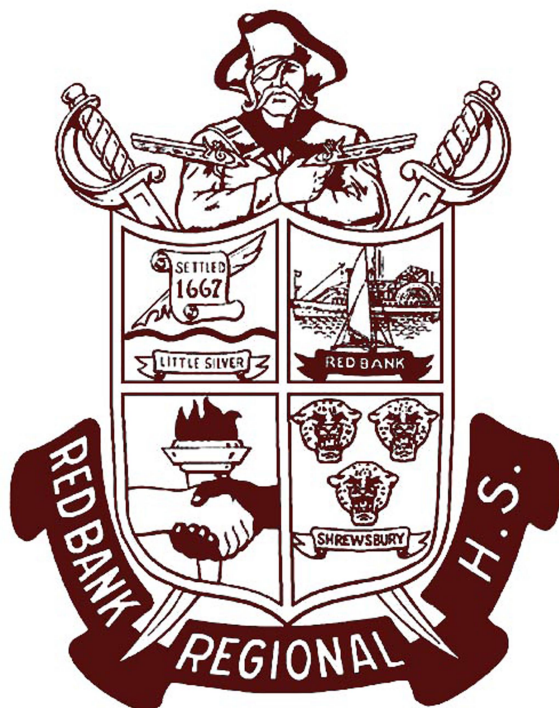


RED BANK REGIONAL HIGH SCHOOL



Curriculum Guide 2011-2012

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1 AN INTRODUCTION TO THE SCHOOL

1.1 RED BANK REGIONAL HIGH SCHOOL BOARD OF EDUCATION

JOHN GAROFALO, **President**

EMILY A. DOHERTY, **Vice President**

ANN CIABATTONI
RONALD S. HORTON
MICHAEL N. MEGILL
RANDY MENDELSON
FRANK A. NEARY, JR.
SETH ROSEN
NILSA SAMOL

JAMES STEFANKIEWICZ, **Superintendent of Schools**

MS. CHRISTINA GALVAO, **Secretary & Business Administrator**

MS. RISA CLAY, **Principal, ELL/Bilingual Education**

MR. WILLIAM T. SMITH, **Assistant Principal**

SUPERVISORS

MR. ALAN CHOBACK, Dean of Students/Academy of Sports Medicine and Management
MR. LOUIS DALPRA, Athletic Director/Student Activities
MR. ROBERT DONOHOE, AVID/Freshman Academy/Academy of Cultural and International Studies
MR. PETER GRANDINETTI, Academies of Finance, Information Technology, Pre-Engineering, Visual and Performing Arts, Graphics
MRS. DAWN C. KASZUBA, Student Personnel Services/SOURCE
MRS. SONA POLKOWSKI, Special Services/Child Study Team
MR. WILLIAM T. SMITH, Academy of Humanities and Social Sciences
MS. SUSAN ZIELINSKI, Academy of Math and Science

COUNSELORS

MR. MICHAEL DECOTIS
MR. CHRISTOPHER DESIERE
MRS. LINDA KORNEGAY
MS. JILL MALINE
MRS. MARITZA RODRIGUEZ
MRS. LORI TODD, Student Assistance Counselor

CHILD STUDY TEAM

MR. JOHN AVELLA, Psychologist
MRS. PATRICIA JOINER, School Social Worker
MRS. BRIGID LAUDERMILCH, School Social Worker
MS. AUDREY MCGARRY, Learning Consultant
MRS. ERIKA PICCA, Psychologist
MRS. TERESA SHULMAN, Learning Consultant

SCHOOL BASED YOUTH SERVICES PROGRAM

MS. SUZANNE KELLER, SOURCE Program Coordinator
MS. STACY LISS, Clinical Supervisor
MR. SEAN MACON, Community Outreach Worker
MS. MARISOL MONDACA, Clinician
MS. BECKY STEVENSON, Clinician

1.2 HISTORY OF RED BANK REGIONAL HIGH SCHOOL

The Red Bank Regional High School District was formed on November 25, 1969, by the voters in Little Silver, Red Bank, and Shrewsbury. They also approved the purchase of 53.4 acres of land in Little Silver on which to build the new high school. On December 16, 1971, voters of the district approved the plans for a new high school to be built at a cost of \$9,478,000. Groundbreaking was during the fall of 1972. The first students attended the new facilities during the 1975-76 school year.

From November 25, 1969, to occupancy of the new high school, the Red Bank Regional School District paid rent to the Red Bank Public Schools District for students from Little Silver, Red Bank, and Shrewsbury to go to high school in buildings owned by the local Red Bank school district. Prior to November 25, 1969, high school students from Little Silver, Shrewsbury and Holmdel attended Red Bank High School, along with Red Bank students, in a special arrangement with the Red Bank Board of Education known as a 'sending-receiving district' agreement. The arrangement was discontinued with the formation of the Red Bank Regional High School District in 1969.

On February 27, 1984, the New Jersey General Assembly recognized the school as one of the seven across the state commended for their solid academic curricula and applauded the ingenuity of the staff to make the pursuit of excellence a reality for their students. On June 27, 1994, The New Jersey Commissioner of Education congratulated the school for being recognized in the School Match "What Parents Want" program which ranked the district in the top 9 percent of the nation's 15,625 public school districts.

In 2000-2001, the Academies of Information Technology and Finance were created and were quickly established as premier specialized programs alongside the highly lauded Academy of Visual and Performing Arts.

In 2007, the Freshman Academy was developed, adding an organized 9th grade transition program. In 2009, three-year academies in Humanities, Math and Science, International and Cultural Studies, and Sports Medicine and Management were added, providing all students with a purposeful, personalized learning environment.

Since 2008, Red Bank Regional has twice been named as one of Newsweek Magazine's "America's Top High Schools" and twice been ranked in the top 75 of New Jersey high schools by New Jersey Monthly Magazine. In 2011, RBR was named a High Performing District by the New Jersey Department of Education.

Red Bank Regional High School is accredited by the New Jersey Department of Education and the Middle States Association of Colleges and Schools, a member of the National Consortium of Specialized Secondary Schools of Math, Science and Technology and the National Academy Foundation. In spring 2009 RBRHS was approved by the International Baccalaureate North American Division as an IB school and offers the prestigious IB diploma.

1.3 OUR MISSION STATEMENT

The Mission of Red Bank Regional High School is to ensure the academic success and personal growth of all students while developing a passion for learning.

1.4 OUR BELIEFS

We believe the educational process succeeds when parents, staff, students and the surrounding communities are active in their support for academic success.

We believe children learn best in a safe environment which embraces diversity, values creativity, and challenges all students to reach their full potential.

We believe an effective education prepares each and every student to master the curriculum and to achieve future aspirations while aspiring continual learning, critical thinking, and a positive social environment.

1.5 AFFIRMATIVE ACTION

It is the policy of the Red Bank Regional High School District not to discriminate on the basis of race, color, creed, religion, sex, handicap, ancestry, age, national origin, or social or economic status in its educational programs or activities and employment policies as required by Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, N.J.A.C. 6:1.1 et. seq., Public Law 101-336, The Americans With Disabilities Act of 1990. Inquiries regarding

compliance may be directed to Mrs. Cheryl Washington, Affirmative Action Officer, Red Bank Regional High School, 101 Ridge Road, Little Silver, NJ 07739, (732) 842-8000

1.6 HARASSMENT, INTIMIDATION AND BULLYING

Red Bank Regional has a comprehensive program to address harassment, intimidation and bullying including but not limited to involvement of the Administrative team and Ms. Cheryl Washington, the Anti-Bullying Specialist. In addition, there is regular follow-up with multiple educational resources such as conflict resolution, B.U.C. Team peer mediation and counselors in Guidance and the SOURCE.

1.7 WELCOME

Dear Students:

The Red Bank Regional High School Course of Study Guide has been prepared to assist you in planning your four year educational program. This booklet includes descriptions of all the courses and programs currently being offered and represents a starting point for you and your parents/guardians to begin developing an appropriate program of studies. The many options will allow you to individualize your course of study and meet your objectives, needs and interests. Take the time to read the course descriptions in this guide with your parents/guardians and include their input in your decision-making for the next academic school year.

The faculty and staff at Red Bank Regional are prepared to help you make the most of your opportunities. Should you have specific questions about any courses offered, speak with a counselor, teacher or supervisor; they can provide you with the insights that will help you to make sound course selection decisions. In addition, your counselor will meet with you and help you to choose the course offerings which are appropriate to your interests and talents and will fulfill requirements to achieve your future plans.

My personal best wishes are extended to you for a positive, involved and successful school year.

*Dawn C. Kaszuba
Director of Student Personnel Services
dkaszuba@rbrhs.org*

2 CURRICULUM AND ACADEMIC POLICIES

2.1 CURRICULUM

Red Bank Regional High School offers full year and semester courses. A wide variety of courses are offered to serve the needs and interests of the student body.

4 Year Academy Students specialize in one of the following programs:

Academy of Engineering

Academy of Finance

Academy of Information and Technology

VPA Commercial Photography

VPA Creative Writing

VPA Dance

VPA Drama

VPA Harp

VPA Instrumental Program (Brass Major, Woodwind Major, Percussion Major, String Major)

VPA Piano

VPA Studio Art

VPA Vocal Music

2.2 COLLEGE ENTRANCE REQUIREMENTS

District graduation requirements may not fulfill all college entrance requirements. It is imperative that each student review the specific entrance requirements for the colleges on their personal application list. Students planning to attend college after graduation should work closely with their counselor in selecting courses each year.

Most colleges review the following criteria to determine admission to their school:

1. The high school transcript
2. SAT scores
3. The personal statement
4. Extracurricular participation/special talents
5. Teacher/counselor recommendations

It is recommended that all college-bound students select the following courses as a minimum for college admission:

4 years of college prep English

3-4 years of Mathematics (including Algebra 1 & 2 and Geometry)

3-4 years of Social Studies

3-4 years of Science (including Biology and Chemistry)

2-3 years of the same Foreign Language

Students should also check college catalogs for specific entrance requirements. It is recommended that each student select as strong an academic program as possible.

2.3 TIMETABLE FOR COLLEGE-BOUND STUDENTS

FRESHMAN YEAR

September - August – Register on Naviance and work on interest inventory, career inventory and learning style inventory.

January - Inquire through your counselor about competing for Honors and Advanced Placement course placement. Investigate and apply for placement in 3 year academy.

Spring - Review with your counselor and parents your course selection sequential plan to insure that by graduation you will have satisfied all college preparatory course requirements.

SOPHOMORE YEAR

September - August - Use Naviance to develop and maintain your resume, review and develop goals and objectives, begin your college exploration.

October - Take Preliminary SAT 1 (PSAT): REASONING TEST.

February - Review college preparatory course sequence with your counselor and parents.

JUNIOR YEAR September - August - Use Naviance to develop and maintain your resume, review and develop goals and objectives, continue your college exploration.

October - Take Preliminary SAT I (PSAT): REASONING TEST.

January-March - Counselors will be conducting post-high school planning conferences with parents and students.

May - Take SAT I: REASONING TEST and/or the ACT. Consider taking SAT II: SUBJECT TESTS after consultation with counselor and teachers.

SENIOR YEAR September - Explore online college applications and begin to complete them. Attend the Senior meeting to review application procedures; meet with your counselor and finalize and update on Naviance a list of colleges to which you will be applying.

October or November - Take the SAT I: REASONING TEST and/or the ACT.

December - Obtain a pin from the fafsa.ed.gov website. You will use this number to complete and submit the Free Application for Federal Student Aid (FAFSA). If necessary, take the SAT I: REASONING TEST, the ACT and SAT II: SUBJECT TESTS (as necessary). Complete all college applications well in advance of deadlines.

2.4 RED BANK REGIONAL GRADUATION REQUIREMENTS

To earn a Red Bank Regional High School diploma all students must complete and pass 140 credits, and complete the graduation requirements established by the State of New Jersey and the Board of Education which include the areas listed on the chart and passing scores on the New Jersey High School Proficiency Assessment.

State requirements include the following:

	Course and credit requirements for all students entering grade 9 in:					
	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
LANGUAGE ARTS LITERACY	20 credits	20 credits assigned to grade 9 through grade 12 standards				
MATHEMATICS	15 credits including algebra I or the content equivalent**	15 credits including algebra I and geometry or the content equivalent**		15 credits 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		
SCIENCE	15 credits including at least five credits in laboratory biology/life science or the content equivalent**	15 credits including at least five credits in laboratory biology/life science or the content equivalent** and one additional laboratory/ inquiry-based science course which shall include chemistry, environmental science, or physics		15 credits including at least five credits in laboratory biology/life science or the content equivalent**; an additional laboratory/ inquiry-based science course including chemistry, environmental science, or physics; and a third laboratory/inquiry-based science course		
SOCIAL STUDIES	15 credits including satisfaction of N.J.S.A. 18A:35-1 and 2	15 credits including satisfaction of N.J.S.A. 18A:35-1 and 2; five credits in world history; and the integration of civics, economics, geography and global content in all course offerings				
FINANCIAL, ECONOMIC BUSINESS, AND ENTREPRENEURIAL LITERACY	No state requirement		2.5 credits			
HEALTH, SAFETY, AND PHYSICAL EDUCATION	3 credits in health, safety, and physical education during each year of enrollment, distributed as 150 minutes per week, as required by N.J.S.A. 18A:35-5, 7 and 8; RBRHS requires 5 credits per year					
VISUAL AND PERFORMING ARTS	5 credits					
WORLD LANGUAGES	5 credits or student demonstration of proficiency					
TECHNOLOGICAL LITERACY	Consistent with the Core Curriculum Content Standards, integrated throughout the curriculum					
21ST CENTURY LIFE AND CAREERS, OR CAREER-TECHNICAL EDUCATION	5 credits					

* School districts may establish course and/or credit requirements which exceed the State minimums.

* "Content equivalent" means courses or activities that include the same or equivalent knowledge and skills as those found in traditionally titled courses which are required for high school graduation and which are aligned with the Core Curriculum Content Standards. This content must be taught by certified teachers, may be integrated in one or more courses, may be titled differently, or may present material in an interdisciplinary or spiral format.

2.5 SPECIAL EDUCATION GRADUATION REQUIREMENTS

Special Education students must meet all state and local high school graduation requirements in order to receive a state endorsed high school diploma unless exempted in their Individualized Education Program (IEP). A description of a rationale for exemptions from the regular educational program must be included in their IEP. These students must also participate in the High School Proficiency Assessment (HSPA) as a graduation requirement.

2.6 NCAA ELIGIBILITY REQUIREMENTS

Division I:

1. Graduate from high school;
2. Complete a minimum of 16 core courses;
3. Present the required grade-point average (GPA) and SAT or ACT (sliding scale)
4. Complete the amateurism questionnaire and request final amateurism certification.

2.7 DIVISION II

1. Graduate from high school;
2. Complete a minimum of 16 core courses
3. Present a minimum 2.000 core-course grade-point average (GPA)
4. Present a minimum 820 SAT score (critical reading and math only) or 68 sum ACT score
5. Complete the amateurism questionnaire and request final amateurism certification.

Eligibility is determined by an initial eligibility index - see the NCAA website <https://web1.ncaa.org/eligibilitycenter/common/> for more details. All student athletes are encouraged to register with the NCAA in order for the Clearinghouse to review their transcript for initial eligibility during their junior year.

2.8 STUDENT ASSESSMENTS

All RBR students must take the NJ High School Proficiency Assessment (HSPA). The HSPA assesses a student's ability in Language Arts Literacy and Mathematics. Students must pass this test in order to receive a high school diploma. The HSPA will be administered to all 11th graders in March. All 9th and 10th grade students will take a practice HSPA test that will be used towards placement in courses for the following school year. All students enrolled in a Biology course must take must show proficiency on the New Jersey Biology Competency Test. This test will be administered for students during the year the course is taken.

The College Board national testing program includes the Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test (PSAT/NMSQT) and the Scholastic Aptitude Tests (SAT I and SAT II). Students taking the SAT I and SAT II must make application with ETS and pay a testing fee. The ACT is another test option for college admissions. Registration forms for the SAT and ACT are available in the Guidance Office and via the Internet. All 10th and 11th grade students will take the PSAT/NMSQT. PSAT/NMSQT fees and registration are processed and paid by the RBR Board of Education and SLC Grant.

The SAT II, which some colleges require for admission or placement purposes, is a one-hour, multiple-choice test in a specific subject. Unlike the SAT I, which measures more general abilities, the SAT II measures the student's knowledge of a particular subject. You should try to take an SAT II as soon as possible after you complete your last course in that subject. You cannot take both the SAT II and the SAT I on the same test date.

2.9 GRADING SYSTEM

Students will be graded on a numerical scale. Report cards will be mailed to parents four times each school year. Below is the interpretation for each grade range:

<u>Grade</u>	<u>Interpretation</u>
100-90	c Excellent
89-80	Above Average
79-70	Average
69-65	Below Average
64-0*	Failing

55 or above needed for Summer School review course.

<u>Grade</u>	<u>Interpretation</u>
WP or WF	Withdrew (Pass/Fail) - WF = WF on transcript, 50 configured into GPA WP = WP on transcript, no GPA impact
I	Incomplete work - no credit - temporary grade; it must be replaced by a grade before a designated time elapses
NC	No Credit
P	Pass

2.10 HONOR ROLL

To be eligible for the various Honor Rolls a student must obtain: High Honor Roll (Maxima Cum Honore) - All 90's or above.
Honor Roll (Magna Cum Honore) - At least 90 in two subjects and no grade less than 80.
Credit List (Cum Honore) - At least 80 in all subjects.

2.11 CLASS RANK

Class rank is calculated at the conclusion of the junior year. All 2.5, 5, 6, 10 and 15 credit courses are ranked with the exception of those courses receiving the "effort" grade.

A grade point average is calculated by multiplying the credit value by the final grade. A product for each course is obtained and all of the products are then totaled and divided by the total number of credits attempted to determine the student's grade point average.

Reporting of class rank is optional for all students.

2.12 CREDITS FOR GRADE LEVEL PROMOTION

Grade 9 - To qualify for placement in grade 9 a student must have successfully completed grade 8.

Any student who does not achieve the following credits will be retained in their current grade level and be deemed ineligible for privileges afforded the promotional grade level.

- 30 credits to be considered a sophomore
- 65 credits to be considered a junior
- 100 to be considered a senior

2.13 ADVANCED PLACEMENT/HONORS/IB COURSES

The district offers a variety of Honors, International Baccalaureate (IB) and Advanced Placement (AP) courses for academically talented students. Placement into these courses is determined by criteria explained in more detail under the course description. For incoming ninth graders Honors courses are offered in World Language. Placement in these courses is determined by course work, teacher recommendation, and the results of a placement test in the eighth grade.

AP Art History	Honors Biotechnical Engineering	Honors Spanish 4
AP Art Studio	Honors Chemistry	Honors US History 1
AP Biology	Honors Civil Engineering & Architecture	Honors US History 2
AP Calculus AB		Honors US History 3
AP Calculus BC	Honors Computer Integrated Manufacturing	IB Biology SL
AP Chemistry	Honors Computer Science 2	IB Chemistry SL
AP Computer Science A	Honors CyberSecurity	IB Computer Science HL
AP English 3 Language/ Composition	Honors Engineering Design & Development	IB Computer Science SL
AP English 4 Literature and Composition	Honors English 2	IB English HL
AP European History	Honors English 3	IB Environmental Systems and Societies SL
AP French	Honors English 4 Humanities	IB French HL
AP Latin	Honors French 2	IB French SL
AP Music Theory	Honors French 3	IB History of Americas HL 1
AP Physics B	Honors French 4	IB Latin HL 1
AP Physics C	Honors Latin 2	IB Latin SL
AP Spanish	Honors Latin 3	IB Mathematical Studies SL
AP Statistics	Honors Latin 4	IB Mathematics HL
AP US History	Honors Networking	IB Psychology SL
Honors Accounting 2	Honors Pre-Calculus	IB Spanish HL
Honors Aerospace Engineering	Honors Principles of Engineering	IB Theory of Knowledge
Honors Geometry	Honors Spanish 2	IB Visual Arts HL
Honors Algebra 2	Honors Spanish 3	Forensic Science (SUPA)

All Honors, International Baccalaureate, SUPA and Advanced Placement courses are weighted for the purpose of calculating class rank. Honors and courses in IB SL will receive 5 additional points and AP and IB HL courses will receive 10 additional points. All students enrolled in Advanced Placement and IB courses are required to take the examinations for the course to earn the weighted credit.

2.14 THE SCHOOL COUNSELING DEPARTMENT AND RELATED SERVICES

The school counseling program in the Red Bank Regional High School District is an integral part of the total educational process. The program is designed to help the student gain the maximum benefit from the high school experience.

This program is designed to foster self-examination, self-evaluation and consideration of alternative strategies through individual and group counseling. Career and academic planning are important components of the department's services. The school counselor can help the student evaluate personal strengths and weaknesses, which will assist in establishing and achieving realistic goals. The counselor is trained and knowledgeable in interpreting standardized tests, providing the most current information regarding the opportunities available in higher education and indicating the projections for future growth areas in the work force.

Counselors consult and work cooperatively with all members of the school staff to facilitate the student's progress.

Although counselors will routinely schedule conferences during the school year, appointments can be made at any time when seeking assistance with personal concerns, when researching career opportunities or wishing to obtain information for the college planning process.

STUDENT COUNSELING APPOINTMENT SLIPS

School counselors will schedule a number of appointments to meet with their assigned students throughout the school year. These scheduled meetings may be to review report card grades and to check that students are exhibiting evidence of keeping up with their schoolwork. Appointment slips for students are issued to students during their Block 1 class or study block. Students are directed to leave class with their appointment slip endorsed by the teacher. Upon return to class they must return the appointment slip signed by the counselor.

A student may initiate an appointment with his/her counselor by reporting to the guidance office and completing a "Request" form. Counselors will then issue passes within a 24 to 48 hour window. Typically, the student receives an appointment slip the next day. In the event of an emergency or personal matter in need of immediate attention, the counselor will typically agree to see the student immediately.

COMMUNICATION OF STUDENT PROGRESS

Interim reports are issued via the Genesis Parent Portal at the approximate midpoint of each marking period. Parents are encouraged to contact the child's teacher if questions arise pertaining to the interim report.

A report card is issued at the end of each quarter. Although grades should not be regarded as ends in themselves, they do reflect how well students are progressing in their studies from marking period to marking period. Parents/guardians and students are urged to study the report card carefully.

If parents/guardians have questions concerning the academic progress of their child or questions concerning their child's overall adjustment to the school they have several options:

1. Contact the classroom teacher.
2. Contact the appropriate counselor.
3. Contact the appropriate department supervisor.

2.15 FRESHMAN ACADEMY

The Freshman Academy, developed around the concept of a small learning community, is a school-within-a-school organized around interdisciplinary teams of English, math, science, and social studies. Incoming freshmen are connected to a select team of caring academy staff who will use research proven best instructional strategies to teach the curriculum as well as address their students' needs more personally. Teachers work in a collaborative environment and are committed to the learning of the students they share.

MISSION

The mission of the Freshman Academy is to assist the incoming freshman in making a smooth transition into high school and meet the rigorous high school standards.

GOAL

To provide programs and supports addressing the unique needs of entering freshman resulting in increased achievement.

ACADEMY FEATURES

Incoming first time freshmen are assigned to a house of approximately 100 students. (A house is an organizational arrangement that assigns students and teachers to teams in a set of rooms). Self-contained special education students will continue with the same level of support. Mainstreamed students, supported by special education instructors, will be assigned to a house with the same team expectations

- Each House consists of cross-curricular teams of English, math, science, and social studies teachers with one member serving as a team coordinator (Lead Teacher)
- Each House has a common planning period for staff to meet.
- Students may participate in required and elective classes outside their house, as well as other activities such as clubs and sports.
- Engaging and challenging curriculum with an integrated, interdisciplinary approach that uses academic content and skills to address real world projects and problems
- Students remain with the teachers in their houses the entire year.
- Academically rigorous education that maintains high expectations for each student
- Careful monitoring of student performance and attendance
- Data -driven decision making
- Structured system of appropriate extra help
- Intensive math and literacy instruction delivered to students who are in need of extra help
- Frequent contact between school and parents
- Literacy infusion into all content areas
- Ongoing recognition of accomplishments

BENEFITS TO STUDENTS (Research Based) include:

- increased academic achievement,
- reduced discrepancies in the achievement gap that plague poorer children and, too often, children of color,
- increased student attendance, attitudes and behavior,
- reduces isolation that often seeds alienation and violence,
- promotes positive feelings about self and others,
- increased number of students matriculating to 10th grade,
- lower student drop-out rate,
- increased extracurricular participation rate,

- develops student awareness of academic/career options,
- stronger student-teacher relationships,
- enhancement of student ability to apply academic content and the Skills For Success: Learning, Thinking, Technology, Interpersonal, and Communication skills in real world and workplace settings,
- integration of academic and technical skills, and
- involvement of each student along with his/her parent/guardian in a guidance system.

2.16 SPECIAL EDUCATION

To the maximum extent appropriate, a student with a disability is educated with students who are not disabled. A full continuum of alternative placements is available to meet the needs of students with disabilities for special education and related services. Placement is based on his or her individualized education program. All students follow the New Jersey Core Curriculum Content Standards with appropriate accommodations and modifications. The following programs are among the options offered to the students; in-class resource programs, pull-out replacement resource programs, supplementary instructions and support, special class programs and self-contained classes.

2.17 SUMMER ENRICHMENT PROGRAMS

Summer Slam (9100) - This program infuses core academic courses (English, math, and social studies), along with a recreational component including arts and crafts. The students are given an opportunity to begin their summer reading requirements. Students are able to mix, mingle and befriend other students from RBR's home sending districts before the opening day of school. CR 2.5 YO Incoming Freshmen

ELL Writing Program (9102) - RBR's "English Language Learners" is a program designed to reinforce writing skills. The program is divided into two groups, one for higher performing students and the other for students in need of more intensive help. For the higher performing ELL student, this program is required in order for their participation in the Brookdale "Fast Start" program for ELL seniors. Student participants who adhere to the attendance policy receive 2.5 credits toward graduation.

2.18 ENRICHMENT PROGRAM

TOP Program (9103) - TOP is a Teen Outreach Program designed to teach students life skills, healthy behaviors, and a sense of purpose. TOP is an evidenced-based curriculum designed to increase academic performance and retention rates while reducing absenteeism and pregnancy rates. Interested students must have an open study period to participate. Students who are admitted to the program and adhere to the attendance policy receive 1.25 credits toward graduation through option two. CR 1.25 YO 9

2.19 ADVANCEMENT VIA INDIVIDUAL DETERMINATION (AVID)

AVID is, at heart, a program that equips ordinary students to accomplish extraordinary things. Potential AVID students are identified by counselors, teachers, parents, or by students themselves. The three criteria for AVID students are: ability, desire and determination. The AVID program requires hard work and perseverance and is effective only if participation is voluntary.

AVID 9 (9000) - Red Bank Regional offers AVID 9 as its initial elective course of the four year program. Students may expect to be challenged with rigorous writing tasks, collaborative exercises, inquiry based projects, and reading comprehension activities. This class makes college preparation its number one onus and asks the student to motivate himself to achieve beyond his own expectations. Each AVID student enrolled in this course is asked to strive for honors or AP placement to ensure he is challenging himself to the fullest. CR 5, YO 9

AVID 10 (9001) - Students will engage in activities designed to develop the learning process. These activities include writing assignments, Socratic Seminars, group problem solving and in class projects. We will also be doing goal setting and a plan of how to achieve their goals. The sophomore AVID class will create a community service project. The students will be responsible for researching, designing, and completing the project. We will also visit colleges, complete a college research project, and utilize team building exercises to help students set future educational and career goals. CR 5, YO 10

AVID 11 (9002) - This course is designed for those students who elect to take a course that prepares them for the rigor required for college work. Students will engage in higher levels of WIC-R (writing, inquiry, collaboration and reading) strategies than experienced in prior years of AVID. During the course of the year students will prepare for standardized tests (HSPA, SAT, ACT), begin the college search process, and refine their note-taking and testing techniques. AVID 11 juniors are expected to begin to take higher-level classes and maintain a 2.0 GPA for the entire year. CR 5, YO 11 PRE one year of AVID

AVID 12 (9003) - In the senior elective, there will be an emphasis on analytical writing and preparation for college entrance and placement exams. Students will research scholarship information and complete the admission process for all colleges they apply to. Students will cultivate their study skills through tutoring sessions, Cornell note-taking, and research abilities. Students will build their community involvement through participation in school organizations and community service. By the end of the course, students will compile a senior portfolio and write an extended essay. CR 5, YO12 PRE one year of AVID

2.20 SENIOR YEAR OPTIONS

In order for any student to be eligible for a senior option program or shared time program at Brookdale Community College, they must meet all graduation requirements to be a senior at Red Bank Regional High School, passed all sections of the HSPA, have a good attendance and discipline record, a cumulative grade point average of at least an 82 at the end of their junior year and interview for their selected option or plan.

Senior Year Student Option (1010) - We are pleased to offer several different and diverse senior year option plans to the senior class of 2011 at Red Bank Regional High School. Senior options are opportunities for our students to work in internship positions or to participate in community service projects, without pay, for credit their senior year. Seniors will be scheduled for 3 blocks per day at the high school and then leave school to pursue the approved option of their choice. CR 15 YO 12

Brookdale Community College Shared Time Program (1020) - We also have formed an articulation agreement with Brookdale Community College that will allow our seniors to conclude the school day at Red Bank Regional High School at the end of their scheduled classes and then travel to Brookdale Community College to take 2 courses per semester for 6 college credits. All fees and transportation are the responsibility of the student. We have recommended preapproved courses of study by Brookdale and Red Bank Regional. For more information please see Mrs. Kaszuba in the counseling office. CR10 per semester, 20 total with a passing grade from Brookdale Community College. YO 12

ELL Brookdale Community College Shared Time Program (1022) - Seniors are eligible for the "Puente al Futuro" program, or "Bridge to the Future," a "Fast Start" college program at Brookdale Community College. This program offers ELL seniors the opportunity to take six college credits in their senior year of high school. Grants fund this program, and include book costs and transportation. Students successful in the program may then apply for a full scholarship upon graduation from Red Bank Regional and continue their college education at Brookdale Community College.

News Writing (1175) - Practical instruction in news writing, feature writing and reporting and interviewing for newspapers. How to cover and write about meetings, speeches, crime, sports, the courts and business. standard news style and ethical and legal limitations on the press. This is a concurrent enrollment course offered through Fairleigh Dickinson University where students may earn 3 college credits upon payment of a reduced tuition and successful completion of the course. This course will meet after school two days a week, and students will earn both high school and college credit for the course through option 2. CR 5, YO 11, 12 (PENDING APPROVAL)

Intro to African American Studies (2256) - An overview of African American life in the U.S., past and present; interdisciplinary exploration of aspects of Black America including such topics as: African American identity; defining experiences in the United States; African American contribution to American culture and society; connections to Africa and other African Diaspora communities. This is a concurrent enrollment course offered through Fairleigh Dickinson University where students may earn 3 college credits upon payment of a reduced tuition and successful completion of the course. This course will meet after school two days a week, and students will earn both high school and college credit for the course through option 2. CR 5, YO 11, 12 (PENDING APPROVAL)

3 COURSE OFFERINGS

3.1 USING THIS GUIDE

Just a brief reminder before you start your course selection, every effort is made to put the best schedule together for each student. Due to scheduling conflicts and the academic rigor of the individual student's requests, there is no guarantee that selected courses will fit in a schedule. When completing your course selections, please list as many alternates as possible in case your first choice does not fit into your schedule. Failure to return your course selection form to the counseling office signed by both you and your parent/guardian can have a negative impact on your course selection.

This booklet contains brief descriptions of each course offered at Red Bank Regional High School. Certain information is abbreviated. The meaning of the abbreviation follows:

CR = number of high school credits given for passing the course

YO = the grade level or year in which the course is offered

PRE = prerequisite course required with a passing final grade

All 2.5 credit courses are semester-long courses. All other courses are full-year courses with the exception of Health (one marking period) and Physical Education (three marking periods).

*Academies:
Scope and
Sequence*

3.2 VISUAL AND PERFORMANCE ARTS ACADEMY

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
English 9 CP/H	English 10 CP/H	English 11 CP/H/AP	English 12 CP/H/AP
Global Studies CP/H	US History 1 CP/H	U.S. History II CP/H/AP	Personal Financial Literacy 2.5 credits/ Elective of Choice 2.5 credits
Algebra I or Geometry or Honors Algebra II	Geometry or Honors Algebra II or Honors Pre-Calculus	Algebra II or AP Calculus AB or AP Statistics or Pre-Calculus or Other math Elective	AP Calculus AB or AP Calculus BC or AP Statistics or Calculus or Other math Elective
Exploratory Science or Biology	Biology or Chemistry or Honors Chemistry	Chemistry or Physics or AP Biology or AP Chemistry or Other science elective	Physics or AP Physics B or C or AP Biology or AP Chemistry or Other science elective
VPA Major 1	VPA Major 2	VPA Major 3	VPA Major 4
VPA Major 1	VPA Major 2	VPA Major 3	VPA Major 4
Physical Education/ Health	Physical Education/ Health	Physical Education/ Health	Physical Education/ Health
World Language	World Language	World Language	World Language or Elective of Choice

***Instrumental, Vocal and String Majors must also take an ensemble class (Band, Concert Choir, or Orchestra). As a result, their PE class will be offered in the mod daily.**

VPA Commercial Photography 1 (7795), 2 (7796), 3 (7797), 4 (7798) - This is a vocational, four-year sequential program. In addition to learning how to operate the various pieces of photographic equipment, the following activities and projects will develop practical experience in various photographic techniques. Level 1 will be introduced to the procedure for correctly handling light-sensitive materials, chemicals and basic photographic equipment. Level 2 will focus on digital photography examining 35mm versus digital. Photoshop software will be introduced. Level 3 will work with both 35mm and digital photography. Innovative and alternative processes will be introduced. Level 4 or AP Studio Art students will work independently to create a cohesive body of work resulting in a final exhibit and portfolio possessing quality prints and overall presentation. Photo critiques and photo history will be taught throughout the year. These classes meet for a full block both A & B days. CR 10, YO 9,10,11,12, PRE Portfolio/Interview

VPA Creative Writing 1 (7755), 2 (7756), 3 (7757), 4 (7758) - This program is an accelerated writing course for the serious student of writing. Taught in a genre approach in a workshop setting, the course demands that the student set individual reading and writing goals in addition to working in assigned forms. Cross-disciplinary projects, classroom visits by professional writers, competitions, publication opportunities, and field trips to readings and festivals are part of the curriculum. These classes meet for a full block both A & B days. CR 10, YO 9,10,11,12, PRE Portfolio/Interview

VPA Dance 1 (7760), 2 (7761), 3 (7762), 4 (7763) - This is a vocationally focused, four-year sequential program which includes ballet, modern, jazz and hip-hop techniques. In addition to performance, students study dance history, anatomy and physiology, nutrition, careers and cultural influences. The course includes dance field trips, concerts, and master classes run by professional dancers. After school rehearsals for concerts are required throughout the year. These classes meet for a full block both A & B days. CR 10, YO 9,10,11,12, PRE Audition

VPA Drama 1 (7765), 2 (7766), 3 (7767), 4 (7768) - This is a comprehensive, career-oriented, four-year sequential program for the serious drama student. The program covers all aspects of theatre with the focus being the refinement of the actor's skill. Course work is augmented by guest artists, productions, and field trips. After school rehearsals may be required. Students must take the elective Stage Technology prior to senior year as part of the Drama Major. This course meets for a full block both A & B days. CR 10, YO 9,10,11,12, PRE Audition

VPA Harp Major 1 (7731) - This is a vocationally focused, performance-based, sequential course that prepares the serious harp student for the demands required to pursue music in a Conservatory, College or University. The curriculum, at each level, includes form and analysis, ear training, theory, music history, sight reading, and ensemble playing. The student is encouraged, but not required, to study privately with a harp teacher and to perform throughout the year for any of a

number of programs. Each student will be required to perform in two concerts as a soloist, accompanist or in ensemble. The curriculum may also include guest artists and various field trips. The student in this program must also register for the appropriate levels of VPA Music History, VPA Music Theory and VPA Musicianship. AP Music Theory is required in grade 11. CR 5, YO 9,10,11,12, PRE Audition

VPA Instrumental Major: Woodwind 1 (7710), 2 (7711), 3 (7712), 4 (7713) - This is a vocationally focused, four-year sequential program for the serious woodwind instrumentalist. (Instruments studied include flute, clarinet, saxophone, bassoon, and oboe). The primary concentration of this course is the development of total musicianship for the woodwind player through experiential learning in woodwind instrument technique, repertoire, performance practices, critical thinking and other aspects of musicianship. The students in this program must also register for the appropriate levels of VPA Music History, VPA Music Theory, VPA Musicianship and RBR Band. AP Music Theory is required in the third year of the program. CR 5, YO 9,10,11,12, PRE Audition

VPA Instrumental Major: Brass 1 (7726), 2 (7727), 3 (7728), 4 (7729) - This is a vocationally focused, four-year sequential program for the serious brass instrumentalist. (Instruments studied include trumpet, trombone, French horn, baritone, and tuba). The primary concentration of this course is the development of total musicianship for the brass player through experiential learning in brass instrument technique, repertoire, performance practices, critical thinking and other aspects of musicianship. The students in this program must also register for the appropriate levels of VPA Music History, VPA Music Theory, VPA Musicianship and RBR Band. AP Music Theory is required in the third year of the program. CR 5, YO 9,10,11,12, PRE Audition

VPA Instrumental Major: Percussion 1 (7714), 2 (7715), 3 (7716), 4 (7717) - This is a vocationally focused, four-year sequential program for the serious percussionist. (Instruments studied include snare drum, timpani, xylophone, marimba, and auxiliary percussion). The primary concentration of this course is the development of total musicianship for the percussionist through experiential learning in percussion technique, repertoire, performance practices, critical thinking and other aspects of musicianship. The students in this program must also register for the appropriate levels of VPA Music History, VPA Music Theory, VPA Musicianship and RBR Band. AP Music Theory is required in the third year of the program. CR 5, YO 9,10,11,12, PRE Audition

VPA Instrumental Major: Strings 1 (7720), 2 (7721), 3 (7722), 4 (7723) - This is a vocationally focused, four year sequential program for the serious orchestra student. (Instruments studied include violin, viola, cello, or bass). The primary concentration of this course is the development of total musicianship for the string musician through experiential learning in string technique, repertoire, performance practices, critical thinking and other aspects of musicianship. Field trips, performances, master classes, and participation in concerts will be reflected in students' grades. The student in this program must also register for the appropriate levels of VPA Music History, VPA Music Theory, VPA Musicianship and Orchestra. AP Music Theory is required in the third year of the program. CR 5, YO 9,10,11,12, PRE Audition

VPA Musicianship (7741) - This is a vocationally focused, full year course which sequentially follows VPA Music Theory. This course will focus on essential aural skills, such as ear training, sight-singing, as well as practical application of keyboard harmony. Musical form and advanced theoretical concepts will also be introduced. This course is required for all music majors. CR 5, YO 9,10,11,12, PRE VPA Music Theory; Vocal, Piano, or Instrumental Majors Only

VPA Music Theory (7740) - This is a vocationally focused, full year course beginning a sequential program in music theory for VPA music majors. Students will hone skills needed to read and write music efficiently, as well as work with the symbolic, mathematical and analytical concepts and relationships in music's structure. CR 5, YO 9,10,11,12, PRE Vocal, Piano, and Instrumental Majors Only

VPA Music History (7743) - This is a vocationally focused, full year course which sequentially follows AP Music Theory for all VPA music majors. Music History covers all major music time periods and genres. The course is designed to help student's correlate historical knowledge and styles to their own personal music repertoire. CR 5, YO 9,10,11,12, PRE AP Music Theory; Vocal, Piano, or Instrumental Majors Only

VPA Piano 1 (7780), 2 (7781), 3 (7782), 4 (7783) - This is a vocationally focused, performance-based, sequential course that prepares the serious piano student for the demands required to pursue music in a Conservatory, College or University. The curriculum, at each level, includes form and analysis, ear training, theory, music history, sight reading, and ensemble playing. The student is encouraged, but not required, to study privately with a piano teacher and to perform throughout the year for any of a number of programs. Each student will be required to perform in two piano concerts as a soloist, accompanist or in ensemble. The curriculum may also include guest artists and various field trips. The student in this program must also register for the appropriate levels of VPA Music History and VPA Music Theory and VPA Musicianship.

AP Music Theory is required in grade 11, 12. CR 5, YO 9,10,11,12, PRE Audition

VPA Studio Art 1 (7790), 2 (7791), 3 (7792), 4 (7793), AP Studio Art (7794) - This is a vocationally focused, four-year sequential program for the serious art student. In each level, concepts and skills in drawing, painting, sculpture, illustration and computer imaging are combined in the study of both the commercial and fine arts fields. In levels 3 and 4, mastery of advanced art techniques and portfolio development are required. Classes emphasize art skills, history, aesthetics, criticism and careers in preparation for college, advanced technical school or the workplace. Student exhibitions, interdisciplinary and community projects, professional guest artists, and museum/art-related field trips are part of the curriculum. These classes meet for a full block both A & B days. CR 10, YO 9,10,11,12, PRE Portfolio/Interview

VPA Vocal Music 1 (7770), 2 (7771), 3 (7772), 4 (7773) - This is a vocationally focused, four-year sequential program for the serious vocal student. The primary concentration of this course is the development of total musicianship for the solo singer through experiential learning in vocal technique, repertoire, performance practices, critical thinking and other aspects of musicianship. Field trips, performances, and participation in concerts will be reflected in students' grades. The student in this program must also register for the appropriate levels of VPA Music History and VPA Music Theory and VPA Musicianship and Concert Choir. AP Music Theory is required in the third year of the program. CR 5, YO 9,10,11,12, PRE Audition

AP Music Theory (7778) - This is an advanced course for the student planning to continue music study in college or music school. It will prepare students for the AP Music Theory exam, which they must take in May. Topics covered include chord constructions, chord analysis, musical forms, ear training, and dictation. CR 5, YO 11,12. Suggested PRE completed VPA Musicianship, Music Theory Elective 2, Permission of the Instructor

3.3 ACADEMY OF INFORMATION TECHNOLOGY - COMPUTER SCIENCE PATHWAY

Program Profile: Students may take classes as general electives or enroll in AOIT as a major at RBRHS. Courses listed under Applied Technology, Pre-Engineering and Comp-TIA Certification also can be enrolled in for AOIT credit. For more information on majoring in AOIT see your counselor for course sequencing for each of the study tracks.

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
English 9 CP/H	English 10 CP/H	English 11 CP/H/AP	English 12 CP/H/AP
Global Studies CP/H	US History 1 CP/H	U.S. History II CP/H/AP	Personal Financial Literacy 2.5 credits/ Elective of Choice 2.5 credits
Algebra I or Geometry or Honors Algebra II	Geometry or Honors Algebra II or Honors Pre-Calculus	Algebra II or AP Calculus AB or AP Statistics or Pre-Calculus or Other math elective	AP Calculus AB or AP Calculus BC or AP Statistics or Calculus or Other math elective
Exploratory Science or Biology	Biology or Chemistry or Honors Chemistry	Chemistry or Physics or AP Biology or AP Chemistry or Other science elective	Physics or AP Physics B or C or AP Biology or AP Chemistry or Other science elective
Introduction to Computer Science	Honors Computer Science 2	AP Computer Science	Web and Mobile Application Development
Introduction to Computer Systems	Honors Networking	Honors CyberSecurity or AOIT/AOE elective	Honors Digital Forensics or AOIT/AOE elective
Physical Education/ Health	Physical Education/ Health	Physical Education/ Health	Physical Education/ Health
World Language	World Language	World Language	World Language or Elective of Choice

3.4 ACADEMY OF INFORMATION TECHNOLOGY - NETWORKING PATHWAY

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
English 9 CP/H	English 10 CP/H	English 11 CP/H/AP	English 12 CP/H/AP
Global Studies CP/H	US History 1 CP/H	U.S. History II CP/H/AP	Personal Financial Literacy 2.5 credits/ Elective of Choice 2.5 credits
Algebra I or Geometry or Honors Algebra II	Geometry or Honors Algebra II or Honors Pre-Calculus	Algebra II or AP Calculus AB or AP Statistics or Pre-Calculus or Other math Elective	AP Calculus AB or AP Calculus BC or AP Statistics or Calculus or Other math Elective
Exploratory Science or Biology	Biology or Chemistry or Honors Chemistry	Chemistry or Physics or AP Biology or AP Chemistry or Other science elective	Physics or AP Physics B or C or AP Biology or AP Chemistry or Other science elective
Introduction to Computer Systems	Honors Networking	Honors CyberSecurity	Honors Digital Forensics
Introduction to Computer Science	Honors Computer Science 2	AP Computer Science or AOIT/AOE elective	Web and Mobile Application Development or AOIT/AOE elective
Physical Education/ Health	Physical Education/ Health	Physical Education/ Health	Physical Education/ Health
World Language	World Language	World Language	World Language or Elective of Choice

AOIT/AOE Electives:

Computer Aided Design (CAD)	Digital Electronics
Introduction to Engineering Design	Digital Photography
Honors Civil Engineering and Architecture**	Web Design 1/Web Design 2
Honors Aerospace**	Stage Technology
Honors Biotech**	

**Requires instructor approval

It is suggested that students pursuing the following courses should meet the following criteria:

****Honors Networking: maintain an 85 average in the prerequisite course (Intro Comp Systems OR Digital Electronics) and teacher recommendation.

****Honors Computer Science 2: maintain an 85 average for the year in the Introduction to Computer Science and teacher recommendation.

****Honors CyberSecurity: maintain an 85 average for the year in the Honors Networking course and teacher recommendation OR passing the COMPTIA Net+ exam and teacher recommendation. Students will also be required to sign an Ethics Agreement.

****AP Computer Science: maintain an 85 average for the year in Honors Computer Science 2 and teacher recommendation.

****Honors Digital Forensics: maintain an 85 average for the year in the Prerequisite course (Hon Networking) and teacher recommendation OR passing the COMPTIA Sec+ exam and teacher recommendation. Students will also be required to sign an Ethics Agreement. May be taken concurrently with Honors CyberSecurity

****Honors Web and Mobile Application Development: maintain an 85 average for the year in AP Computer Science, passing the AP Computer Science exam with a 3 or higher, and teacher recommendation.

Introduction to Computer Science (6640) - An entry level course for students with no prior computer programming experience. Students will learn fundamental programming concepts while creating animated stories and interactive games using Alice. At the end of the year students will begin to make the transition from programming in Alice to programming in C#. CR 5 YO 9, 10, 11, 12

Honors Computer Science 2 (6641) - In this course students will analyze and create classic arcade games in the C# programming language. This course will focus on teaching object oriented programming concepts, algorithm design, arrays, two dimensional arrays and lists. This will help students to prepare for the AP Computer Science A exam. Once the students have created games they will be put onto an Xbox 360. CR 5 YO 10, 11, 12 PRE: Introduction to Computer Science. A grade of 85 or higher in PRE and supervisor and teacher recommendation is suggested.

AP Computer Science A (6642) - AP Computer Science A is a rigorous curriculum that requires students to learn how to solve problems using computers. AP Computer Science A puts an emphasis on problem solving techniques. Students will learn Computer Science concepts such as conditionals, looping, object oriented programming and data structures. The emphasis of the course is on the use of a logical approach and analytical thinking while using a computer to solve problems. The programming language used in this course is Java. This course prepares students to take the AP Computer Science A test and will aid them in preparing the Program Dossier and preparing for the IB HL course. YO 11, 12 PRE Introduction to Computer Science, Honors Computer Science. PRE: Introduction to Computer Systems. Grade of 85 or better in PRE and teacher recommendation is suggested.

International Baccalaureate Computer Science HL (6694) - IB Computer Science HL is a two year course with a rigorous curriculum. The student will learn problem solving techniques and Computer Science concepts such as conditionals, looping, object oriented programming and data structures. Students will develop a more in depth understanding of computer mathematics and logic, file organization, a deeper look into system fundamentals, and abstract data structures and algorithms. The programming language used in this course is Java. This course prepares students to take the IB Computer Science HL test and will aid them in preparing the Program Dossier. YO 11, 12 Prerequisite: APCS A/IBCS HL. Co-requisite: Honors Networking. A grade of 85 or higher in PRE and instructor approval is suggested.

Web and Mobile Application Development (6645) - In this course the students will be creating applications for to be used on the Internet. Students will be learning to create databases and create applications to store and access information in the database. Students will also be learning the CSS involved in making web applications available on mobile devices. Last the focus will be on creating applications for both the iPhone and Droid smart phones. Students will be continuing on in their studies of and analysis of Data Structures while learning how to create Web and Mobile applications. YO 12 Prerequisite: APCS A/ IBCS HL. A grade of 85 or higher in PRE and supervisor and teacher recommendation is suggested.

Introduction to Computer Systems (6690) - Course prepares students to install and modify computer systems, analyze and repair system malfunctions, and install software. Students will learn entry-level computer hardware concepts which include: review of basic electronics, diagnosing of computer systems, proper use of test equipment and tools, testing various operating systems and implementing malware solutions. The curriculum includes hands-on labs in which students design and assemble a computer from components, configure peripherals and implement home networking solutions. CR 5, YO 9,10,11,12

Honors Networking (6691) - Students in this course develop an understanding of the features and functions of networking components and will possess the skills needed to install, configure and troubleshoot basic networking hardware, protocols and services. The course includes hands-on labs which develop technical ability in the areas of media, topologies, protocols, network implementation, wireless standards and gigabit Ethernet. Course receives weighted credit as an Honors course and students are expected to take the CompTIA Net+ Certification exam. CR 5, YO 10,11,12, PRE Introduction to Computer Systems OR Digital Electronics. Grade of 85 or better in PRE and teacher recommendation is suggested.

Honors CyberSecurity (6692) - Coursework covers implementation and monitoring of security on network and computer systems. Students will learn how to identify and protect against security threats such as hackers, eavesdropping and network attacks, as well as the basics of cryptography and computer forensics. The course includes hands-on labs which provide practice in the implementation of firewalls, certificates, VLANs, and Intrusion Detection. Course receives weighted credit as an Honors course and students are expected to take the CompTIA Security+ Certification exam. CR 5, YO 11,12, PRE Honors Networking. Grade of 85 or better in PRE and teacher recommendation is suggested.

Honors Digital Forensics (6696) - Course covers the fundamentals of cyber-crime scene analysis. Students will learn: how to use basic digital information retrieval applications and tools; best practices in securing, acquiring and examining digital data; the various laws and regulations dealing with computer forensics, including the rules of evidence and chain of custody. Students will participate in a weekly blog which examines how the lack of International legal standards affects the

fight against cybercrime. The course includes hands-on labs with professional forensic software. To complete the course, students must complete both a written exam and a practical exam in which they investigate / report on a computer crime scene. Course receives weighted credit as an Honors course. CR 5, YO 12 PRE Honors Networking. Grade of 85 or better in PRE and teacher recommendation is suggested.

* The **CompTIA** (Computing Technology Industry Association) certification programs are the recognized industry standard for foundation-level Information Technology skills. Many hardware and software vendors adopt CompTIA programs, and use them as prerequisites for higher-level certification programs. For example, the CompTIA Network+ certification is endorsed as an introductory standard by Microsoft, IBM, Cisco and Novell. Acquiring the Net+ or Security+ certifications will put students in an advantageous position in their applications to college or employment.

** Brookdale has Tech Prep articulation agreements with area high schools. The Tech Prep program allows eligible high school seniors to earn college credit for selected high school coursework that meets college standards. The credits earned through Tech Prep are "banked" for up to two years, until a student successfully completes an additional twelve credits at Brookdale. At that time, the credits earned through Tech Prep are awarded to the student free.

3.5 ACADEMY OF ENGINEERING - ACADEMIC PATHWAY

Program Profile: RBRHS implemented a Pre-Engineering Program in 1999 by joining forces with the non-profit organization Project Lead the Way (PLTW). The PLTW college-prep courses offer an array of basic and more specialized experiences through high-tech engineering activities. PLTW was created to address the shortage of young people interested in technology and engineering in our country. Currently there are over 2000 schools around the country who offer PLTW and teachers receive over 80 hours of training in order to teach each course. The cutting edge curriculum of the courses in PLTW stresses hands on learning. When these courses are combined with traditional mathematics and science courses they introduce students to the scope, rigor and discipline of engineering and technology prior to entering college. The PLTW graduate will be better prepared for college engineering programs and more likely to be successful, thus reducing the attrition rate in many college programs. PLTW courses are designed to be challenging, yet fun and interesting. For more information, visit www.pltw.org.

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
English 9 CP/H	English 10 CP/H	English 11 CP/H/AP	English 12 CP/H/AP
Global Studies CP/H	US History 1 CP/H	U.S. History II CP/H/AP	Personal Financial Literacy 2.5 credits/ Elective of Choice 2.5 credits
Algebra I or Geometry or Honors Algebra II	Geometry or Honors Algebra II or Honors Pre-Calculus	Algebra II or AP Calculus AB or AP Statistics or Pre-Calculus or Other math Elective	AP Calculus AB or AP Calculus BC or AP Statistics or Calculus or Other math Elective
Exploratory Science or Biology	Biology or Chemistry or Honors Chemistry	Chemistry or Physics or AP Biology or AP Chemistry or Other science elective	Physics or AP Physics B or C or AP Biology or AP Chemistry or Other science elective
Introduction to Computer Science	Honors Principles of Engineering	Honors Computer Integrated Manufacturing	Honors Engineering Design and Development
Intro to Engineering Design	Digital Electronics or Intro to Computer Systems	Honors Civil Engineering and Architecture or Honors Aerospace Engineering or Honors Biotechnical Engineering	Honors Civil Engineering and Architecture or Honors Aerospace Engineering or Honors Biotechnical Engineering
Physical Education/ Health	Physical Education/ Health	Physical Education/ Health	Physical Education/ Health
World Language	World Language	World Language	World Language or Elective of Choice

It is suggested that students pursuing the following courses should meet the following criteria:

**** Honors Principles of Engineering: maintain an 85 average in either Introduction to Engineering Design or Physics and have the prerequisite of Geometry or instructor approval.

**** Honors Computer Integrated Manufacturing: maintain an 85 average in Introduction to Engineering Design and take a pre/co-requisite of Geometry or instructor approval.

**** Civil Engineering & Architecture: complete Principles of Engineering and Geometry and/or have instructor approval.

**** Honors Aerospace Engineering: complete Principles of Engineering and Geometry and/or have instructor approval.

**** Honors Engineering Design and Development: complete Computer Integrated Manufacturing, Principles of Engineering

and Digital Electronics and have instructor approval.

**** Honors Biotechnical Engineering: complete Geometry and Principles of Engineering and have instructor approval.

Introduction to Engineering Design (IED) (6680) - Ever tried to design something new or draw up an idea you wanted to share with your friends and wondered how you could communicate your idea? Or, have you wondered how someone designed that new MP3 player or sleek new phone? Then this is the course for you! The major focus of the course is learning how to take an idea through the design process that will eventually be manufactured or produced. As you learn about various aspects of engineering and engineering design, such as how engineers communicate through drawing, you will apply what you learn through various activities, projects, and problems. This course is a pre-requisite for Principles of Engineering and Computer Integrated Manufacturing. CR 5, YO 9,10,11,12. Pre/co-requisite Algebra

Digital Electronics (DE) (6681) - How does your iPod work? How does a computer's Random Access memory save data? Digital Electronics is a full year course in which students learn about basic electricity, electronic theories, digital integrated circuits and how digital devices work in our world. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices. CR 5, YO 10,11,12. Prerequisite: Introduction to Engineering Design or Intro to Computer Science and Algebra (with a 85 GPA suggested) or instructor approval.

Honors Principles of Engineering (POE) (6682) - This pre-engineering course helps students understand the field of engineering and technology. Exploring various technology systems and manufacturing processes, students learn how engineers and technicians use applied physics, math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change. Students enrolled in this course are eligible to test for college credit. CR 5, YO 10,11,12. Prerequisite: Introduction to Engineering Design or Physics (with a 85 GPA suggested) and Geometry or instructor approval.

Honors Computer Integrated Manufacturing (CIM) (6683) - Is the study of manufacturing, planning, integration and implementation of automation. The course explores manufacturing history, individual processes, systems and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering. This reflects an integrated approach that leading manufacturers have adopted to improve safety, quality, and efficiency. CR 5, YO 10, 11. Prerequisite: Introduction to Engineering Design (with a 85 GPA suggested) and Geometry or instructor approval.

Honors Civil Engineering and Architecture (CEA) (6684) - Civil Engineering and Architecture is the study of the design and construction of residential and commercial building projects. The course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency and careers in the design and construction industry. The major focus of this course is to expose students to the design and construction of residential and commercial building projects, design teams and teamwork, communication methods, engineering standards, and technical documentation. CR 5, YO 11,12. Prerequisite: Principles of Engineering and Geometry or instructor approval.

Honors Aerospace Engineering (6685) - Through hands-on engineering projects developed with NASA, students learn about aerodynamics, astronautics, space-life sciences, and systems engineering in this Project Lead the Way class (which includes the study of intelligent vehicles like the Mars rovers Spirit and Opportunity.) This Honors course expands horizons with Projects developed with NASA-aerodynamics, astronautics, space-life sciences, and systems engineering. Students enrolled in this course are eligible to test for college credit. CR 5, YO 11,12. Prerequisite: Principles of Engineering and Geometry or instructor approval.

Honors Engineering Design and Development (EDD) (6686) - "Don't you hate it when" is a common statement made by people that are constantly thinking of ways to improve products or situations. Engineering Design and Development (EDD) is the course that allows you to design a solution to a technical problem of your choosing. Now is the chance to eliminate one of the "Don't you hate it when" statements of the world. This course is an engineering course in which you will work in teams to research, design, and construct a solution to an open-ended engineering problem. The product development lifecycle and a design process will be used to guide and help your team reach a solution to the problem. You and your team will present and defend your solution to a panel of outside reviewers at the end of the school year. CR 5, YO 12, Prerequisite: Computer Integrated Manufacturing, Principles of Engineering and Digital Electronics and instructor approval.

Honors Biotechnical Engineering (6687) - This course introduces students to the fundamental aspects of biotechnology and the engineering technologies related to the emerging field. Instruction will emphasize how engineering sand technology processes can be used to create new products. Engineering principles will be used in conjunction with scientific knowledge to explore and investigate such areas as: development of biomedical devices; pharmaceutical and medical therapies; and agricul-

tural research and development. Students will learn how new products are developed, produced and will have opportunities to discuss the impact of these technological advances on society. Topics covered include Safety, Biotechnical, Environmental and Agricultural, Forensic, Biomedical, Orthopedic, and Cardiovascular engineering fields. CR 5, YO 11,12. Prerequisite: Geometry, Principles of Engineering and teacher recommendation. It is recommended that the student has taken two years of science.

3.6 GRAPHIC COMMUNICATIONS - ACADEMIC PATHWAY

Program Profile: The Vocational-Technical program provides a course of study which is designed to allow students to prepare and eventually enter the workforce or continue education at a technical college. Students learn subject matter and how it relates to a work environment as well as important skills for continuing education. Students can receive a certificate for satisfactory completion of a National Occupational Competency Test.

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
English 9 CP/H	English 10 CP/H	English 11 CP/H/AP	English 12 CP/H/AP
Global Studies CP/H	US History 1 CP/H	U.S. History II CP/H/AP	Personal Financial Literacy 2.5 credits/ Elective of Choice 2.5 credits
Algebra I or Geometry or Honors Algebra II	Geometry or Honors Algebra II or Honors Pre-Calculus	Algebra II or AP Calculus AB or AP Statistics or Pre-Calculus or Other math Elective	AP Calculus AB or AP Calculus BC or AP Statistics or Calculus or Other math Elective
Exploratory Science or Bi- ology	Biology or Chemistry or Honors Chemistry	Chemistry or Physics or AP Biology or AP Chemistry or Other science elective	Physics or AP Physics B or C or AP Biology or AP Chemistry or Other science elective
Introduction to Graphics	Graphics 1	Graphics 2	Graphics 3
Prototype Design/ Personal Financial Literacy	Graphics 1	Graphics 2	Graphics 3
Physical Education/ Health	Physical Education/ Health	Physical Education/ Health	Physical Education/ Health
World Language	World Language	World Language	World Language or Elective of Choice

Introduction to Graphic Communications (6661) - This beginning class will introduce Incoming Graphic Majors to some of the basic programs and procedures used within the Graphic Communications Major. A major emphasis will be on the Design Principles along with some basic computer applications will be covered. The students will learn the basics of PageMaker, Microsoft Word, and Microsoft PowerPoint. The students will have to become proficient in these areas along with creating a professional looking portfolio before entering level 1 of the major. This class will be used as a full year audition for the major. CR 5, YO 9 for Freshmen admitted to Graphic Communications Program Only - Teacher recommendation and approval for non-Freshmen

Graphic Communications 1 (6662) - This level 1 class will explain the student's knowledge gained in the introduction class. They will take the computer applications learned in the previous class and take it to the next level. Digital Photography and Photoshop use will be introduced in this level. In-depth, hands-on experiences will reinforce the learning process. The students in Graphic Communications 1 will also learn offset printing along with the pre-press procedures used to run printed materials. A professional portfolio will also be needed to continue on to the next level. CR 10, YO 10,11,12, PRE Demonstrated proficiency in Introduction to Graphic Communications class and a portfolio

Graphic Communications 2 (6663) - The level 2 class provides the students with advance training in electronic imaging and offset printing along with computer software. The students will get proficient in Digital Photography and Photoshop use. Introduction to Stop Animation movies and Claymation will also be studied and put into use. A portfolio will also be completed in order to highlight the student's work. CR 10, YO 11,12, Suggested PRE 80 or above in Graphic Communications 1 and a portfolio

Graphic Communications 3 (6664) - This final level of Graphic Communications will give the students training in video and sound editing. These students will also learn the basic knowledge needed to run a TV studio and create professional looking videos. They will also videotape school productions, which will then be edited through software. CR 10, YO 12, Suggested PRE 85 or above in Graphic Communications 2 and a portfolio.

3.7 ACADEMY OF FINANCE - ACADEMIC PATHWAY

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
English 9 CP/H	English 10 CP/H	English 11 CP/H/AP	English 12 CP/H/AP
Global Studies CP/H	US History 1 CP/H	U.S. History II CP/H/AP	VPA Elective
Algebra I or Geometry or Honors Algebra II	Geometry or Honors Algebra II or Honors Pre-Calculus	Algebra II or AP Calculus AB or AP Statistics or Pre-Calculus or Other math Elective	AP Calculus AB or AP Calculus BC or AP Statistics or Calculus or Other math Elective
Exploratory Science or Biology	Biology or Chemistry or Honors Chemistry	Chemistry or Physics or AP Biology or AP Chemistry or Other science elective	Physics or AP Physics B or C or AP Biology or AP Chemistry or Other science elective
AOF Principles of Financial Success	Accounting 1	Business Economics	AOF Financial Planning, Investment and Insurance
Ethics in Business and Digital Literacy	Marketing/ Entrepreneurship	Business in a Global Economy/ Applied Finance or Honors Accounting 2	Honors Accounting 2 or Business Management and Managerial Operations or AP Economics
Physical Education/ Health	Physical Education/ Health	Physical Education/ Health	Physical Education/ Health
World Language	World Language	World Language	World Language or Elective of Choice

ENRICHMENT

Summer Internship - Work Experience
(Summer between Junior/Senior year)

- Academy students will learn how the financial services industry really works while developing rewarding career paths.
- Academy students improve analytical, technology and communication skills.
- Classroom instruction is integrated with workplace experience.
- Area professionals contribute to the academy's education process by serving on the advisory board and offering summer internships
- Internships allow for job shadowing, guest speakers, and hosting of field trips to the business.

Accounting 1 (6610) - This is a required course for Academy of Finance sophomores; however, college bound students who plan any business major will find this course to be extremely valuable as a basis for required courses in college. Students engage in a comprehensive study of accounting utilizing the double-entry system for recording, analyzing, and interpreting business operations from a financial standpoint. Students gain a background in business operations and procedures with related business terminology. Both a sole proprietorship service business and a partnership merchandising business are examined. An accounting simulation is the focus of the last marking period reinforcing Generally Accepted Accounting Practices. CR 5, YO 10,11,12. (Required for all AOF Grade 10 students; elective for Grades 10, 11, 12 students)

AOF Principles of Financial Success (6604) - This full year course is designed to give students an overview of the world of finance. Students will develop a comprehensive understanding of financial concepts such as: financial intermediaries,

wealth, personal budgeting, banking, credit and debt management, investment banking, different forms of business ownership, and ethics in business. While learning about these important financial concepts, students will comprehend the importance of preparation, study habits, proper interpersonal communication skills, and developing a career plan; which can be used for the remainder of their professional lives. CR 5; YO 9; Required for all Grade 9 AOF students

AP Economics (6637) - This course is designed to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system and the economic systems as a whole. Macro and Micro Economic principles will be discussed. CR 5, YO 11,12

Applied Finance (6623) - Applied Finance delves into the financial concepts introduced in Introduction to Finance. Students learn to identify the legal forms of business organization and continue to develop an understanding of profit. They learn about various financial analysis strategies and the methods by which businesses raise capital. Students also have the chance to explore, in depth, topics of high interest in the field of finance, and explore the types of careers that exist in finance today. CR 2.5, YO 11, Required grade 11 AOF students. (Spring semester)

Business Economics (6620) - Business Economics introduces students to the key concepts of microeconomics and macroeconomics. This course discusses the American economy and the allocation of the factors that influence the business firm and its products. Additionally, this course analyzes the role of consumers, their behavior and choices, as well as, the role of producers and the role of production and cost within the market setting, through the theory of supply and demand and the circular flow of the economy. Students are introduced to forms of competition and the relationship of labor and business, as well as, a broad overview of the global economy. Students will understand the indicators used to measure the success of an economy, such as CPI, GDP, unemployment and supply and demand. In addition, they will be introduced to the role of government and fiscal policy to analyze its potential impact on the economy. CR 5, YO 11, 12 Required grade 11 for AOF students or elective for all students 11 & 12 grades

Business in the Global Economy (6622) -This course provides students with an understanding of how and why businesses choose to expand their operations into other countries. This course exposes students to the unique challenges facing firms doing business internationally. Building on concepts introduced in Principles of Finance, this course broadens students' understanding of how businesses operate, grow, and thrive in our ever-changing world. CR 2.5, YO 11,12 Required course for grade 11 AOF students. PRE Principles of Financial Success

Business Management and Managerial Operations (6634) - This course provides students with practical experience to apply their business skills. The International Business Practice Firm (IBPF) is a company set up by students with the assistance of a teacher/facilitator. In an authentic office setting, linked by technology, the student/employee engages in simulated business transactions with other firms, both here and abroad. The program allows students to experience all facets of being an employee in a firm, including human resources, accounting, product development, production, distribution, marketing, and sales. In addition, the simulation enables students to understand how employees, workgroup teams and departments interact and work together for the common goal of the company. Students will improve their ability to handle information, make decisions, set goals and objectives, and to evaluate those goals. Students will learn about the use of technology in a business, including the use of the Internet for global transactions and communications. CR 5, YO 12 PRE AOF Senior or a previous business course and/or approved by instructor (invitation only)

Business Software Solutions (6601) - This full year class, using various application-based exercises, introduces students to various computer programs that are necessary for students and professionals to master. Over the course of the year, students will comprehend the importance and uses for Microsoft Office Suite. Using Word, students will create MLA style reports, create cover letters and resumes, and draw tables. In Excel, students will design spreadsheets to be used in various occupations in the future. Publisher will enable students to create brochures, letterheads, flyers, and other documents related to various industries. PowerPoint encourages students to create and present projects that can be used both in the classroom and in the real world, individually or in a group. CR 2.5; YO 9, 10

Entrepreneurship (6624) - This course is designed to give the student a basic guide to the process of getting into and managing his or her own business. The course focuses on the steps necessary to start a business, including the legal forms of business ownership, market research and advertising, hiring employees, and a variety of start-up activities. Students concentrate on the preparation of a business plan. CR 2.5, YO 10, 11, 12 (Fall Semester) Required grade 10 for AOF students

Ethics in Business (6625) - This course introduces the importance of ethics in business. Students focus on the significance of ethics to stakeholders; examine who bears responsibility for monitoring ethics; and explore ethical situations common in organizations. Students examine how ethics affects various business disciplines and consider the impact of organizational culture. Students also explore ethics as social responsibility, the evolution of ethics in international business, and how the

free market and ethics can coexist. CR 2.5, YO 9, 10,11,12 (Spring Semester) Required grade 9 for AOF students

Financial Planning, Investment and Insurance (6630) - Financial Planning provides students with an overview of the job of a financial planner. Students learn to consider how all aspects of financial planning might affect a potential client, and learn about the importance of financial planning in helping people reach their life goals. This course includes lessons on saving, borrowing, credit, and all types of insurance, and covers various types of investments. Students also examine careers in financial planning. CR 5, YO 11,12 Required grade 12 for AOF students

Honors Accounting 2 (6611) - Reviews the basic theory introduced in Accounting 1 and moves on to payroll, special journals, adjustments, depreciation, inventory, notes payable and receivable, uncollectible accounts, interest, accruals and advanced financial statements. Corporate accounting is emphasized through the inclusion of a project researching the history and backgrounds of major corporations and analyzing their Annual Reports. CR 5, YO 11,12, Suggested PRE Accounting 1 with an average of 80 or higher

Marketing (6631) - This course is an introduction to marketing where the students are responsible for the establishment of the marketing mix for their fictitious product. The students will conduct research and analyze data, as it relates to planning, analysis, implementation, and control functions of their marketing mix and marketing plan, in order to achieve their desired marketing goals. The course introduces the students to market segmentation and targeting of a potential market through demographic and psychographic analysis to create a consumer profile. The students will demonstrate how the profile is used to assist in the creation of the varied components of the marketing function, such as product packaging, pricing, or distribution. The course concludes with the students creating a promotional plan to reach their target audience for a specific product. CR 2.5, YO 10, 11, 12 (Fall semester) Required grade 10 AOF students

Personal Financial Literacy (6603) - This semester course is designed to assist students in understanding the basics of personal finance. Through application based lessons, students develop financial literacy as they learn about the function of finance in society. Topics that are discussed during this class include: finance intermediaries, wealth, personal budgeting, banking, credit and debit management, investment banking, different forms of business ownership and ethics in business. CR 2.5; YO 9, 10, 11 This class fulfills the 9.2 Financial Literacy requirements, by the State of New Jersey for students entering high school on or after September 1, 2010.

Strategies for Success (6602) - This semester course helps to orient students to the world of work and school. It addresses the needs of the students to develop good work and study habits, helps students to prepare portfolios, learn about school resources, develop career plans, start preparing for college and develop solid interpersonal skills. CR 2.5, YO 9,10

Web Page Design 1 (6627) - This semester course will focus on the three basic design concepts for a Web site: information design (how to structure information); programming design (getting the site to function), and visual design (what the site will look like). Students will develop a logical approach to web design fundamentals that will capture and inform an audience. Students will be exposed to proper web site design and management techniques suitable for coursework, professional purposes and personal use. Students will be able to design their web pages using Adobe Dreamweaver CS3 software. CR 2.5, YO 10, 11, 12, PRE Computer Applications

Web Design 2 (6628) - Students will learn the most important topics of HTML including creating multimedia Web pages with hypertext links, tables, frames, forms and cascading style sheets. Students will learn the basics of XML including creating XML documents and binding data. Students will be able to add Photoshop images and animations in Adobe Dreamweaver CS3. Students will design and develop wireless web pages using XHTML and WML. CR 2.5, YO 10,11,12, PRE Web Page Design 1

3.8 ACADEMY OF MATH AND SCIENCE - ACADEMIC PATHWAYS

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
English 9 CP/H	English 10 CP/H	English 11 CP/H/AP	English 12 CP/H/AP
Global Studies CP/H	US History 1 CP/H	U.S. History II CP/H/AP	Economics or Elective of Choice
Algebra I or Geometry or Honors Algebra II	Geometry or Honors Algebra II or Honors Pre-Calculus	Algebra II or AP Calculus AB or AP Statistics or Pre-Calculus or Other math Elective	AP Calculus AB or AP Calculus BC or AP Statistics or Calculus or Other math Elective
Exploratory Science or Biology 2.5 credits Family & Consumer Life Sciences Elective /Personal Financial Literacy	Biology or Chemistry or Honors Chemistry Practical Applications of Math and Science	Chemistry or Physics or AP Biology or AP Chemistry or Other science elective Academy Elective	Physics or AP Physics B or C or AP Biology or AP Chemistry or Other science elective Academy Elective
World Language	World Language	World Language	Elective of Choice
Physical Education/ Health	Physical Education/ Health	Physical Education/ Health	Physical Education/ Health
Fine Arts Elective	Elective of Choice	Elective of Choice	Elective of Choice

Bold Denotes Academy Requirement

3.9 ACADEMY OF HUMANITIES AND SOCIAL SCIENCES - ACADEMIC PATHWAYS

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
English 9 CP/H	English 10 CP/H	English 11 CP/H/AP	English 12 CP/H/AP
Global Studies CP/H	US History 1 CP/H	U.S. History II CP/H/AP	Social Studies Academy Requirement
Algebra I or Geometry or Honors Algebra II	Geometry or Honors Algebra II or Honors Pre-Calculus	Algebra II or AP Calculus AB or AP Statistics or Pre-Calculus	General Elective
Exploratory Science Or Biology	Biology or Honors Chemistry or Chemistry	Chemistry or Physics or AP Biology or AP Chemistry or Other science elective	General Elective
2.5 credits Family & Consumer Life Sciences Elective/ Personal Financial Literacy	Philosophy/Forensic Social Science	Academy Elective	Academy Elective
World Language	World Language	World Language	General Elective
Physical Education/ Health	Physical Education/ Health	Physical Education/ Health	Physical Education/ Health
Fine Arts Elective	General Elective	General Elective	General Elective

Bold Denotes Academy Requirement

3.10 ACADEMY OF INTERNATIONAL AND CULTURAL STUDIES: CULTURAL STUDIES STRAND

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
English 9 CP/H	English 10 CP/H	English 11 CP/H/AP	English 12 CP/H/AP
Global Studies CP/H	US History 1 CP/H	U.S. History II CP/H/AP	Academy Elective
Algebra I or Geometry or Honors Algebra II	Geometry or Algebra II or Pre-Calculus	Algebra II or AP Calculus AB or AP Statistics or Pre-Calculus	General or Academy Elective
Exploratory Science Or Biology	Biology or Honors Chemistry or Chemistry	Chemistry or Physics or AP Biology or AP Chemistry or Other science elective	General or Academy Elective
2.5 credits Family & Consumer Life Sciences Elective/ Personal Financial Literacy	AP Human Geogra- phy Academy Require- ment	Academy Elective	Academy Elective
World Language	World Language	World Language	World Language or Academy Elective
Physical Education/ Health	Physical Education/ Health	Physical Education/ Health	Physical Education/ Health
Fine Arts Elective	General Elective	General Elective	General Elective

Bold Denotes Academy Requirement

3.11 ACADEMY OF INTERNATIONAL AND CULTURAL STUDIES: LANGUAGE STRAND

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
English 9 CP/H	English 10 CP/H	English 11 CP/H/AP	English 12 CP/H/AP
Global Studies CP/H	US History 1 CP/H	U.S. History II CP/H/AP	Academy Elective
Algebra I or Geometry or Honors Algebra II	Geometry or Algebra II or Pre-Calculus	Algebra II or AP Calculus AB or AP Statistics or Pre-Calculus	General or Academy Elective
Exploratory Science Or Biology	Biology or Honors Chemistry or Chemistry	Chemistry or Physics or AP Biology or AP Chemistry or Other science elective	General or Academy Elective
2.5 credits Family & Consumer Life Sciences Elective/ Personal Financial Literacy	AP Human Geogra- phy Academy Require- ment	Academy Elective	Academy Elective
World Language	World Language	World Language	World Language
Physical Education/ Health	Physical Education/ Health	Physical Education/ Health	Physical Education/ Health
Fine Arts Elective	General Elective	General Elective	General Elective

Bold Denotes Academy Requirement

3.12 ACADEMY OF INTERNATIONAL AND CULTURAL STUDIES: INTERNATIONAL BACCALAUREATE STRAND

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
English 9 CP/H	English 10 CP/H	IB English	IB English
Global Studies CP/H	US History 1 CP/H	IB History of the Americas	IB History of the Americas
Algebra I or Geometry or Honors Algebra II	Geometry or Honors Algebra II or Honors Pre-Calculus	Pre-Calculus or Honors Pre-Calculus or IB Math	IB Math
Biology	Honors Chemistry or Chemistry	IB Science	IB Science/AP Science
2.5 credits Family & Consumer Life Sciences Elective/ Personal Financial Literacy	AP Human Geography Academy Requirement	IB Elective	Theory of Knowledge
World Language	World Language	World Language IB	World Language IB
Physical Education/Health	Physical Education/Health	Physical Education/Health	Physical Education/Health
Fine Arts Elective	General or Academy Elective	General or Academy Elective	IB Elective

Bold Denotes Academy Requirement

3.13 ACADEMY OF SPORTS MEDICINE AND MANAGEMENT SPORTS MEDICINE & MEDICAL CAREERS STRANDS

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
English 9 CP/H	English 10 CP/H	English 11 CP/H/AP	English 12 CP/H/AP
Global Studies CP/H Algebra I or Geometry or Honors Algebra II	US History 1 CP/H Geometry or Algebra II or Pre-Calculus	U.S. History II CP/H/AP Algebra II or AP Calculus AB or AP Statistics or Pre-Calculus	General Elective Pre-Calculus AP Calculus AB AP Calculus BC
Biology or Exploratory Science	Honors Chemistry or Chemistry or Biology	Physics or AP Biology or AP Chemistry or Anatomy & Physiology or Chemistry	Physics or AP Biology or AP Chemistry or Anatomy & Physiology
2.5 credits Family & Consumer Life Sciences Elective/ Personal Financial Literacy	General Elective	General Elective	General Elective
World Language	World Language	World Language	General Elective
Physical Education/Health	Driver's ED/Phys ED	Physical Education/Health	Physical Education/Health
Fine Arts Elective	Sports and Entertainment Marketing/ Sports Medicine	Sports Medicine 2	Foundations of Exercise Science and Nutrition in Exercise, Wellness and Sports or Academy Elective

Bold Denotes Academy Requirement

3.14 ACADEMY OF SPORTS MEDICINE AND MANAGEMENT: SPORTS MANAGEMENT STRANDS

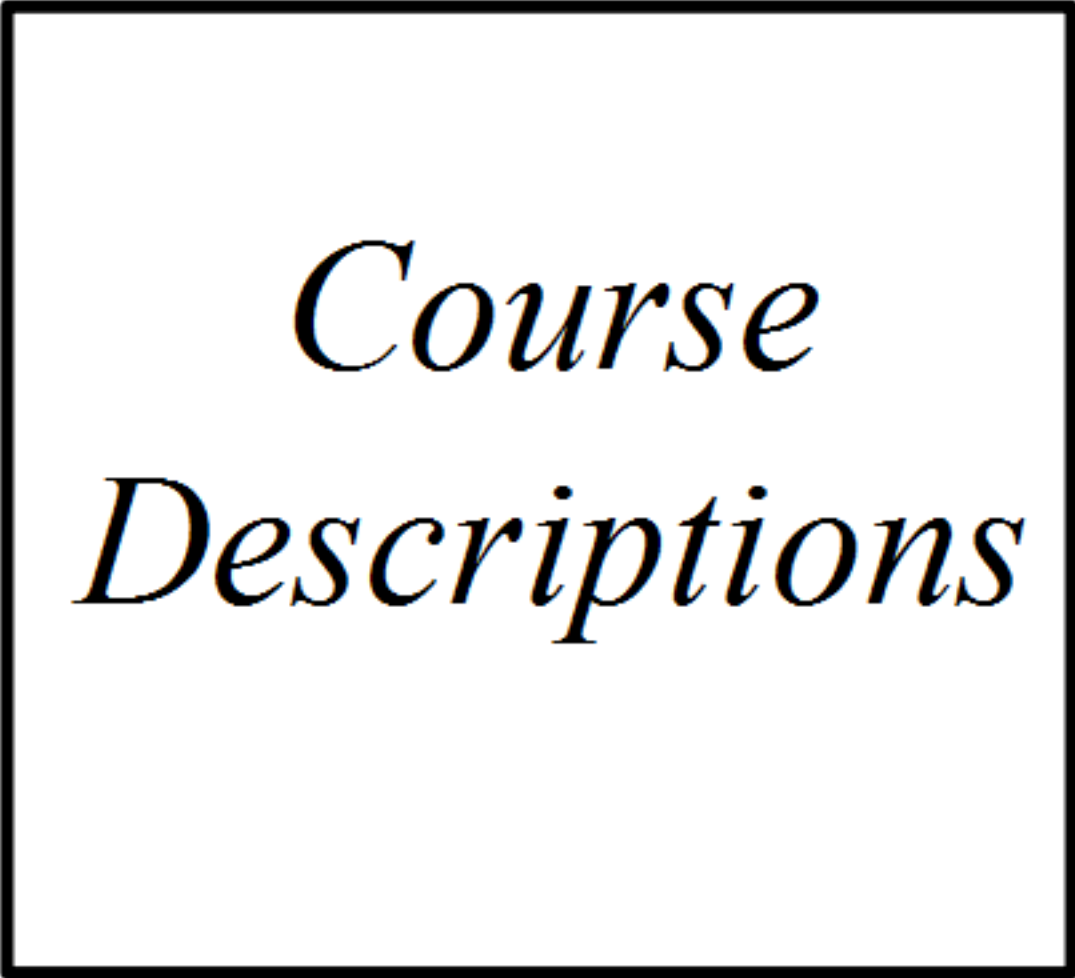
Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
English 9 CP/H	English 10 CP/H	English 11 CP/H/AP	English 12 CP/H/AP
Global Studies CP/H Algebra I or Geometry or Honors Algebra II	US History 1 CP/H Geometry or Algebra II or Pre-Calculus	U.S. History II CP/H/AP Algebra II or AP Calculus AB or AP Statistics or Pre-Calculus	General Elective Pre-Calculus AP Calculus AB AP Calculus BC
Biology or Exploratory Science	Honors Chemistry or Chemistry or Biology	Physics or AP Biology or AP Chemistry or Anatomy & Physiol- ogy or Chemistry	Physics or AP Biology or AP Chemistry or Anatomy & Physiol- ogy
2.5 credits Family & Consumer Life Sciences Elective/ Personal Financial Literacy	General Elective	General Elective	General Elective
World Language	World Language	World Language	General Elective
Physical Education/ Health	Driver's ED/Phys ED	Physical Education/ Health	Physical Education/ Health
Fine Arts Elective	Sports and Entertainment Marketing/ Sports Medicine	Ethics in Business and 1/2 year Academy Elective or Sports & Hospitality Marketing Management (8018)	Intro to Sports Administration or Academy Elective

Bold Denotes Academy Requirement

3.15 VISUAL AND PERFORMING ARTS: INTERDISCIPLINARY ARTS ACADEMIC PROGRAM

Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
English 9 CP/H	English 10 CP/H	English 11 CP/H/AP	English 12 CP/H/AP
Global Studies CP/H Algebra I or Geometry or Honors Algebra II	US History 1 CP/H Geometry or Algebra II or Pre-Calculus	U.S. History II CP/H/AP Algebra II or AP Calculus AB or AP Statistics or Pre-Calculus	General Elective Pre-Calculus AP Calculus AB AP Calculus BC
Biology or Exploratory Science	Honors Chemistry or Chemistry or Biology	Physics or AP Biology or AP Chemistry or Anatomy & Physiology or Chemistry	Physics or AP Biology or AP Chemistry or Anatomy & Physiology
2.5 credits Family & Consumer Life Sciences Elective/ Personal Financial Literacy	Fine Arts Appreciation	Academy Elective	Academy Elective
World Language	World Language	World Language	General Elective
Physical Education/ Health	Driver's ED/Phys ED	Physical Education/ Health	Physical Education/ Health
Fine Arts Elective	General Elective	General Elective	General Elective

Bold Denotes Academy Requirement



*Course
Descriptions*

3.16 ENGLISH

English 1 CP (1101) - This course uses a problem-based learning approach to stress those literary skills essential to success: reading, writing, speaking, listening and viewing. Study skills, vocabulary skills and critical thinking are infused into the curriculum to help students make the transition from elementary to secondary school. Literary selections are organized by genre. Students keep a writing folder, which is a record of their major composition work. Embedded in the program is an "honors option" which may reward students for meeting established criteria. Students who complete work at this level may be eligible for honors credit and a five point honors weight on their final averages. Students in English 1 CP interested in entering Honors English 2 must complete these specific requirements as a prerequisite for application to Honors English 2. CR 5, YO 9

Honors English 2 (1108) - This is a course for students whose achievement is highest at the grade level. Literature is organized by genre and includes works which reflect major figures in America's diverse cultural and literary heritage. This literature strengthens students' critical reading and writing skills. In addition, students work on a number of independent projects. CR 5, YO 10, PRE English 1 CP, Completion of English 1 honors option, grade in English 1 (1101) of 90 or better, teacher recommendation, timed writing sample

English 2 CP (1104) - This course uses a problem-based learning approach to explore the history and development of American literature through a variety of genres: the novel, drama, non-fiction, short story and poetry. The course spans early American to 21st Century literature. Composition process and revision, SAT/HSPA preparation and contextual vocabulary skills and methods of debate are also incorporated. CR 5, YO 10, PRE English 1

English 2 Skills (1107) - This is a course intended for students needing special attention in language arts. Course material includes a sampling of American literature studied in the English 2 CP class. Emphasis is placed on vocabulary, main idea, and drawing inferences. The writing process involves sentence structure, paragraph development, and informal and format essay and letter writing. Consideration is given to preparation for the HSPA exam. CR 5, YO 10, PRE English 1

ELL English 2 (1142) - This course will focus on the basic elements of the short story, novel, and dramatic plays. Students will become familiar with plot development, themes, vocabulary skills and symbolism. Students produce authentic writing pieces that will become part of an ongoing writing portfolio. CR 5, YO 10

AP English 1 Language and Composition (1114) - This is a course for students whose achievement is highest at the grade level. This course focuses primarily on critical analysis of rhetorical strategies found in non-fiction European and American literature. Some fiction from the English 3 CP curriculum is included in coursework. The course is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and to become skilled writers who can compose for a variety of purposes. Emphasis is placed on the emerging character and distinctive qualities of European and American thought through sermons, journals, essays, short stories, drama and the novel. Research papers are required. This course prepares students to take the AP Language and Composition exam and provides the foundation for AP English 2 Literature and Composition. Students who receive a 3 or better on the AP exam may be eligible for college credits. CR 5, YO 11,12 Suggested PRE Honors English 2 or 90 or better in English 2 CP, teacher recommendation and writing portfolio and/or entrance exam.

IB English HL (1121) - The first year of the two-year curriculum focuses on close reading of works, combined with a greater awareness of texts' global context. Students begin the year analyzing summer texts and additional 20th century readings; study culminates in an Individual Oral Presentation of 10-15 minutes based on one of these works. Students then explore four works in translation, focusing on how each author uses language to enhance meaning. By the end of the year, students will have created a four-stage written analysis of one of the translated works. CR 5, YO 11, PRE English 2

English 3 CP (1109) - This course focuses on a survey of the rich heritage of English literature emphasizing the chronological development of the English language as revealed in celebrated literary works from Europe and around the globe. Students study drama, short stories, poetry and novels. Course requirements include a research paper. HSPA and SAT preparation includes intensive vocabulary study and practice exams. CR 5, YO 11, PRE English 2

English 3 (1111) - This course develops reading, writing, speaking, listening, vocabulary and viewing skills through the essential works from the English 3 CP curriculum. Emphasis is placed on intensive HSPA preparation prior to the spring test. Employment awareness and readiness are infused into the curriculum to prepare students for the 21st century. A research paper is required. CR 5, YO 11, PRE English 2

ELL English 3 (1144) - This course will focus on understanding literary elements of a novel. Basic ideas include character development, plot, theme and setting, combined with short stories from literary mediums such as "Historias de Mexico"

and Scholastic "Scope" magazine. Emphasis is placed on HSPA preparation and vocabulary and writing skills development. Students will develop artifacts for individual portfolios. Assessments include essays, short responses, projects and group and individual presentations. CR 5, YO 11

AP English 2 Literature and Composition (1120) - With an intense focus on reading, writing, and literary analysis, Advanced Placement English Literature and Composition develops students' critical thinking skills and encourages their academic independence. Conceived as a college-level introduction to literature course, AP English covers a complete range of literature and demands much of each student. This course requires close reading of texts, and students will practice analytical and critical writing to heighten their critical and rhetorical abilities. Students will complete numerous timed writings and review previously administered exams in preparation for the AP Lit and Comp exam in May. Students who receive a 3 or better on the AP exam may be eligible for college credit. Two research papers are required in this class. It is recommended that students who enter AP English Lit from AP English Language receive a score of 3 or better on the AP Language and Composition exam. CR 5, YO 12, Suggested PRE AP English 1 (85 average or higher)

IB English HL 2 (1122) - The second year of the IB English curriculum involves two parts. First, the class conducts detailed study of several works of various genres. Students are assessed through an extensive oral evaluation which includes a formal oral commentary and a student-teacher discussion. Second, the program focuses on texts of a specific literary genre; students complete two year-end external written exams based on at least two works studied. CR 5, YO 12, PRE IB English HL

Honors English 4 Humanities (1119) - This course is a study of the inter-relatedness of literature, painting, sculpture and music. Students study the key themes and images which evolve from the time of the Ancient Greeks, through the Middle Ages and Renaissance, Baroque, the Romantics and Victorians, into the 20th century. This course expands the understanding of what it means to be a human in the modern world. Heavy emphasis is placed on reading and writing at an elevated level in preparation for stringent demands in college. The successful completion of a research paper is required. CR 5, YO 12, Suggested PRE Honors English 3 or 90 or better in English 3 CP, Teacher Recommendation and writing sample

English 4 CP Humanities (1115) - This course is a study of the inter-relatedness of literature, painting, sculpture and music. Students study the key themes and images which evolve from the time of the Ancient Greeks, through the Middle Ages and Renaissance, Baroque, the Romantics and Victorians, into the 20th century. This course expands the understanding of what it means to be a human in the modern world. The successful completion of a research paper is required. CR 5, YO 12, PRE English 3

English 4 (1117) - This course focuses on contemporary literature and covers the essential selections from English 4 CP. Students read dramas and novels which reflect contemporary thoughts and attitudes. The composition program emphasizes expository writing, including research skills, and prepares students for higher education. The successful completion of a research paper on a contemporary issue is required. CR 5, YO 12, PRE English 3

ELL English 4 (1146) - This course continues the focus on the literary elements of the novel. Students will also learn basic elements of writing a research paper. HSPA skill development and writing techniques are also a focal point of this class. Group presentations and projects are included in assessment techniques. CR 5, YO 12

Creative Writing 1 (1150) - Fall - This course follows the premise that to write well, one must know good writing. Creative Writing 1 requires students to study major works of European and American prose, poetry, and drama in an effort to assess each writer's style and creative strategy. Students then incorporate what they learn into their own original works. CR 2.5, YO 9,10,11,12

Creative Writing 2 (1151) - Spring - This course is a workshop class for those students who enjoyed Creative Writing 1 and who wish to continue writing poetry, short stories and plays. Students will become more sensitive to themselves and to life through the process of writing. They will learn and become familiar with literary techniques and practice their use, and gain critical insight into what makes good writing by reading and evaluating pieces written for the class. CR 2.5, YO 9,10,11,12

Film Studies (1152) - This course will examine the history of film, film terminology and the genre of film. Students will view films and learn about filming techniques, camera angles and the evolution of the film industry. Students will be expected to write film reviews and participate in group projects. CR 2.5, YO 11,12

Graphic Novels and Visual Literacy (1155) - In this course, students will explore the connection between the visual and literary arts by learning about the long history behind today's graphic novels from around the world. Students will learn how these texts are inherently interactive, requiring the reader to become a participant in the narrative process. They will also investigate how graphic novels must carefully balance between narratives told through images and words, and how line, color, composition, visual pacing and tone contribute a text's meaning. Students should have an interest in litera-

ture or the visual arts, but specific prior knowledge of graphic novels is not required. Class activities will include reading graphic novels and graphic-narrative theory, discussion of various texts, and creative and analytical writing. CR 2.5, YO 11,12

HSPA Language Arts 12 (1131) - This course is required for twelfth grade students who failed the HSPA and need reading/writing skill remediation for the purpose of passing the HSPA. CR 5, YO 11

Introduction of Philosophy: Answering the Questions (2200) - The keystone course in the Academy of Humanities and Social Sciences is an examination of the "big questions" geared toward helping students learn to articulate their worldview and take a stand on the meaning of life. Through current topics, it introduces students to the overarching issues explored by philosophers and lets them explore some of the more famous thinkers while critiquing their positions. We'll do writing, reading and discussion of works, but a lot of the class will be the students directly responding and working on their own positions. Completion of this course AND Forensic Social Science will satisfy 2.5 credits toward the 21st Century Life and Careers requirement. CR 2.5, YO 10, PRE Acceptance into the Academy of Humanities and Social Sciences.

Production Journalism (1153) - This course is a year-long program in which students learn journalistic writing and computer composition skills. Students will become familiar with all aspects of print and electronic news media. Much of the student work may be submitted to the school newspaper. Participants should be interested in working on the school newspaper, improving their writing skills and learning about, and practicing the arts of, interviewing, investigating, and storytelling. CR 5, YO 10,11,12

Public Speaking (1154) - This is a basic course for the student with little knowledge of, but a curiosity about, the skills necessary for public speaking. The course is designed to introduce the student to the basic aspects of public speaking by simulating numerous public speaking scenarios. The course involves both written and oral critiques of performances. Preparation for the performance assignments is the major homework component. CR 2.5, YO 10,11,12

Sports and Literature (1156) - This course is made for the sports buff who also enjoys reading. This course will expose students to depiction of sports in different literary genres. Students will examine novels, short stories, films, articles, and speeches from many famous authors, journalists and athletes throughout history. The daily newspaper will supplement outside reading and viewing. All materials will be examined for literary elements and provide models for students' experiments with this style of writing. CR 2.5, YO 10,11,12

3.17 ENGLISH LANGUAGE LEARNERS

Red Bank Regional offers a high intensity ELL program designed to improve the skills of English Language Learners. High quality instruction extends throughout the program, and most courses are taught with the assistance of a bilingual paraprofessional. The department features a cross-content teaching team, and assessments are done using a portfolio approach. Curriculum is both culturally relevant and reflective of the contemporary multicultural adolescent experience. Tutoring is available in English and Spanish for all ELL students during lunch hours and after school. Parent involvement and student advocacy are also integral to the program. Seniors are eligible for the "Puente al Futuro" program, or "Bridge to the Future," a "Fast Start" college program at Brookdale Community College. This program offers ELL seniors the opportunity to take six college credits in their senior year of high school. Grants fund this program, and include book costs and transportation. Students successful in the program may then apply for a full scholarship upon graduation from Red Bank Regional and continue their college education at Brookdale Community College.

ELL Foundations of Algebra (1211) - This course is designed to aid students in making the transition from elementary mathematics to algebra by reinforcing and building upon computational skills using whole numbers, fractions, decimals, and percents. Included in the program are units on number theory, integers, solving simple algebraic expressions, plotting ordered pairs, graphing lines, ratio and proportions, and informal geometry. CR 5, YO 9,10

ELL Algebra 1 (3380) - This course provides instruction for basic operations with real numbers, exponents and polynomials. Successful completion of the course includes the ability to handle: algebraic operations, working with signed numbers, solving linear and quadratic equations, systems of equations and inequalities, factoring and simplifying rational expressions. Real life applications are integrated within units of study to emphasize the development of problem solving skills. CR 5, YO 9,10,11

ELL Algebra 2 (3384) - This course is a continuation of Algebra 1, including graphing of linear and quadratic functions, logarithms, irrational and imaginary numbers and matrices. CR 5, YO 10,11 Algebra 1, Geometry and teacher recommendation.

ELL Geometry (3382) - This course provides a foundation of geometric concepts and skills that include parallel and perpendicular lines, triangle relationships, quadrilaterals, similarity, polygons and area. Skills development within meaningful contexts shows students how geometry connects to real life. High School Proficiency Assessment and SAT preparation is integrated throughout the course. Cr 5, YO 10,11,12, PRE ELL Algebra 1

ELL HSPA Math (1209) - This course is required for twelfth grade students who failed the HSPA. Students will develop the necessary mathematical and problem solving skills to obtain a proficient score on the HSPA. CR 5, YO 12, PRE Partial Proficiency on the HSPA

ELL HSPA Language Arts 12 (1208) - This course is required for twelfth grade students who failed the HSPA and need reading/writing skill remediation for the purpose of passing the HSPA. Students will develop writing skills in both English and Spanish. CR 5, YO 12

ELL Exploratory Science (4420) - This laboratory course is designed to meet the needs of students as outlined in the New Jersey Core Curriculum Content Science Standards. The material will cover the processes that affect the earth, basic chemistry and chemical reactions, and the physics of force and motion. General topics of study include: scientific processes, science and society, mathematical applications, nature and process of technology, chemistry, physics, earth science, astronomy and space science, and environmental studies. Lab experiences and demonstrations are integrated throughout the course. CR 5, YO 9

ELL Biology (4421) - This course enables students to learn basic science skills such as using the scientific method to create experiments and using a microscope. Students will also gain an understanding of cells, classification, biodiversity and human biology. Lab experiences and demonstrations are integrated throughout the course. CR 5, YO 9,10,11,12

ELL Chemistry (4423) - This course will introduce students to topics such as the periodic table, chemical bonding, and types of chemical reactions. Lab experiences and demonstrations are integrated throughout the course. Special attention will also be given to the economic and environmental effects of chemical progress as well as the practical applications of chemistry. CR 5, YO 11,12, PRE ELL Biology

ELL Physics (4425) - This course introduces the traditional topics found in physics: heat, motion, light, kinetic theory, wave motion, gravitation, electromagnetism, and optics. Lab experiences and demonstrations are integrated throughout the

course. CR 6, YO 11,12, PRE Biology and Chemistry.

ELL Global Studies (2240) - This course is the first of three history offerings for ELL students. This class is an exploration of the histories and cultures of the peoples of Europe, Asia, Africa and Latin America from ancient times to modern day. An emphasis is placed on studying the effects of intercultural exchanges among the people of these many different nations. CR 5, YO 9,10,11,12

ELL American Studies 1 (2250) - This course is the second in the series, introducing the concepts of exploration. The concepts of early American government and how it relates to the development of the constitution, and the development of the colonies. CR 5, YO 10,11,12

ELL American Studies 2 (2251) - This course focuses on the growth and development of the United States from the Industrial Revolution and the late 1800's through the Civil Rights and Vietnam War Era through the 1960's. Activities will reinforce thematic and chronological coverage of events in US history. The course will be taught using portfolio assessment methods and course proficiencies will be demonstrated through group work and completion of projects. CR 5, YO 10,11,12

ELL Career Readiness (1207) - This full year course is designed to provide ninth-grade English Language Learners the skills and tools necessary for academic success both at the high school level and future careers. The course will enable students to utilize information technology and refine cross-content problem solving skills. The course will also help students establish career awareness and explore a wide array of professions. Finally, the course will allow students to identify their career interests and aptitudes in order to develop an educational plan which supports their career goals. CR 5, YO 9

Students are placed in ELL classes according to their scores on standardized tests, classroom performance, and portfolio assessment.

ELL 1 (1200) - Using a four-skills (reading, writing, listening, speaking) approach, students gain a solid foundation in essential skills and strategies through authentic literature and informational readings. This course is designed for port of entry level students as a means of building academic skills to be further developed in subsequent English Language Learner courses. The course focuses on the following:

- Reading Practice that includes Content Area Readings in social studies, science, math, literature, and history.
- Functional Language.
- Basic grammatical concepts.
- Vocabulary development.
- Learning strategies.
- Cultural aspects of formal and informal settings in the U.S.

These classes meet for a full block both A & B days. CR 10, YO 9,10,11,12

ELL 2 (1201) - In this course students are introduced to academic content-area vocabulary. Students develop proficiency in using their understanding of grammatical structures, cultural knowledge and language arts skills in context. Students read a wide variety of thematically linked selections, including literature and informational texts. Each selection helps students develop their understanding of the academic language necessary for school as well as the viewing, listening, speaking, and writing skills they need to begin to transition into the mainstream curriculum. These classes meet for a full block both A & B days. CR 10, YO 9,10,11,12

ELL 3 (1203) - The third in the series, this class is for more advanced ELL students. This class refines student writing skills, development of grammar and literary elements. CR 5, YO 9,10,11,12

ELL 4 (1204) - This is a supplemental ELL course for the highest level ELL student. This course will assist the ELL student to develop their reading and writing skills. CR 5, YO 9,10,11,12

ELL English 2 (1142) - This course will focus on the basic elements of the short story, novel, and dramatic plays. Students will become familiar with plot development, themes, vocabulary skills and symbolism. Students produce authentic writing pieces that will become part of an ongoing writing portfolio. CR 5, YO 10

ELL English 3 (1144) - This course will focus on understanding literary elements of a novel. Basic ideas include character development, plot, theme and setting, combined with short stories from literary mediums such as "Historias de Mexico" and Scholastic "Scope" magazine. Emphasis is placed on HSPA preparation and vocabulary and writing skills development. Students will develop artifacts for individual portfolios. Assessments include essays, short responses, projects and group and individual presentations. CR 5, YO 11

ELL English 4 (1146) - This course continues the focus on the literary elements of the novel. Students will also learn basic elements of writing a research paper. HSPA skill development, and writing techniques are also a focal point of this class. Group presentations and projects are included in assessment techniques. CR 5, YO 12

3.18 FAMILY AND CONSUMER SCIENCES

Advanced Foods (6674) - Students will utilize their knowledge and skill acquired in Foods 1 & 2 and focus on preparing various types of gourmet meals, pastries, fancy desserts, and unusual arrangement of food platters. CR 2.5, YO 11,12, PRE Foods 1; Foods 2

Baking Arts (6679) - This course introduces the student to the ingredients, processes, terminology, and equipment of basic baking. The student will prepare a variety of quick breads, yeast breads, cakes, cupcakes, pies, cookies, and special desserts. Information about ingredients, measurement, substitutions, chemical reactions, and nutrition is included. Skills in mixing, kneading, rolling, decorating, and attractive presentation are featured. Each student will collect recipes to make their own cookbook. The students will use their skills and creativity to provide baked goods for school, family, and friends, and the community. CR 2.5, YO 10, 11,12

Child and Personal Development (6676) - This course will provide a helpful background for students as they are becoming responsible adults. The course begins with the study of children from the prenatal stage through middle childhood. The physical, intellectual, emotional, social, and moral development of each age is covered. Emphasis is placed on useful child care skills and positive methods of behavior management. Projects include children's nutrition, toy analysis, creative story presentation, and an infant simulator experience. The course continues with personal development and independent living skills. Money management, budgeting, bank accounts, check writing, and consumer skills are included. Additional topics of study include nutrition, interior design, and sewing (hand and machine). The class is a prerequisite for Preschool Lab. CR 5, YO 10,11,12

Commercial Foods (6675) - Learn what it takes to work in the food industry. You will develop recipes, plan menus, and simulate a catering business by preparing and presenting food for large groups of people. You will also get to see what it takes to run a restaurant through on-site visits to some of the area's food establishments. CR 5, YO 12, PRE Advanced Foods, International Culinary Experience, Teacher Recommendation

Fashion 1, Art and Design (6670) - This is an introductory semester course on fashion design. Emphasis will be placed on art, design and illustration. Using a variety of materials, students will study the aesthetics and basic principles of design (i.e. color, balance and rhythm). Students will have opportunities to create their own fashion statements. This course may include trips to museums and/or fashion events. CR 5, YO 10,11,12, PRE Art 1

Fashion 2 (6678) - The students will begin with a brief review of the human female anatomy for assessment. This will take the students into the anatomy of the male and child/teen anatomy. The students will begin to understand the development of the child to adulthood, age, size and height for each appropriate age. Drawing and design will continue from level 1 but advance to male and child. By MP 2, construction of the student's designs will become the main focus. Students will continue to read and learn about designers and begin to venture into areas outside of design and construction, such as buying/selling, window display and merchandising. Guest artists will be brought into the classroom and fashion internships/college visits will be encouraged. Level 1 and 2 will end with a strong, well rounded body of work required for the college portfolio. CR 5, YO 11, 12 PRE Fashion 1

Foods 1 (6671) - This is a semester course in safety and sanitation in the kitchen. Students will be expected to develop skills in using the correct tool for the right task, basic food preparation, measuring ingredients accurately, planning food shopping for nutritious family meals, mealtime etiquette, budgeting and comparison shopping. Knife Skills and various cooking techniques will be stressed. CR 2.5, YO 10,11,12

Foods 2 (6672) - Foods 2 is a semester course designed to introduce students to the culinary arts as a profession. Students will explore various cooking techniques. Emphasis in this course is given to the development of basic competencies related to the culinary arts profession, food preparation, basic menus and recipes, standardization, and kitchen procedures. CR 2.5, YO 10,11,12 PRE Foods 1

International Culinary Experience (6673) - Travel around the globe by preparing various cuisines that countries have to offer while learning about their traditions and culture through food. Authenticity is stressed in the preparation of food while customs and values of particular countries are explored. CR 2.5, YO 11, 12, PRE Foods 1; Foods 2

Pre-School Lab (6677) - In this full-year laboratory course, students plan and operate a nursery school for preschool children. High school students study child guidance, curriculum planning, and techniques for teaching preschoolers. They prepare lesson plans and act as the teacher of the day. This course offers students an opportunity to interact with children and learn about child development and behavior through a personal experience. This class is an excellent prerequisite for a

career related to children as well as for personal enrichment. CR 10, YO 11,12, PRE Child and Personal Development

3.19 MATHEMATICS

Placement Factors

Algebra 1 placement exams are administered by high school personnel to all incoming eighth grade students prior to entering Grade 9. An incoming ninth grader's placement in Math is based on a combination of:

- Eighth grade course at their respective school
- Algebra 1 placement exams
- NJ ASK 7
- Teacher Recommendation

It is suggested that students pursuing the following courses should meet the following criteria:

* Grade 8 students who have successfully completed an Algebra 1 course in eighth grade and earn a passing grade on placement exams with an average of 75 or higher are placed in Honors Geometry (3306).

** Grade 8 students who earn an average of 90 or higher on the Algebra 1 placement exams and score Advanced Proficient on the NJ ASK 7 & 8 (or score in the 99th percentile on the Terra Nova if they do not take either ASK test), are invited to take Honors Geometry and Honors Algebra 2.

*** Honors Algebra 2: earn a final average of 90 or higher in both Algebra 1 (3301) and Honors Geometry (3306, 3307) or Geometry (3308).

**** Take Honors Geometry (3307) & Honors Algebra 2 (3320) concurrently: earn a final average of 90 or higher in Algebra 1

***** AP Calculus: earn a final average of 90 or higher in Honors Pre-Calculus or Pre-Calculus

Algebra 1 (3301) and (3302) - This course develops an understanding and modeling of a variety of real world situations using Algebra. Skills include operations with real numbers, exponents, and polynomials. Successful completion of the course includes graphing and finding solutions for linear, quadratic, exponential and absolute value functions, systems of equations and inequalities, and working with radical expressions and equations. Modeling includes both abstract and concrete forms of representation for a complete understanding of Algebra. CR 5, YO 9,10,11

Honors Geometry (3306, 3307) - This course integrates algebraic and geometric concepts to provide both abstract and real-world applications of geometry, and the development of inductive and deductive reasoning, communication skills, and problem-solving techniques. Students will discover relationships between plane and solid geometric figures and learn to reason logically in order to solve abstract geometric proofs. Reasoning is also applied to the study of congruence and similarity, relationships found in circles, and real-world applications. This course provides students with the conceptual framework, practical application, and analytical skills necessary to meet the needs of strong mathematics students and support their future study in mathematics and science. CR 5, YO 9, 10, 11 Suggested PRE: Algebra 1 with an average of 90 or higher and a teacher recommendation.

Geometry (3308) - This course integrates algebraic and geometric concepts as students discover relationships between plane and solid geometric shapes and to reason logically in a step-by-step approach in order to solve geometric proofs. Logical reasoning is also applied in finding length of segments, degrees of angles, area and perimeter of polygons, congruent and similar triangles, circles, and applications of the distance formula and slope. CR 5, YO 10,11,12, Suggested PRE Algebra 1 with an average of 75 or higher

Geometry Concepts & Applications (3310) - This course reinforces algebraic concepts while providing a foundation of geometric concepts and skills. Study includes the relationship between parallel and perpendicular lines, triangle relationships, quadrilaterals, similarity, polygons and area. Skills development within meaningful contexts helps students connect geometry to real life applications. High School Proficiency Assessment and SAT preparation is integrated throughout the course. CR 5, YO 10,11,12, PRE Algebra 1 with an average less than 75

Honors Algebra 2 (3325) - This course is designed for the strong mathematics student in preparation for Honors Pre-Calculus. Topics covered include linear, quadratic, polynomial, rational, exponential and logarithmic functions, systems of equations, polynomial and rational expressions, sequences and series, radicals, irrational numbers, complex numbers,

quadratic relations and systems, exponents and logarithms, and matrices. CR 5, YO 10,11, Suggested PRE Algebra 1 (3301) and Geometry (3306; 3307) with averages of 90 or higher and a teacher recommendation.

Algebra 2 (3320) - Algebra 2 is the second course in the Algebra sequence, continuing the study of linear and quadratic functions. Students will complete an in-depth study of polynomial, exponential, logarithmic, and rational equations and functions. Throughout this course students will relate topics to real-world applications and use technology to facilitate their understanding of the topics being studied. Algebra 2 provides the framework of mathematical skills and knowledge needed for advanced courses in mathematics. CR 5, YO 10, 11, 12, Suggested PRE Algebra 1 and Geometry with averages of 75 or higher

Algebra 2 Concepts (3324) - This course builds on the concepts begun in Algebra 1, developing an understanding of more abstract concepts and applications including real numbers, equations and inequalities, polynomials, rational expressions, exponents, radicals, linear and quadratic equations and selected topics. Throughout this course students will use real-world applications and technology to facilitate their understanding of the topics being studied. High School Proficiency Assessment and SAT preparation is integrated throughout the course. CR 5, YO 11,12 PRE Algebra 1 & Geometry with averages less than 75

Honors Pre-Calculus (3327) - A course for selected students stressing work with functions: polynomial, trigonometric, logarithmic, exponential and inverse functions. Topics from analytic geometry and advanced algebra are taught to provide each student with a thorough background for the study of calculus. CR 5, YO 10, 11, 12 Suggested PRE Geometry and Algebra 2 (3320) with an average of 90 or higher or Honors Algebra 2 (3325) with an average of 85 or higher

Pre Calculus (3326) - This course provides the essential concepts and skills of algebra, trigonometry and the study of functions that are needed for further study in mathematics. Topics include linear, quadratic, and polynomial functions, conic sections, exponential and logarithmic functions, trigonometry, matrices, determinants and sequences and series. CR 5, YO 11,12, Suggested PRE Algebra 2 (3321) with an average of 80 or higher

AP Calculus AB (3329) - A full-year course in calculus following the AP syllabus recommended by C.E.E.B. Topics include differentiation and integration of polynomial, trigonometric, logarithmic, and exponential functions with such practical applications of the above as maximum-minimum area under a curve, and solids of revolution. Students are expected to take the AP exam. CR 5, YO 12, Suggested PRE Honors Pre-Calculus average 90 or higher, completion of summer independent study project, and teacher recommendation

AP Calculus BC (3330) - A full-year course in calculus following the AP syllabus recommended by C.E.E.B. It is a course in the calculus of functions of a single variable. It includes all topics covered in Calculus AB plus additional topics in the areas of: Functions, Graphs, and Limits; Applications and Computation of Derivatives; Applications of Integrals; Techniques of Antidifferentiation; and Polynomial Approximations and Series. Students are expected to take the AP exam. CR 5, YO 12, Suggested PRE AP Calculus (AB) with an average of 80 or higher

Calculus (3328) - A non-honors full-year course that introduces the fundamental elements of differential and integral calculus by including functions, limits, derivatives, exponential and logarithmic functions, derivatives of exponential and logarithmic functions, anti-derivatives, definite integrals, trigonometric functions, techniques of integration, and simple differential equations. CR 5, YO 12, Suggested PRE Pre-Calculus with an average of 80 or higher

AP Statistics (3341) - This full year course is designed for students planning to continue their studies in mathematics or science. This course follows the AP Statistics syllabus as outlined by the College Board. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns and statistical inference. Upon completion of the course, students should be able to design an experiment, collect appropriate data, select and use statistical techniques to analyze the data, and develop and evaluate inferences based on the data. Ideas and computations presented in this course will have immediate links and connections with actual events. Graphing calculators and computer software will be utilized as tools for data analysis. Students are expected to take the AP exam. CR 5, YO 11,12, PRE Suggested Geometry and Algebra 2 with averages of 90 or higher. Due to the amount of writing required in this course, it is recommended that students have attained at least a B average in their English classes.

Statistics (3340) - This full year math course covers statistical concepts necessary for those planning to continue their studies in a social science, business or engineering field. The purpose of this course is to introduce students to the basic concepts and techniques for collecting and analyzing data, drawing conclusions from data, and making predictions about data. The emphasis in this course will be on concepts and practical uses of statistics in research studies and the media, rather than in-depth coverage of traditional statistical methods. Students will work on projects involving hands-on gathering and

analysis of real-world data with applications that may be drawn from a variety of disciplines, including the social sciences of psychology and sociology, education, business, economics, engineering, the humanities, communications, and liberal arts. Graphing calculators and computer software will be utilized as tools for data analysis. CR 5, YO 11, 12, Suggested PRE Algebra 2 with an average of 80 or higher

Applied/Discrete Math (3350) - This full year course focuses on problem solving methods, mathematical applications, and college readiness skills while reviewing the fundamentals of algebra, geometry, trigonometry, and data analysis. Discrete math topics include the study of sets, functions and relations, matrix algebra, combinatorics and finite probability, graph theory, recurrence relations, logic, mathematical induction, and algorithmic thinking. SAT preparation is integrated throughout the course. CR 5, YO 11,12, PRE Algebra 2

HSPA Math (3360) - This course is required for twelfth grade students who were not proficient on the HSPA and need to develop the necessary mathematical and problem solving skills for the purpose of passing the HSPA. CR 5, YO 12, PRE Partial Proficiency on the HSPA

Practical Applications of Math and Science (4400) - The keystone course for all students enrolled in the Academy of Mathematics and Science uses the inquiry approach to the study of the relationship between mathematics and science as they are used in everyday life. Students are provided with a comprehensive study extending their knowledge of fundamental science explorations and data collection and analysis. Study focuses on developing the research skills necessary to develop and complete an independent research project later in their high school career. Practical Applications of Math and Science coursework and explorations provide students with the conceptual framework, knowledge and analytical skills necessary to discriminate between valid and invalid information found in everyday life, develop conclusions based on the analysis of individual research, and communicate these findings to others. Completion of this course will satisfy 2.5 credits toward the 21st Century Life and Careers requirement. CR 5, YO 10,11, PRE Acceptance in the Academy of Mathematics and Science

IB Mathematics SL 1 (3374) - This is a rigorous course which builds on students' knowledge of Algebra 2 and Pre-Calculus. The course focuses on introducing important mathematical concepts through the development of mathematical techniques. The major topics studied in this course are: Differential Calculus, Integral Calculus, and Statistics. Sequences, Series, Matrices, Vectors, Lines, and Planes will also be studied in more depth than students encountered previously. As part of the IB assessment, students will complete at least two Internal Assessment activities, which are in-depth investigations that are written up as stand-alone technical papers. The course culminates with the IB External Assessment, consisting of Paper 1, which does not allow a calculator, and Paper 2, which does allow a calculator. Both papers are made up of both short-response and extended-response questions on the whole syllabus. CR 5, YO 11,12, Suggested PRE Honors Pre-Calculus or Pre-Calculus with an average of 85 or higher

IB Mathematical Studies SL (3370) - This rigorous course is a survey of mathematics designed for students whose primary area of study is not math or science. The focus of this course is the relationship of mathematics to other subjects of study and to the world around us. The primary purpose is to develop the critical thinking skills of students and to give them an appreciation of the many ways that mathematics can be used to better understand natural phenomena and current events. The many contributions of mathematicians from all over the world, as well as the societal influences on mathematical discoveries, will be introduced where appropriate. The material covered in this course will help prepare students to solve problems dealing with the following areas: Numbers and Algebra, Sets and Logic, Probability, Statistics, Functions, Geometry and Trigonometry, Introductory Differential Calculus, and Financial Mathematics. Students will complete an independent project, which serves as the internal assessment. CR 5, YO 11 Suggested PRE Algebra 2, Geometry with an average of 75 or higher.

3.20 PHYSICAL EDUCATION & HEALTH/DRIVER TRAINING

Physical Education 9 (8000), 10 (8010), 11 (8020), 12 (8030) - Physical Education is a required four-year course in which students will improve their physical fitness and develop an awareness of lifetime physical activities. Freshmen and sophomore classes provide an introduction to team sports and the Adventure Education program, the junior and senior classes focus on lifetime activities. Team sports may include football, soccer, lacrosse, softball and basketball and the lifetime sports that include volleyball, badminton, pickleball, tennis, as well as weight training and fitness. Students are graded on participation, skill development and a written final is taken for each activity to assess their knowledge of the activity. CR 3.75, YO 9,10,11,12

Health 9 (8001) - Health Education in grade nine is a required course in which students are scheduled for a marking period from their physical education class. The course examines the topics of wellness, and the personality growth and physical maturation of the adolescent. Activities include individual and group projects, tests, quizzes, and homework assignments. CR 1.25, YO 9

Health 10 - Driver's Ed (8011) - Health Education in grade ten is a required course in which students are scheduled for a marking period from their physical education class and is focused on driver education. Topics include licensing, registration of vehicles, insurance regulations, rules of the road, driving techniques and attitudes. Students will be given the NJ Motor Vehicle Commission written test at the conclusion of the course. A minimum grade of 80 will exempt the student from the written portion of the licensing test. Activities include homework assignments, quizzes, and projects. CR 1.25, YO 10

Health 11 (8021) - Health Education in grade eleven is a required course in which students are scheduled for a marking period from their physical education class. The course examines the topics of family management, parenthood, sexually transmitted diseases, teen pregnancy and relationships, stress management, alcohol, tobacco, and drug use. Activities include a marriage project, tests, quizzes, and homework assignments. CR 1.25, YO 11

Health 12 - CPR/First Aid (8031) - Health Education in grade twelve is a required course in which students are scheduled for a marking period from their physical education class. Topics include skills in CPR certification for adult, child and infant, and first aid. The American Red Cross test will be administered at the conclusion of the course and students may become certified. Activities for the course include quizzes, tests and homework assignments. CR 1.25, YO 12

Foundations of Exercise Science and Wellness (8050) - ES111 - FALL 2011- This course offers an introduction to wellness through investigation of lifestyle and other critical issues in fitness, sports, exercise science and wellness. Changing philosophies and basic concepts are introduced. This is a concurrent enrollment course offered through Georgian Court University where students may earn 3 college credits upon payment of a reduced tuition and successful completion of the course. CR 2.5, YO 12 Juniors may take this course with the instructor's approval.

Introduction to Sports and Entertainment Marketing (8016) - The students will receive an introductory look at the components of a marketing plan, primarily the marketing mix. Students will identify the similarities and differences between sports and entertainment and other products, with the primary focus on gaining an understanding of the four components of the marketing mix. In addition, the students will be responsible for designing a new product, as well as, analysis of various pricing and distribution considerations and strategies. The students are introduced to market research techniques and general market segmentation categories. The importance of the branding process and the various branding strategies are implemented to differentiate the products. Methods used to create additional revenue streams, such as licensing and sponsorship agreements, are also discussed. Lastly, the students are responsible for the promotional planning of their new products through the marketing plan. Completion of this course AND Introduction to Sports Management will satisfy 2.5 credits toward the 21st Century Life and Careers requirement / CR. 2.5, YO 10 - Sports Medicine & Management

Introduction to Sports Medicine (8015) - This course will introduce the student to the fields of allied health care and sports medicine. Career exploration will include athletic training, medicine, physical therapy, emergency medicine, nursing, exercise physiology, nutritionist/dietician, personal fitness training. Topics will include but are not limited to: care, prevention, and rehabilitation of sports related injuries, basic anatomy and physiology, emergency care, strength and conditioning, nutritional aspects, fitness and wellness. Students will have opportunities to develop their skills and knowledge through the use of various text, visual, and hands-on experiences. Guest lecturers and field trips will also be utilized in this course. Completion of this course AND Introduction to Sports Management will satisfy 2.5 credits toward the 21st Century Life and Careers requirement. CR 2.5, YO 10

Nutrition in Exercise, Wellness & Sports (8051) - ES220 - Spring 2011 - This college-level course will examine why nutrition is significant and its relationship to the human body. Students will acquire a general body of nutrition knowledge

based on scientific principles. Students will explore a variety of controversial issues related to food and nutrition and explain the importance of balancing nutrition with physical fitness. This is a concurrent enrollment course offered through Georgian Court University where students may earn 3 college credits upon payment of a reduced tuition and successful completion of the course. CR 2.5, YO 12 Juniors may take this course with the instructor's approval.

Introduction to Sports Administration (8052) -SPAD1004 - This course will provide an overview of the issues, trends and concerns of the industry. Students will learn current practices and procedures used by practitioners in the field. Students will be introduced to different occupations and job titles currently in place. Students are expected to begin developing the skills and experiences necessary to be successful as a sports executive. This is a concurrent enrollment course offered through Fairleigh Dickinson University where students may earn 3 college credits upon payment of a reduced tuition and successful completion of the course. CR 5, YO 12

Sports & Hospitality Marketing Management (8018) - This course is an extension of the introductory course and expands upon the research process as well as and operational aspects of event management. This course is designed to allow students to apply their understanding of general marketing concepts to create a fictitious sports franchise, where responsibilities will include market research and analysis for a new stadium location, as well as planning of a particular event and identifying sources of revenue generators. Through project-based learning assignments, the students are exposed to all elements of the Marketing Mix and conduct market research and analysis to assist in the evaluation and selection of a potential site during the product planning phase for their franchise. The students are introduced to the market segmentation process and the various methods used to target potential consumers. The students learn about the branding process, the role of product licensing and their agreements as well as development and maintenance of the product mix and will be responsible for creating the branding strategy and image for their newly developed franchise. In addition, students will gain an understanding about the facility design and operations through activities such as, ticket pricing, sponsorship and concession agreements, event staffing, and security issues and concerns. The students are responsible for the establishment of an event and subsequent development of the promotional strategies, the factors influencing the promotional mix and the evaluation of the marketing communications. CR: 5, YO: 11, Pre: AOF - Intro to Marketing, SMM - Intro to Sports and Entertainment Marketing

Sports Medicine 2 (8017) - This academy course will further introduce the student to the fields of allied health care. Students will gain practical knowledge in the care, prevention, and rehabilitation of sports related injuries, basic anatomy and physiology, emergency care, strength and conditioning, nutritional aspects in sports, fitness/wellness and sports performance. Students will have opportunities to develop their skills and knowledge through the use of various text, visual, and hands-on experiences. Entry level college/university degree programs look favorably upon students who have had previous experience in the allied health care fields. CR 5, YO 11

3.21 SCIENCE

Placement Factors * Science placement exams are administered by high school personnel to all incoming eighth grade students prior to entering Grade 9. An incoming ninth grader's placement in Science is based on a combination of:

- Eighth grade course at their respective school
- Science placement exams
- NJ ASK 7
- Teacher Recommendation

It is suggested that students pursuing the following courses should meet the following criteria:

*** Honors Chemistry: complete Biology (4403, 4405) with a grade of 90 or higher, have a teacher's recommendation, and achieve Advanced Proficient on the NJ Biology Competency Test

*** Physics: complete Algebra 2 (3325, 3320) with a grade of 80 or higher

*** AP science courses: Earn a grade of 90 or higher in Biology (4403, 4405) and Chemistry (4440, 4430) and teacher's recommendation

Exploratory Science (4401) - Exploratory Science is an overview course designed to cover basic chemistry, physics and biology. Topics of study include scientific processes, science and society, mathematical applications, chemistry, physics, body systems and cell biology. The fourth marking period covers introductory topics seen in Biology, with a focus on data analysis and written applications. Laboratory experiences and demonstrations are constantly utilized throughout the course. CR 5, YO 9

Biology (4403) (4405) - This course provides an understanding of structure and function of living things. It examines the chemistry of life, cells, genetics and heredity, evolution, classification and diversity, and ecology. Emphasis is placed upon the development of scientific methods and analysis and evaluation based on observation, experimentation, and class discussions. Laboratory experiences and demonstrations are constantly utilized throughout the course. CR 6, YO 9,10,11,12, PRE 9th grade or completion of Exploratory Science (4401)

AP Biology (4410) - This course examines molecular, cellular, organism, and population biology through the study of chemical basis, cells, enzymes, energy transformation, cell division, chemical nature of gene, origin of life, plant structure and function with emphasis on angiosperms, plant reproduction and development, animal structure and function with emphasis on vertebrates, animal reproduction, development, heredity, evolution, ecology, behavior. The course follows the CEEB guidelines including labs. Students are expected to take the AP exam and participate in dissections. CR 6, YO 11,12, Suggested PRE 90 or higher in Biology (4403, 4405) and Chemistry (4430, 4440), completion of summer project, and teacher recommendation

Chemistry (4430) - This course will provide students with a comprehensive up-to-date approach to an extensive study of matter. Topics studied include those traditionally taught in an introductory course in chemistry such as atomic structure, periodic table, chemical composition, gas laws, and solutions and their behavior. Laboratory experiences and demonstration are constantly utilized throughout the course. CR 6, YO 10,11,12 PRE Biology and Algebra 1

Honors Chemistry (4440) - This comprehensive course stresses the relations between structure and properties of matter, but also demonstrates the relation of chemistry to mathematics and physics. It is designed to give the student an understanding of the fundamental principles of inorganic chemistry throughout the development of the laws and theories that give a logical interpretation of chemical phenomena. Emphasis is placed upon the relationship of atomic structure and bonding to the physical and chemical properties of substances. The mathematical foundation of modern chemical theory is emphasized. Laboratory experiences and demonstrations are constantly utilized throughout the course. This class will prepare students who are interested in taking AP Chemistry. CR 6, YO 10,11, Suggested PRE Algebra 1 and Biology with a grade of 90 or higher, teacher recommendation and Advanced Proficient on the NJ BCT.

Honors Advanced Topics in Chemistry - This course is a continuation of the development of fundamental chemistry principles and their application. The topics that will be covered include solution chemistry, acids and bases, oxidation reduction reactions, equilibrium, kinetics, thermodynamics, nuclear chemistry and an introduction to organic chemistry. Emphasis will be placed on problem solving skills to better prepare students for careers in chemistry and/or related science fields. CR 6, YO 11, 12 Suggested PRE Chemistry or Honors Chemistry and Geometry with a grade of 80 or higher (Pending BOE

Approval)

AP Chemistry (4450) - This course is intended for those students whose academic needs are directed towards careers in medicine, engineering, pharmacy and related fields of similar demands. The course investigates advanced concepts in atomic structure, chemical bonding, electrochemistry, thermodynamics, chemical kinetics, equilibrium, group analysis, and qualitative analysis of organic chemistry. The course follows the CEEB guidelines including labs. Students are expected to take the AP exam. CR 6, YO 11,12, Suggested PRE Honors Chemistry with a grade of 90 or higher, completion of summer project and teacher recommendation

Physics (4460) - This course introduces the traditional topics found in physics: motion, heat, light, kinetic theory, wave motion, gravitation, electromagnetism, and optics. Laboratory experiences and demonstrations are constantly utilized throughout the course. CR 6, YO 11,12, Suggested PRE Biology, Chemistry and Algebra 2 with a grade of 80 or higher

AP Physics B (4462) - This course investigates advanced concepts in physics and follows the CEEB guidelines, including labs. Included are topics in both the classical and modern physics and provides a systematic introduction to the main principles of physics. Topics include thermodynamics, electromagnetism, optics, mechanics and modern physics at a level traditionally encountered in first year college physics. The course will provide a challenging, interesting and intellectual atmosphere. Students are expected to take the AP B level Physics exam. CR 6, YO 11,12, Suggested PRE Biology, Chemistry and Algebra 2 with a grade of 90 or higher, completion of summer project, and teacher recommendation

AP Physics C (4464) - This course investigates advanced concepts in physics and follows the CEEB guidelines including labs. Topics include mechanics and electricity & magnetism at a level traditionally encountered in first or second years of college. Methods of calculus studied at the AP Calculus levels are applied extensively. The course will provide a challenging, interesting and intellectual atmosphere. Students will be prepared to take the AP C level Physics exam. CR 6, YO 12, Suggested PRE AP Physics B, completion of summer project, and teacher recommendation

Physical Science Concepts (4466) - This course is designed to present the basic concepts of chemistry and physics. The emphasis in physics is on qualitative analysis as students explore mechanics, heat, electricity and magnetism, and waves. Chemistry focuses on the atom, mixtures, bonding, acids and bases, oxidation and reduction, the chemistry of drugs, and their interconnections. Activities are designed to allow students to discover science concepts through inquiry and apply the knowledge to their own lives. Laboratory experiences and demonstrations are constantly utilized throughout the course. Vocabulary and mathematical applications are presented in a less vigorous manner in comparison to a traditional course. CR 5, YO 11,12, PRE Biology

Honors Anatomy and Physiology (4470) - This course for college-bound students is a study of the anatomy and physiology of the major systems of the human body. The focus will be on the relationship of structure and function in the normal condition. There will also be some discussion of the common pathologies in the systems covered. Laboratory experiences and demonstrations are constantly utilized throughout the course. Student responsibilities include dissections, lab reports, reading assignments, research and presentations. CR 6, YO 11,12, Suggested PRE Biology and Chemistry with averages of 80 or better

Environmental Science (4480) - This course is designed to introduce students to major ecological concepts and the environmental problems which affect the world in which they live. Students explore the impact of technology, examine social issues, and explore possible solutions. The goal of the 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 man-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Laboratory experiences and demonstrations are utilized throughout the course. CR 6, YO 11,12, PRE Biology and Chemistry

Marine Science (4481) - Marine Science includes the history of Marine Science and the study of coastal geology, beach dynamics, the sea floor and chemical and physical features of seawater and the world ocean. Students participate in "hands-on" problem solving activities both individually and as a group and are expected to complete a Field Guide performance project dedicated to species native to our area. They also complete a year-long research project and paper. Laboratory experiences and demonstrations are constantly utilized throughout the course. Students are expected to participate in the dissection of several marine organisms. CR 6, YO 11,12, PRE Biology and Chemistry

Forensic Science (4468) - Forensic Science combines Biology, Chemistry and Physics to provide an introduction to understanding the science behind crime detection. Scientific methods specifically relevant to crime detection and analysis will be presented with emphasis placed upon the techniques used in evaluating physical evidence. Topics included are blood analysis,

organic and inorganic evidence analysis, microscopic investigations, hair analysis, DNA, drug chemistry and toxicology, fiber comparisons, paints, glass compositions and fragmentation, fingerprints, soil comparisons, and arson investigations, among others. Laboratory exercises will include techniques commonly employed in forensic investigations. This is a concurrent enrollment course offered through Syracuse University where students may earn 4 college credits upon payment of a reduced tuition and successful completion of the course. CR 6, YO 11, 12, Suggested PRE Biology, Chemistry and Algebra 2 with an average of 85 or higher

IB Biology SL (4490) - In the IB Biology course students will acquire in depth knowledge about Biology along with a broad understanding of the principles and methods which characterize science and technology. Students will focus on developing an ability to analyze, evaluate and synthesize scientific information. Topics include the chemistry of life, cells, genetics, ecology and evolution, physiology and health, microbes and biotechnology. The level and content of this course will provide a sound preparation for university studies. CR 5, YO 11,12, Suggested PRE Chemistry with an average of 75 or higher

IB Environmental Systems and Societies SL (4494) - The prime intent of this course is to provide students with a coherent perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face. Students' attention can be constantly drawn to their own relationship with their environment and the significance of choices and decisions that they make in their own lives. It is intended that students develop a sound understanding of the interrelationships between environmental systems and societies, rather than a purely journalistic appreciation of environmental issues. The approach therefore is conducive to students evaluating the scientific, ethical and socio-political aspects of issues. Students meet for mandatory field work over the summer. The purpose of these meetings is to complete the group 4 field study component of the IB ESS course. This component is integral to the diploma process. CR 5, YO 11,12, Suggested PRE Chemistry with an average of 75 or higher.

3.22 SOCIAL STUDIES

It is suggested that students pursuing the following courses should meet the following criteria:

***Honors US 1: complete the additional honors assignments, maintain a 90 average for the year, keep your honors folder organized and score an 80 or higher for the midterm and final exams.

***Honors US 2: maintain 80+ average in Honors US1 or a 90+ average in US1 CP and teacher recommendation

***Honors US 3: maintain 80+ average in Honors US2 or a 90+ average in US2 CP and teacher recommendation; **student may not enroll in class upon completion of AP US History

***AP American History: maintain an 85+ average in Honors US1 or a 93+ average in US 1CP, attend summer sessions and have a teacher recommendation

***AP European History: maintain an 85 + average in Honors US2 or AP American History or a 93+ average in US 2CP, attend summer sessions and have a teacher recommendation

***Human Geography/AP Human Geography - Successful completion of Global Studies and enrollment in the International Studies Academy.

Global Studies (2201) - This course will focus on the key political, social, and economic movements that have shaped World History from 1400 A.D. to the present day. Study will center around six geographic areas: Europe, China, India, Africa, Latin America, and the Middle East. Students in Global Studies will also take part in extensive analysis of the Holocaust and other examples of human genocide. Embedded in the program is an "honors option" which may reward students for meeting established criteria. Students who complete work at this level may be eligible for honors credit and a five point honors weight on their final averages. CR 5, YO 9

Honors US History 1 (2205) - This course begins the first year of a three-year cycle in United States History for motivated students. Intensive study will be done in the critical aspects of historical work. Reading, analyzing, and synthesizing historical materials will be a major focus of the course. Activities will include projects, group work, oral and written reports, outside reading, essays and debates. CR 5, YO 10, Suggested PRE Completion of Global Studies honors option, 90+ average in Global Studies, an average grade of 80 or above on both the Global Studies mid-term and final examinations, teacher recommendation

US History 1 CP (2203) - The course will focus on the growth and development of the United States from the colonial period through reconstruction. Topics will include the constitutional rights, obligations and privileges of citizens in the continually evolving relationship with their government. Historical facts and the examination of the early years of American history and culture will be covered. Activities include projects, group work, oral and written reports, speeches and essays. CR 5, YO 10

AP American History (2209) - This AP program in American History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in American History. In addition to an interpretive text, the course utilizes supplementary readings, documents, essays and letters to provide chronological and thematic coverage of special periods in American History. Students taking the course are required to take the AP American History test. CR 5, YO 11, Suggested PRE Honors US 1 (85+ average), US 2 CP (93+ average), attendance at summer sessions and teacher recommendation

Honors US History 2 (2208) - This is the second year course in a three-year cycle. Emphasis is placed upon independent research and utilization of the tools of the historian. Students are encouraged to demonstrate competence in undertaking and completing historical studies of the United States in the twentieth century. Activities will include simulations, authentic projects, oral presentations, and independent research. CR 5, YO 11, Suggested PRE 80+ average in Honors US History 1 (2205), 90+ average in US History 1 CP (2203), teacher recommendation

US History 2 CP (2206) - This course will continue the study of the growth and development of the United States from reconstruction through the twentieth century. The social, economic, political, and international aspects of our nation will be stressed. Continued emphasis is made with regard to contributions made by women and various ethnic groups. Activities will include Native American simulation, propaganda project, journal project, oral reports, and essay tests. CR 5, YO 11, PRE US History 1

IB History of the Americas HL 1 (2220) - This course is open to any student intending to go to college and specifically

meets the IB full diploma requirement for individuals and Society (social studies). History of the Americas is a comparative course, which will integrate the histories of Canada, Latin America, and the United States from the 18th Century to the present, with a heavy emphasis on the past 100 years. This course is designed to promote an awareness and understanding of the countries in the western Hemisphere. Students in this class should have average to above average writing skills and above average or college-capable reading skills. In addition to serving as the first year of the IB curriculum for higher level Social Studies, this course counts for graduation purposes as one year of United States history. CR 5, YO 11, PRE US History 1

Honors US History 3 (2210) - This course will continue the study of the growth and development of the United States from post World War II into the twenty-first century. The social, economic, political and international aspects of our nation will be stressed. Emphasis will be placed on the examination of the United States in its role involving global economics, technology, and international conflicts. Activities will include class projects, research, oral and written reports, and essay tests. CR 5, YO 12, Suggested PRE Honors US History 2 with an 80+ average or a 90+ average in US History 2 CP (2206) and teacher recommendation

AP European History (2211) - The goals of the Advanced Placement Program in European History are to develop an understanding of some of the principal themes in modern European history, to develop an ability to analyze historical evidence and to develop an ability to analyze and to express historical understanding in writing. Students will trace developments in European history through the examination of three central themes: Intellectual and Cultural History, Political and Diplomatic History and Social History. CR 5, YO 11,12, Suggested PRE Honors US 2 (85+ average), AP American History (85+ average), US 2 CP (93+ average), summer sessions, and teacher recommendation

IB History of the Americas HL 2 (2221) - IB History of Americas HL 2 is an in-depth study of an individual prescribed subject and the selection of two topics. IB History provides both structure and flexibility, fostering an understanding of major historical events in a global context. It requires students to make comparisons between similar and dissimilar solutions to common human situations, whether they are political, economic or social. It invites comparisons between, but not judgments of, different cultures, political systems and national traditions. The content of the history course is intrinsically interesting and it is hoped that many students who follow it will become fascinated with the discipline, developing a lasting interest in it, whether or not they continue to study it formally. The international perspective in Diploma Programme history provides a sound platform for the promotion of international understanding and, inherently, the intercultural awareness necessary to prepare students for global citizenship. Above all, it helps to foster respect and understanding of people and events in a variety of cultures throughout the world. Students will be expected to complete the IB Internal Assessment and the IB exams in May. CR 5, YO 12, PRE IB History of the Americas HL 1

American Legal System/Criminal Law (2237) - This course is an elective which examines the evolution of our legal system and its lawmaking process. Emphasis will be placed on the rights and liabilities as they pertain to freedom of speech, the press, religion, right to privacy, due process and discrimination. In addition, the course will concentrate on the nature of crimes, jury trials, and juvenile law and provide an understanding of basic legal terms and concepts and how law decisions affect everyday life. CR 2.5, YO 11,12

AP Human Geography (2212) - The purpose of this course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students enjoy spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Topics of study include: 1) Geography: Its Nature and Perspectives, 2) Population, 3) Cultural Patterns and Processes, 4) Political Organization of Space, 5) Agricultural and Rural Land Use, 6) Industrialization and Economic Development, and 7) Cities and Urban Land Use. This course will satisfy 2.5 credits toward the 21st Century Life and Careers requirement. CR 5, YO 10, PRE Global Studies and acceptance into the Academy of International and Cultural Studies

Contemporary World Issues 1 (2230) and 2 (2231) - The courses are two semester courses which survey the major problems confronting Americans in the world today. Each problem will be studied as to its historical origins, geographic location, present status, potential implications and the exploration of possible solutions. Current political, social and economic questions will be examined utilizing reading, geographic, research and analytical skills. Activities will include multicultural projects, oral reports, debates, atlas work, editorials, essays and tests. CR 2.5, YO 11,12

Forensic Social Science: Questioning the Answers (2100) - The keystone experience in the Academy of Humanities and Social Sciences is a course where students would be introduced to the tools of research by investigating historical mysteries. They will examine historical artifacts, folklore and legends in order to gain a better understanding of historical facts and analysis. In addition to historical analysis, students will incorporate current events and apply them to various historical trends. Completion of this course AND Introduction to Philosophy will satisfy 2.5 credits toward the 21st Century Life and

Careers requirement. CR 2.5, YO 10, Acceptance into the Academy of Humanities and Social Sciences

Human Geography (2214) - This course will focus on the following topics of study: 1) Geography: Its Nature and Perspectives, 2) Population, 3) Cultural Patterns and Processes, 4) Political Organization of Space, 5) Agricultural and Rural Land Use, 6) Industrialization and Economic Development, and 7) Cities and Urban Land Use. CR 2.5, YO 10, PRE Global Studies and acceptance into the Academy of International and Cultural Studies. Must be taken with (2241) Pop Culture of the 20th and 21st centuries. Completion of this course AND Pop Culture will satisfy 2.5 credits toward the 21st Century Life and Careers requirement.

IB Psychology SL (2224) - This is a full year course with a focus on the systematic study of the factors of behavior and the mind with an emphasis on the Biological, Cognitive and Learning perspectives. The IB Psychology course aims to include a comprehensive cultural diversity component while studying the human experience. Students will be encouraged to recognize the various opinions in psychology while identifying strengths and weaknesses present in specific examples of research by collecting and interpreting data. CR 5, YO 11,12

Political Science (2232) - A semester course which examines the political processes from the following points of view: (1) structure, (2) the growth, development and function of political parties, (3) the reciprocal relationships between citizens and their government. CR 2.5, YO 11,12

Pop Culture of the 20th and 21st centuries (2241) - This half-year course is designed to compliment Human Geography as the keystone course for the International and Cultural Studies Academy. Students will examine social trends of each era of the 20th century to modern day. Aspects of society explored will include, but are not limited to: music, art, literature, language, television, movies, media outlets, fashion, and fads. Students will also explore international movements and global influences on popular culture. CR 2.5, YO 10, PRE Global Studies, enrollment in the I&CS Academy for sophomore year. Completion of this course AND Human Geography will satisfy 2.5 credits toward the 21st Century Life and Careers requirement. **Psychology (2236)** - This course offers an academic introduction to various areas in the study of psychology. The program topics will include: fields and careers in psychology, schools of thought to include historical and contemporary concepts, human development, key people, memory and thinking, various personality theories, dreams and sleep and psychological disorders. CR 2.5, YO 11,12

Sociology (2234) - Introduces students to the concepts and methods of the sociologist who studies man as a social being. Emphasis is placed on analyzing and objectively viewing issues, races and cultures in their own terms. Activities will include group work, oral presentations, tests, and projects. CR 2.5, YO 11,12

Tomorrow's Teachers (2255) - The primary goal of this program is to encourage academically able students who possess exemplary interpersonal and leadership skills to consider teaching as a career. It includes three themes: Experiencing the Learner; Experiencing the Profession; and Experiencing the Classroom. A variety of hands-on activities and a strong emphasis on observations, and field experiences are provided. This is a concurrent enrollment course offered through Fairleigh Dickinson University where students may earn 3 college credits upon payment of a reduced tuition and successful completion of the course. CR 5, YO 12

3.23 WORLD LANGUAGES

It is suggested that students pursuing the following courses should meet the following criteria:

****Honors level languages: maintain a 90 average and a minimum 85 on honors level placement exam plus teacher recommendation

****AP level languages: maintain an 85+ in Honors level 4 class

**AP French and AP Latin require a summer project after the fourth level honors class.

French 1 (5551) - During the first year, the student is taught to communicate orally and in writing using the fundamental patterns of the language within the constraints of the vocabulary and the language structure mastered. The student is expected to ask and answer questions and to speak briefly on a given topic using good pronunciation and correct sentence structure. The student is expected to understand simple selections about the geography and culture of French speaking nations. CR 5, YO 9,10,11,12

French 2 (5552) - In the second year, all grammar points and vocabulary introduced in the first year are reinforced. In addition, more complex structures are added in order to prepare students for the next level. The student is presented with a view of many aspects of French culture through reading selections and other methods. CR 5, YO 9,10,11,12, PRE French 1

Honors French 2 (5555) - This course is designed to challenge the student in greater depth than in a regular class. In addition to being responsible for material covered in the regular French class, students are required to write compositions and communicate orally on a more sophisticated level. The pace will be rapid, including a wider range of vocabulary and advanced reading. CR 5, YO 10,11,12, Suggested PRE French 1 with a 90 average and a minimum 85 on the honors level placement exam

French 3 (5553) - In the third year, the student is taught to communicate orally and in writing on a more complex level. Major grammar points and all verb tenses are studied in depth. French 3 offers a wide variety of reading experiences. Culture and major art movements of France are also studied. CR 5, YO 10,11,12, PRE French 2

Honors French 3 (5556) - This course is designed to challenge students in greater depth than in a regular class. In addition to being responsible for material covered in a regular French class, students are required to write longer and more completed compositions and communicate orally on an increasingly sophisticated level. The pace will be more rapid including a wider range of vocabulary and more advanced reading. Culture and major art movements of France are also studied. CR 5, YO 10,11,12, Suggested PRE Honors French 2 (80 average or teacher recommendation), French 2 with a 90 average and a minimum 85 on the honors level placement exam and teacher recommendation

French 4 (5554) - The purpose of this course is to continue the sequence of language study to an advanced level. Grammatical and syntactical improvement will come about in the writing of paragraphs and compositions on selected topics. Opportunity is given for improving speaking and listening comprehension skills. Various French cultures are also studied. CR 5, YO 11,12, PRE French 4 or Honors French 4

Honors French 4 (5557) - The purpose of this course is to continue the sequence of language study to an advanced level. Grammatical and syntactical improvement will come about in the writing of paragraphs and compositions on selected topics. Honors French 4 also presents a variety of novels and short stories to be read and discussed. Opportunity is given for improving speaking and listening comprehension skills. CR 5, YO 11,12, Suggested PRE Honors French 3 (80 average or teacher recommendation), French 3 with a 90 average and a minimum 85 on the honors level placement exam and teacher recommendation

French 5 - Advanced French Communication and Culture (5559) - This course will enable the student to continue the sequence of language study at an advanced level. This course is designed to improve oral and written communication so students can interact successfully in authentic francophone situations. The emphasis will be on oral communication and utilitarian written communication presented and applied in thematic cultural units. Contemporary reading material will be incorporated in order to facilitate natural conversation. CR 5, YO 12, Suggested PRE French 4 or Honors French 4 (80 average or teacher recommendation).

AP French (5558) - Advanced Placement French is offered to students who have completed three years of high school French and who have demonstrated competency in the language. The course will emphasize oral and written abilities in the language. In addition, the reading material will introduce works and writers of French literature to enhance appreciation and

knowledge of the French language. The four skills of language learning will be emphasized; listening, speaking, reading, and writing. There will be a comprehensive study of the structure of the language including a review of the three previous years, and the introduction of advanced language and structure. There will be extensive practice in the various skills required on the Language AP test. CR 5, YO 12, Suggested PRE Honors French 4 (85 average or higher), and teacher recommendation plus summer project required

IB French SL 1 (5599) - This course is designed for students who are continuing French in their third year of high school. This course will explore the French language by examining the countries where French is spoken. Since the oral communication is primary focus in this course, there will be special attention paid to accuracy and fluency in the areas of vocabulary, grammar, pronunciation and annotation. The course will be taught in French as much as possible. At the end of the course, students will be able to communicate with French speakers on everyday topics and social situations. Understand and use the languages in both the spoken and written forms, express personal opinions, and speak spontaneously; understand and use appropriate registers; use advanced grammar and vocabulary appropriately to express themselves; have extensive cultural awareness of France and the Francophone countries. CR 5, YO 11, PRE French 2 or Honors French 2

IB French SL 2 (5600) - This course is designed to prepare students for the IB French Language B standard level examination. Students are invited to appreciate and develop a deeper understanding of French Language and Culture. Students will participate in various activities such as reading of novels, French newspapers, and magazines, listening to live French television, writing essays (diaries, newspapers articles, writing in various formats and projects). Students will exchange discussions, oral presentations, use of target language in class (with teacher and amongst peers), debates and projects (audio, video). This course will offer students maximum communication and interaction opportunities in the four language skills of listening, speaking, reading and writing through the exploration of a wide range of authentic francophone texts. Students will develop spontaneous aural expressions related to daily life and Francophone culture. They will develop the awareness of cultural, social and political issues. The course will allow students to reach a fluency level in writing and speaking. Students will be expected to complete the IB Internal Assessment and the IB exams in May. CR 5, YO 12, PRE IB French SL 1

IB French HL 1 (5601) - French HL students will start their study of language concepts and study representative Francophone writers in the original language independently and in groups. Students are immersed in a culturally rich environment in which they actively participate. They are assessed on effective and accurate communication. Students will be exposed to topics through thematic units and will demonstrate understanding and competence by presenting individual and group projects. Tasks of the advanced language learner include use of the language within and outside of school, information and communication via technology, involvement in activities for personal enrichment and career development - all working to produce a lifelong learner. CR 5, YO 12, PRE French 3 or Honors French 3

IB French HL 2 (5602) - Students will continue their study of language concepts and study representative Francophone writers in the original language independently and in groups. Students are immersed in a culturally rich environment in which they actively participate. They are assessed on effective and accurate communication. Students will be exposed to topics through thematic units and will demonstrate understanding and competence by presenting individual and group projects. Tasks of the advanced language learner include use of the language within and outside of school, information and communication via technology, involvement in activities for personal enrichment and career development - all working to produce a lifelong learner. Students will complete the Internal Assessment and the IB exams during this school year. CR 5, YO 12, PRE IB French HL 1 or IB French SL 1

Spanish 1 (5561) - During the first year, the student is taught to communicate orally and in writing using the fundamental patterns of the language within the constraints of the vocabulary and the language structure mastered. The student is expected to ask and answer questions and to speak briefly on a given topic using good pronunciation and correct sentence structure. The student is expected to understand simple selections about the geography and culture of Spanish speaking nations. CR 5, YO 9,10,11,12

Spanish 1 Immersion (5560) - This class is taught totally in Spanish and is designed for students that are native speakers or fluent non-native speakers. Concentration will be on grammar, reading, writing and expanding vocabulary as well as Hispanic culture, literature and geography. Upon successful completion of this course the student should be able to advance to Honors Spanish 2 or Spanish 3 to be determined by placement testing. CR 5, YO 9,10,11,12, PRE Placement test

Spanish 2 (5562) - In the second year, all grammar points and vocabulary introduced in the first year are reinforced. In addition, more complex structures are added in order to prepare the student for the next level. The student is presented with a view of many aspects of Spanish Hispanic culture through reading selections and other methods. CR 5, YO 9,10,11,12, PRE Spanish 1

Honors Spanish 2 (5566) - This course is designed to challenge the student in greater depth than in a regular class. In addition to being responsible for material covered in the regular Spanish class, students are required to write compositions and communicate orally on a more sophisticated level. The pace will be rapid, and include a wider range of vocabulary and advanced reading. CR 5, YO 10,11,12, Suggested PRE Spanish 1 with a 90 average and a minimum 85 on the final exam

Spanish 3 (5563) - In the third year, the student is taught to communicate orally and in writing on a more complex level. Major grammar points and all verb tenses are studied in depth. Spanish 3 offers a wide variety of reading experiences. This course also includes the study of classic and contemporary Hispanic culture and civilization. CR 5, YO 10,11,12, Suggested PRE Spanish 2 with a 75 average and a minimum of 75 on the final exam or teacher recommendation

Honors Spanish 3 (5567) - This course is designed to challenge the student in greater depth than in a regular class. In addition to being responsible for material covered in a regular Spanish class, students are required to write longer and more complex compositions and communicate orally on an increasingly sophisticated level. The pace will be more rapid and include a wider range of vocabulary and more advanced reading. CR 5, YO 10,11,12, Suggested PRE Honors Spanish 2, with a 90 average and a minimum 85 on the final exam or teacher recommendation

Spanish 4 (5564) - The purpose of this course is to continue the sequence of language study to an advanced level. Grammatical and syntactical improvement will come about in the writing of paragraphs and compositions on selected topics. Opportunity is given for improving speaking and listening comprehension skills. Various Hispanic cultures are also studied. CR 5, YO 11,12, Suggested PRE Spanish 3 or Honors Spanish 3 with a 75 average and a minimum of 75 on the final exam or teacher recommendation

Honors Spanish 4 (5568) - The purpose of this course continues the sequence of language study to an advanced level. Grammatical and syntactical improvement will come about in the writing of paragraphs and compositions on selected topics. Honors Spanish 4 also presents a variety of novels and short stories to be read and discussed. Opportunity is given for improving speaking and listening comprehension skills. Culture and major art movements of Spain and other Spanish-speaking countries are also studied. CR 5, YO 10,11,12, Suggested PRE Honors Spanish 3, with a 90 average and a minimum 85 on the final exam or teacher recommendation

AP Spanish (5569) - Advanced Placement Spanish is offered to students who have completed three years of high school Spanish and who have demonstrated competency in the language. The course will emphasize oral and written abilities in the language. In addition, the reading material will introduce works and writers of Spanish literature to enhance appreciation and knowledge of the Spanish language. The four skills of language learning will be emphasized; listening, speaking, reading, and writing. There will be a comprehensive study of the structure of the language including a review of the three previous years, and the introduction of advanced language and structure. There will be extensive practice in the various skills required on the Language AP test. CR 5, YO 12, Suggested PRE Honors Spanish 4 with an 85 average and a minimum 85 on the final exam or teacher recommendation

IB Spanish HL 1 (5592) - The course will emphasize written and oral abilities in the language. In addition, the reading material will introduce students to Spanish writers and their works of literature to enhance appreciation, as well as knowledge of the Spanish language. The proficiencies of comprehending, speaking, reading, and writing Spanish will be demonstrated through the rigors of the IB examination. There will be a comprehensive study of the structure of the Spanish language and the introduction of advanced language and structure. The course will be conducted exclusively in Spanish, and students will be encouraged to use Spanish as much as possible in real world settings. Students should be able to express themselves orally by convincing, arguing, inquiring, describing and debating in a variety of situations and using different strategies. CR 5, YO 11, PRE Honors Spanish 3 or Spanish 3

IB Spanish HL 2 (5593) - This course will continue the study of language concepts and study representative writers in the original language independently and in groups. Students are immersed in a culturally rich environment in which they actively participate. They are assessed on effective and accurate communication. Tasks of the advanced language learner include use of the language within and outside of school, information and communication via technology, involvement in activities for personal enrichment and career development - all working to produce a lifelong learner. To achieve an appreciation and understanding of cultures, there will be interactive endeavors and a culturally rich environment where their ability to communicate effectively and accurately play an essential role. Students will be exposed to topics through thematic units and will demonstrate understanding and competence by presenting individual and group projects. Students will be expected to complete the IB Internal Assessment and the IB exams in May. CR 5, YO 12, PRE IB Spanish HL 1

Latin 1 (5571) - The primary goals of this course are to enable the student to read Latin sentences and narratives, to achieve accuracy in translating Latin to English and English to Latin, and to expand your knowledge of English vocabulary

by using Latin. Students will understand how Romans thought and lived in the Roman Empire some two thousand years ago, with special attention to the ways they continue to influence our lives today. Study will include the ancient Roman myths, the institution of slavery, construction of houses, villas, and apartments, Roman graffiti, etc. Students can also expect their knowledge of English grammar to improve as a result of taking this course. Regular practice and study at home is expected throughout this course. CR 5, YO 9,10,11,12

Latin 2 (5572) - This course continues to build a student's mastery of vocabulary and grammar structures within the context of a narrative about the Corneli family and their journey through Italy. By the end of this course, students will have mastered all five noun families (declensions), the four verb conjugations (active and passive). Roman culture and history topics include Roman sports, baths, education, recipes, religion and funeral customs, as well as a look at the collapse of the Roman Republic under the stress of civil wars. Regular study and practice at home is expected of all students. CR 5, YO 9,10,11,12, PRE Latin 1

Honors Latin 2 (5573) - This course is an accelerated version of Latin 2, preparing students to read actual Latin literature by the end of Latin 3. Students are expected to keep pace with regular homework. As in Latin 1, attention is given to the connections of Latin and English— how Latin continues to influence modern European and American culture. CR 5, YO 9,10,11,12, Suggested PRE Latin 1 with a 90 average or teacher recommendation

Honors Latin 3 (5574) - This advanced level course completes the study of grammar needed to read actual Latin authors writing in the later Republican and Imperial periods. Considerable emphasis is placed upon accurate translation from Latin to English and occasional Latin compositions. The history of the late Republic and early Empire is closely studied in order to make sense of the writings from these time periods. CR 5, YO 10,11,12, Suggested PRE Honors Latin 2, Latin 2, with a 90 average or teacher recommendation

Honors Latin 4 (5575) - This course will examine, in detail, two different authors from the Republican or Augustan eras from the following: Catullus, Cicero, Ovid, Vergil, or Horace. Students will be expected to have a strong background in grammar, but new emphasis will be directed towards understanding the varieties of style in which these authors write. Detailed study of poetic meters, figures of speech and word choice form the basis of this study. CR 5, YO 11,12, Suggested PRE Honors Latin 3, 90 average or teacher recommendation

AP Latin (5576) - This course will allow students to study, in more depth, selected Roman authors. A strong background in grammar is required and considerable concentration will be placed on selected authors and their works. Students will review and be tested on the AP exam format and must take the AP exam in May. CR 5, YO 12, Suggested PRE Honors Latin 3, with teacher recommendation or Latin 4 (85 average or higher), plus summer project

IB Latin HL 1 (5596) - IB Latin HL is the fourth and final year Latin course which will follow the Latin SL class in the junior year. Latin HL is a continuation of Latin SL with an expectation of an increasing proficiency in translating Latin and the ability to comment on the Latin with a greater degree of sophistication. The students will continue to use Latin to support all of their answers. The students will increase their intimate knowledge of Latin authors with the addition of the prescribed author, Ovid, and an even closer look at Catullus than is expected by the IB exams. Students will continue to be expected to demonstrate knowledge of the Classical influences on later cultures in the world. In conjunction with the Theory of Knowledge class, the students will strive to understand how the Romans perceived the world which is different than the viewpoint of a modern reader. CR 5, YO 12, PRE IB Latin SL

IB Latin HL 2 (5597) - This course is the second year of the HL curriculum and there will be an expectation of an increasing level of proficiency in translating Latin and the ability to comment on the Latin with a greater degree of sophistication. The students will continue to use Latin to support all of their answers. The students will increase their intimate knowledge of Latin authors with the addition of the prescribed author, Ovid, and an even closer look at Catullus than is expected by the IB exams. Students will continue to be expected to demonstrate knowledge of the Classical influences on later cultures in the world. In conjunction with the Theory of Knowledge class, the students will strive to understand how the Romans perceived the world which is different than the viewpoint of a modern reader. CR 5, YO 12, PRE IB Latin SL or IB Latin HL

IB Latin SL (5598) - Latin SL will be the third year of Latin taken in the junior year of students who started Latin in their freshmen year or for seniors who started Latin in their sophomore year. The goal of Latin SL is for the students to be able to translate with accuracy the Latin writers Ovid, Catullus, Horace, and Virgil. The students will also have a special focus on Ovid, as the prescribed author. The students will also be expected to be intimately familiar with the politics, history, art, and society of the Romans in the late republic and early empire and with a more general knowledge of the later Roman Empire. The students will be able to take this knowledge of the Romans and be able to demonstrate the Roman influences on later civilizations throughout the world. In conjunction with the Theory of Knowledge class, the students will strive to

understand how the Romans perceived the world which is different than the viewpoint of a modern reader. CR 5, YO 11, PRE Latin 2 or Honors Latin 2

Chinese 1 (5580) - During the first year, the student is taught to communicate orally and in writing using modern standard Mandarin and Pinyin transcription. The student is expected to ask and answer questions and to speak briefly on a given topic using good pronunciation and correct sentence structure. The student is expected to understand simple selections about the geography and culture of Chinese speaking nations. CR 5, YO 9,10,11,12

Chinese 2 (5581) - In the second year, students will continue the development of language skills, listening, speaking, reading and writing in Mandarin Chinese. This course maximizes the acquisition of comprehension and speaking skills necessary for practical and effective communication through hands on activities. Students will fully explore aspects of the Chinese language, be challenged to communicate with a higher level of accuracy, and be exposed to more diversified and expansive usage of the Chinese language. The understanding and appreciation of the Chinese people and their culture form an integral part of this course. CR 5, YO 9,10,11,12, PRE Chinese 1

Chinese 3 (5582) - In the third year, the student is taught to communicate orally and in writing on a more complex level. Students will continue the development of language skills, listening, speaking, reading and writing in Mandarin Chinese. This course continues to maximize the acquisition of comprehension and speaking skills necessary for practical and effective communication through hands on activities. Students will fully explore aspects of the Chinese language, be challenged to communicate with an even higher level of accuracy, and be exposed to more diversified and expansive usage of the Chinese language. This course also includes the study of classic and contemporary Chinese culture, art and civilization. CR 5, YO 10,11,12, PRE Chinese 2

Chinese 4 (5583) - The purpose of this course is to continue the sequence of language study to an advanced level. Students will continue the development of language skills, listening, speaking, reading and writing in Mandarin Chinese. Opportunity is given to maximize the acquisition of comprehension and speaking skills necessary for practical and effective communication through hands on activities. This course continues the study of classic and contemporary Chinese culture, art and civilization. CR 5, YO 11,12, PRE Chinese 3

3.24 COMPUTER APPLICATIONS

Web Page Design 1 (6627) - This semester course will focus on the three basic design concepts for a Web site: information design (how to structure information); programming design (getting the site to function), and visual design (what the site will look like). A commonsense approach to design fundamentals will demonstrate how the Web homepage is a practical tool designed to capture and inform an audience. Students will be able to design their web pages using Macromedia Dreamweaver and add animations to them using Macromedia Flash and Fireworks. CR 2.5, YO 10,11,12

Web Design 2 (6628) - Students will learn the most important topics of HTML including creating multimedia Web pages with hypertext links, tables, frames, forms and cascading style sheets. Students will learn the basics of XML including creating XML documents and binding data. Students will design and develop wireless web pages using XHTML and WML. CR 2.5, YO 10,11,12, PRE Web Page Design 1

Web and Mobile Application Development (6645) - In this course the students will be creating applications to be used on the Internet. Students will be learning to create databases and create applications to store and access information in the database. Students will also be learning the CSS involved in making web applications available on mobile devices. Last the focus will be on creating applications for both the iPhone and Droid smart phones. Students will be continuing on in their studies of and analysis of Data Structures while learning how to create Web and Mobile applications. CR 5, YO 12, PRE APCS A/ IBCS SL, Supervisor and Teacher Recommendation

Digital Photography (6660) - This introductory course will familiarize the student with the basic principles and concepts of digital photography. Units of study consist of principles of light, black and white photography, principles of design. Students will develop proficiency in the areas of digital photography, Adobe Photoshop software, and other photo related computer enhancements. CR 5, YO 10,11,12

Digital Literacy (IC3)* (6665) - Using project-based instruction and hands-on labs, this course will give students the technology competencies to be successful at college or work. The course provides an overview of information technology and develops mastery in two IC3 modules: Key applications and Living Online. The Key Applications module concentrates on acquiring expertise in file management, word processing, spreadsheet functions and presentation applications. The Living Online module addresses methods for effectively and safely accessing online information. Students will develop advanced skills in Internet research and will also consider contemporary issues such as netiquette, privacy, and ethical use of digital content. Completion of this course + Intro to Computer Systems will meet the requirements to take the IC3 Certification exam. CR 2.5, YO 9,10,11,12 - matching year course should be Financial Literacy

*Internet and Computing Core Certification (IC3) program is a validated standards-based training and certification program for basic computing and Internet knowledge and skills. Successful completion of IC3 ensures you have the knowledge and skills required for basic use of computer hardware, software, networks, and the Internet.

3.25 APPLIED TECHNOLOGY EDUCATION

Program Profile: Applied Technology courses offer students the opportunity to learn by doing with hands on learning. Applied Technology courses are organized around technology learning activities that force students to use their knowledge from math, science, social studies and English to solve real world type problems. The technology design and problem solving process is used to allow students to organize their efforts and be able to create original ideas, solutions and prototypes in solving the problems posed in the activities.

Prototype Design (6650) - The Prototype Design course was developed as a Technology Education course. It is designed so that students may blend the creative design process with realistic problem-solving activities, giving them an opportunity to fully realize ideas. The main intent is to help students discover their place on the engineering team and to determine if their aptitudes and interests were in the realm of the scientist, the engineer, the technician, or the craftsperson. Projects relating to several engineering fields are included so students may experience different roles within the team. The half year course content is organized around several themes; the engineering team; the process of design; technical communications; materials science; modeling processes and prototyping, and realistic design projects. In addition, students experience and apply the engineering process to stimulate career awareness. CR 2.5, YO 9,10,11,12

Transportation Technology (6651) - This course emphasizes the evolution of transportation technology. This is accomplished through activities in the lab that engage students in first hand, activity oriented experiences with technology. The course acquaints students with Air, Sea and Land transportation systems along with related technological career options. An interdisciplinary incorporation of science and math is an integral component in teaching Transportation Technology. Transportation Technology consists of seven units of study: Internal Combustion Engine, Air Transportation, Space Transportation, Water Transportation, Land Transportation, Future Transportation and the Six Vehicle Systems. Appropriate personal and equipment safety instructions are provided. CR 5, YO 10,11,12, PRE Prototype Design or other Technology course

Invention and Innovation (6652) - The course Invention and Innovation will focus around the process involved in the development of technological products from idea to manufactured product. Through the use of technology learning activities, students will incorporate skills from all subjects to solve real-world problems by developing actual product prototypes! Units of study would include areas in Product Research and Development, Materials Science, Manufacturing, Invention/Innovation, Package Design, Patents, Manufacturing History, and Environmental Impacts of Manufacturing Innovation. CR 5, YO 10,11,12, PRE Prototype Design or other Technology course

Computer Aided Design (CAD) (6653) - Using different drawing methods, students learn the language of drawing and how to put their ideas to paper. Cutting edge Auto-Desk software is used to allow students to design in 2D or 3D and gives the students the ability to solve design problems. The course is designed for students who have interests in areas such as engineering, interior design, architecture, computer animation, industrial design, and illustration. CR 5, YO 9,10,11,12, PRE Concurrent enrollment in Geometry

Women in Engineering (6654) - This course will provide students with knowledge of various fields of engineering and experiences with the engineering process through participation in problem solving and design activities. Studying areas of engineering and then applying the engineering process in order to solve real life problems will provide students with a better understanding of how real world situations are addressed. Many speakers will help motivate the students to consider engineering as a career goal. CR 5, YO 10,11,12, PRE Prototype Design with a passing grade of 80

3.26 VISUAL AND PERFORMING ARTS ELECTIVES

Curriculum Scope and Sequence of Visual & Performing Art Electives

Never played an instrument before? Consider one of these Music Electives Concert Choir, Introduction to Piano, Beginning Strings, Introduction to Harp, Extra Curricular Band (after school program), Music Theory 1.

AP Art History (7709) - This course analyzes and discusses art from prehistoric cave painting to modern art exhibited today, emphasizing the historical context in which art is created. We shall consider not only the artists and works they produce, but style, purpose, and patronage of art through the ages. Alongside the traditional focus upon art in the European tradition the AP curriculum; Students will also examine non-European art and its characteristics, including art from China, India, Meso-America, and Africa. The goal of this course is to achieve understanding of all these visual arts in preparation for the AP exam in May. Summer work (reading, project, paper) may be assigned by the instructor to prepare students for the course. CR 5, YO 11,12, Suggested PRE 80 overall GPA, Summer project/paper on an Art Historical Topic assigned by instructor

AP Music Theory (7778) - This is an advanced course for the student planning to continue music study in college or music school. It will prepare students for the AP Music Theory exam, which they must take in May. Topics covered include chord constructions, chord analysis, musical forms, ear training, and dictation. CR 5, YO 11,12. Suggested PRE completed VPA Musicianship, Music Theory Elective 2, Permission of the Instructor

Art 1 (7700) - This is an introductory art course with an emphasis on design and color concepts. Using a variety of subject matter, students will study design and composition in painting, drawing and mixed media. Students will also be exposed to art history, criticism and aesthetics. This course may include trips to museums, galleries and arts events in order to develop an understanding of connections with other subject areas as stated in the NJ Core Curricular Content Standards. CR 5, YO 9,10,11,12

Art 2 (7701) - In this course, the second year art student will experience a variety of artistic media and techniques in a wide range of subject matter. Emphasis is placed on individual expressive skills in areas such as painting, cartooning, printmaking, and study of the human figure. Students will continue to be exposed to art history, criticism and aesthetics. This course may include trips to museums, galleries and arts events in order to develop an understanding of connections with other subject areas as stated in the NJ Core Curricular Content Standards. CR 5, YO 10,11,12, PRE Art 1

Art 3 (7702) - This advanced art course explores, through various projects, theories and techniques: sculpture, graphics and painting. The student is encouraged to develop an individual style. Further exploration of art history, criticism and aesthetics is part of the curriculum. Juniors who are interested in developing portfolios for their senior year will begin to do so in the second semester. This course may include trips to museums, galleries and arts events in order to develop an understanding of connections with other subject areas as stated in the NJ Core Curricular Content Standards. CR 5, YO 11,12, PRE Art 2

Art 4 (7703) - This art course is designed for the more advanced student who chooses to specialize in two and three-dimensional media. Special emphasis is given to seniors who are in the process of preparing a portfolio for entrance into a college or university. This course may include trips to museums, galleries and art events in order to develop an understanding of connections with other subject areas as stated in the NJ Core Curricular Content Standards. CR 5, YO 12, PRE Art 3

Avant-garde Art (2208) - This semester course in mixed media art will explore many types of fiber arts and collage work. Some of the themes developed will include assemblage, altered books, visual art journals, fabric and paper constructions, stamping and faux finishes. Students need not have any art or sewing experience to attend but it would be helpful. CR 2.5, YO 9, 10, 11, 12

Beginning Strings (7724) - This class is for any student who wants to learn violin, viola, cello, or double bass. It is a beginning course focusing on technique, solo and ensemble playing. CR 5, YO 9,10,11,12

Concert Choir (7775) - This is a general choral ensemble open to all students. No previous training is necessary. Students sing during each class period in preparation for required concerts, assemblies, and competitions. Basic musicianship skills and aesthetics are developed through study of various styles and periods of choral music. This is a performance-based class and includes field trips and concerts which will be reflected in students' grades. Students can request and receive credit for this course each year. Embedded in the program is an "honors option" which may reward students for meeting established criteria. Students who complete work at this level may be eligible for honors credit and a five point honors weight on their final averages. CR 5, YO 9,10,11,12

Conditioning for Dance (7808) - This is a semester course in which participants will participate in a strength, flexibility, and cardiovascular conditioning class. Pilates, weight training, yoga and cardio-dance will be explored. This course is for dancers, athletes, or anyone looking to improve their physical fitness level. CR 2.5, YO 9, 10, 11, 12

Crafts 1 (7704) - This class introduces the students to hand building art. The students begin to explore a variety of materials and how to manipulate them in a variety of projects. The students will learn the importance of good craftsmanship and that crafts is the foundation of engineering and mass production. Projects incorporate science, math, culture and more. All projects at level 1 incorporate the elements of art and design, color theory, current events, history, fine art, reading, writing and research for idea and production development. The students will be expected to work in groups as well as individually depending on the project. This class is ideal not only for the experienced artist but also the student who is just beginning. The students will complete this course with a variety of projects which are practical and functional. CR 5, YO 10,11,12

Crafts 2 (7705) - This class is for the student who has taken Crafts 1 and has developed an appreciation for hand building art. In level 2, the students will advance their understanding of materials explored in level 1. Projects will be more demanding of control, focus and time. The projects in level 2 will challenge the students to fine tune their skills, move to different materials and begin to understand how they can create product which could turn into a business - crafts as a career. CR 5, YO 11,12, PRE Crafts 1

Dance Elective (7764) - This is a semester course to introduce the student to the elements of formal dance training. Student will learn a variety of styles including ballet, jazz, modern and hip-hop. No experience is needed. Students can request and receive credit for this course each year. CR 2.5, YO 9,10,11,12

Digital Design (7802) - Digital Design is a combination of Digital Photography and Design in a full year class. The class will focus heavily on the digital art world and the prominent programs used in the industry – Photoshop, InDesign, Illustrator. The students will learn traditional photography – camera settings, composition, and editing. Photoshop will be introduced only as an editing tool first, then as a conceptual tool. The students will begin to see how commercial art is the vehicle used in advertising, publishing, web, animation and more for all industries from medical to music to fashion. Semester Two will focus on InDesign and Illustrator – two more major adobe design programs. The students will combine their photos and designs together in layout while learning about typography and concept building and the difference between publishing and the web. Media, designers and photographers will be discussed. CR 5, YO 9,10,11,12 (Pending Board approval)

Fine Arts Appreciation (7725) - This is a full year course designed for the student who wants to learn how the arts (music, drama, dance, literature, and the visual arts) developed throughout history. Students will look at the events and practices of the day and see how it affected the works of composers, writers, choreographers and artists from the Early, Medieval, Renaissance, Baroque, Classical, Romantic, Impressionistic, Modern and current periods. The course is designed to help student's correlate historical knowledge and styles to their own personal repertoire. This is the keystone course for the Inter-Disciplinary Arts SLC and it will satisfy 2.5 credits toward the 21st Century Life and Careers requirement. CR 5, YO 10

Guitar (7803) - Guitar class is a semester course for both students who would like to learn how to play guitar and students who already know how to play. The class will examine both strumming and plectrum techniques in various genres of music. Alternative String instruments, such as mandolin and electric strings, will be explored. Some basic music theory will be introduced throughout this performance-based course. Class size is limited to the number of instruments available (12). CR 2.5, YO 9, 10, 11, 12

IB Visual Arts HL 1 (7800) - This higher level Visual Arts course is for a student who has a serious interest in art and willing to approach art with an open mind. The purpose of this course is to allow students to explore and experiment with different visual art forms emphasizing not only a personal approach but that of other cultures. Art is a universal form of communication that is not reserved for just a few people or limited to just a few art forms. For the same reason, the focus of this class will be to encourage students to investigate, inquire and experiment with artistic approaches used by different cultures, not only in terms of media but also in concept. CR 5, YO 11, PRE Commercial Art 2

IB Visual Arts HL 2 (7801) - In the second year of IB Visual Arts HL students will continue their art exploration from a global and personal perspective but concentrating in the creation of art based on their own artistic calling and the influences they have taken from the research done the previous year. Students are expected to create pieces of art to be shown in an exhibit taking place in mid March, as well as photographing work done in the Research Work Book (RWB). All these will be reviewed and sent to IB International for scoring. CR 5, YO 12, PRE IB Visual Arts 1

Introduction to Harp (7730) - This course is for any student who would like to learn to play the harm or would like to

play with other harpists. Reading notes and other aspects of music will be covered. Students will play all styles of music. Students can request and receive credit for this course each year. CR 5, YO 9, 10, 11, 12

Introduction to Piano (7789) - This course is for any student who does not read music but would like to learn to play piano. Students will learn basic piano technique, how to read music, play chords, and play music of all styles. CR 5, YO 9,10,11,12

Music Industry (7804) - is a semester course that examines the growth and development of the popular contemporary music industry. Students will study Pop/Rock history with a special focus on the commercial music industry's influence on traditional western styles and 21st century musical tastes. This course includes an introduction to the recording industry and works with some music technology, such as ProTools. Careers in the music business will also be covered. CR 2.5, YO 9, 10, 11, 12

Musical Theatre (7805) - This semester course is a performance-based class that introduces students to basic techniques necessary in auditioning for and performance in Broadway-style productions. Students will be asked to sing, act and dance as a part of this course. Theatre history, critique of performances and mock auditions are all included. The course may include guest artists and field trips. CR 2.5, YO 9, 10, 11, 12

Music Theory 1 (7776) - This course is for the student who would like to learn to read and write music and increase their musical knowledge and vocabulary. The curriculum covers basics of music theory, ear training, and sight singing. The material is applied to various instruments, giving students the opportunity to perform. CR 5, YO 9,10,11,12

Music Theory 2 (7777) - This course is for the student who has successfully completed Music Theory 1 to continue an advanced study of music theory through composition, counterpoint and analysis. This course is for the student who already possesses basic music reading skills. Each student will write, sing, or play music as well as discover mathematical relationships in music. This is an excellent class for the student who performs or plans a career in music. Guest artists and field trips may be included. CR 5, YO 10,11,12, PRE Music Theory 1

Orchestra (7750) - This is a general orchestra ensemble open to all students that play violin, viola, cello, bass or harp. It is also required by all VPA String Majors. Students study repertoire for string orchestra and full orchestra in preparation for required concerts, assemblies, and festivals. Basic musicianship skills and aesthetics are developed through study of various styles and periods of orchestra music. This is a performance-based class and includes guest artists, master classes, field trips, concerts, and participation in after school Orchestra which will be reflected in students' grades. Students can request and receive credit for this course each year. Embedded in the program is an "honors option" which may reward students for meeting established criteria. Students who complete work at this level may be eligible for honors credit and a five point honors weight on their final averages. CR 5, YO 9,10,11,12, PRE ability to play a string instrument

Percussion Ensemble (7719) - This performing ensemble is for students with previous experience with orchestral percussion instruments. The ensemble performs at both the winter and spring band concerts. Students must be able to read music. CR 5, YO 9,10,11,12 PRE ability to play a percussion instrument and read music

Piano Elective (7784) - This course is designed to allow the student already able to read music to improve their existing piano skills or gain new skills in pop, Broadway, or classical styles. The course is tailored to the individual needs and ability levels of each student. Students are assigned repertoire and workbooks as well as piano technique exercises. Students can request and receive credit for this course each year. CR 5, YO 9,10,11,12, PRE demonstrates ability to read music or has taken Music Theory 1

RBR Band (7718) - This is a general band ensemble open to all students that play a brass, woodwind, or percussion instrument. This course is also required by all VPA Instrumental Woodwind, Brass or Percussion Majors. Students rehearse concert repertoire to prepare for community and school events, concerts, and festivals. Basic musicianship skills are developed through the study of various styles and periods of instrumental music. This is a performance-based class and includes field trips and concerts which will be reflected in students' grades. All freshmen are encouraged to participate in extracurricular RBR Marching Band. Students can request and receive credit for this course each year. Embedded in the program is an "honors option" which may reward students for meeting established criteria. Students who complete work at this level may be eligible for honors credit and a five point honors weight on their final averages. CR 5, YO 9,10,11,12, PRE ability to play a band instrument

Supplement (2.5 credits): Students that successfully participate in the RBR Marching Band or Color Guard will receive an extra 2.5 credits for this extra-curricular activity. The RBR Marching Band will perform at football games, community

events, and marching festivals and competitions. Weekly summer rehearsals and a one week band camp (during the month of August) will be held.

Songwriting (7806) - This semester course is for students interested in learning the craft and techniques of contemporary songwriting. Lyricists, rappers, musicians, vocalists and music enthusiasts are welcome. No prior music theory or instrumental experience is necessary; however, it would be helpful. All styles and genres of music will be considered for study. Some basic music theory will be introduced throughout this course. CR 2.5, YO 9, 10, 11, 12

Stage Technology (6655) - This is a full year course emphasizing the basics of stage design and development. This course is required by all Drama Majors prior to their senior year. Activities will include knowledge of safety, and the use of tools and equipment necessary for set design, scenic painting and construction, and exploration of careers. Students will be taught the basics of stage lighting and the use of sound equipment. Students will be required to construct a complete set for both the fall and spring theatre production. After-school, nights, and weekends attendance might be mandatory during construction of sets and/or during performances. They will also be expected to assist in various concerts throughout the school year which will also require some after-school, nights, and weekend attendance. A portion of the Stage Technology Grading System will be determined by the student's out-of-class participation at assigned performances. Students should have some background in performing arts or technology related instruction. CR 5, YO 10,11 PRE Prototype Design, or a Technology related course, or one year of a visual or performing arts course

Theatre Elective (7769) - This is a full year course designed to introduce the student to the Theatre. This course introduces the Student to various aspects of theatre such as stage set design, set construction, scenic painting, stage lighting, sound, and theatre history, as well as performance techniques. Students will be required to perform during class. Course work is augmented by guest artists, productions, and field trips. No prior experience is needed. Students can request and receive credit for this course each year. CR 5, YO 9,10,11,12

Yoga Elective (7807) - This semester course is a traditional Hatha yoga class in which yoga postures are studied and performed uniting breathing, movement, warming the whole body and providing the opportunity to apply alignment to movement. The class also includes a guided meditation. This class will strengthen and elongate muscles, will help to develop self awareness and will soothe the participant, bringing calmness and clarity of thought. CR 2.5, YO 9, 10, 11, 12

3.27 INTERNATIONAL BACCALAUREATE PROGRAM

The International Baccalaureate (IB) Program is a rigorous and comprehensive pre-university course of studies designed to expose motivated high school students to a challenging, innovative, and well-balanced academic program; coursework in the 11th and 12th grade years culminates in a series of examinations leading to an IB Diploma. Full IB Diploma Students will take courses in English, World Language, History or Psychology, Science, Math, and in the Arts. The student can elect to forgo the Arts class and take a second Language, History, or Science course. Students must take at least three and no more than four courses at the Higher Level (HL). The rest of the classes will be taken at the Standard Level (SL). Courses in the program are also open to interested students who do not wish to attempt the entire diploma program. All IB Diploma students must complete three compulsory elements: an interdisciplinary Theory of Knowledge course, a Creativity-Action-Service (CAS) component, and a sustained, 4,000 word independent essay on a topic of their choice. IB candidates experience high-interest coursework, regularly practicing critical thinking skills, encountering activity-based academic situations, and, ultimately, gain an edge for college admissions. For more information please contact the IB Coordinator Katie Blackwell at kblackwell@rbrhs.org or (732) 842-8000 ext. 311.

	Pre IB Grade 9	Pre IB Grade 10	IB Year 1 Grade 11	IB Year 2 Grade 12
Group 1 Language	English 1	Honors English 2 English 2 CP	IB English HL 1	IB English HL 2
Group 2 Second Language	Spanish 2 Honors Spanish 2 Spanish 1 French 1 Latin 1	Spanish 3 Honors Spanish 3 Spanish 2 Honors Spanish 2 French 2 Honors French 2 Honors Latin 2 Latin 2 Latin 1	IB Spanish HL 1 Honors Spanish 3 IB French SL 1 IB Latin HL 1 Honors Latin 2	IB Spanish HL 2 Honors Spanish 4 IB French SL 2 IB Latin HL 2 IB Latin SL
Group 3 Individuals and Societies	Global Studies	Honors US History 1 US History 1 CP	IB History of the Americas HL 1 IB History of Europe HL 1 IB Psychology SL*	IB History of the Americas HL 2 IB History of Europe HL 2
Group 4 Experimental Sciences	Biology Exploratory Science	Honors Chemistry/ Chemistry CP Biology	IB Biology SL IB Environmental Systems and Society	IB Biology SL IB Environmental Systems and Society or any other science offered
Group 5 Mathematics	Algebra 1 Geometry Honors Algebra 2	Algebra 2 and Geometry Honors Algebra 2 or Algebra 2 Honors Pre-Calculus Pre-Calculus	IB Math Studies SL* Pre-Calculus Honors Pre-Calculus Pre-Calculus IB Math HL 1*	IB Math Studies SL* Calculus AP Statistics Statistics Applied/Discrete Math IB Math Studies SL* IB Math HL 2* AP Calculus AB AP Statistics Statistics
Group 6 The Arts	Commercial Art 1	Commercial Art 2	IB Visual Arts HL 1	IB Visual Arts HL 2
Core IB course for Diploma Students				IB Theory of Knowledge

Course Descriptions

Group 1-Language

IB English HL (1121) - Course Objectives: With an intense focus on reading, writing, and literary analysis, IB English HL develops students' critical thinking skills and encourages their academic independence and awareness of their international inter-connectedness. A rigorous pre-university course of study, English A1 HL is designed as a comprehensive two-year curriculum that both feeds into and complements the overall interdisciplinary learning of the IB Program. In all, the aim of the course is to develop in students a keen awareness of the artistic and human complexities that are part and parcel of the creation and critiquing of literature, and to encourage within each student the understanding that artistic endeavors undertaken in any society, and the appreciation of those endeavors, unifies us as a species. CR 5, YO 11, PRE English 2

IB English HL 2 (1122) - IB English HL 2 is the second year of a two-year International Baccalaureate diploma program. The IB program focuses on close reading of works combined with a greater awareness of texts' global context. In addition to summer reading, we will read four major works in translation, analyzing how each author uses language to enhance meaning. The first year course culminates in a 10-15 minute oral presentation and an extended essay analyzing two of the international works in comparison. Students will complete the IB English exams at the end of the year. CR 5, YO 12, PRE IB English HL

Group 2- Second Language

IB French SL 1 (5599) - This course is designed for students who are continuing French in their third year of high school. This course will explore the French language by examining the countries where French is spoken. Since the oral communication is primary focus in this course, there will be special attention paid to accuracy and fluency in the areas of vocabulary, grammar, pronunciation and annotation. The course will be taught in French as much as possible. At the end of the course, students will be able to communicate with French speakers on everyday topics and social situations. Understand and use the languages in both the spoken and written forms, express personal opinions, and speak spontaneously; understand and use appropriate registers; use advanced grammar and vocabulary appropriately to express themselves; have extensive cultural awareness of France and the Francophone countries. CR 5, YO 11, PRE French 2 or Honors French 2

IB French SL 2 (5600) - This course is designed to prepare students for the IB French Language B standard level examination. Students are invited to appreciate and develop a deeper understanding of French Language and Culture. Students will participate in various activities such as reading of novels, French newspapers, and magazines, listening to live French television, writing essays (diaries, newspapers articles, writing in various formats and projects). Students will exchange discussions, oral presentations, use of target language in class (with teacher and amongst peers), debates and projects (audio, video). This course will offer students maximum communication and interaction opportunities in the four language skills of listening, speaking, reading and writing through the exploration of a wide range of authentic francophone texts. Students will develop spontaneous aural expressions related to daily life and Francophone culture. They will develop the awareness of cultural, social and political issues. The course will allow students to reach a fluency level in writing and speaking. Students will be expected to complete the IB Internal Assessment and the IB exams in May. CR 5, YO 12, PRE IB French SL 1

IB French HL 1 (5601) - French HL students will start their study of language concepts and study representative Francophone writers in the original language independently and in groups. Students are immersed in a culturally rich environment in which they actively participate. They are assessed on effective and accurate communication. Students will be exposed to topics through thematic units and will demonstrate understanding and competence by presenting individual and group projects. Tasks of the advanced language learner include use of the language within and outside of school, information and communication via technology, involvement in activities for personal enrichment and career development - all working to produce a lifelong learner. CR 5, YO 12, PRE French 3 or Honors French 3

IB French HL 2 (5602) - Students will continue their study of language concepts and study representative Francophone writers in the original language independently and in groups. Students are immersed in a culturally rich environment in which they actively participate. They are assessed on effective and accurate communication. Students will be exposed to topics through thematic units and will demonstrate understanding and competence by presenting individual and group projects. Tasks of the advanced language learner include use of the language within and outside of school, information and communication via technology, involvement in activities for personal enrichment and career development - all working to produce a lifelong learner. Students will complete the Internal Assessment and the IB exams during this school year. CR 5, YO 12, PRE IB French HL 1 or IB French SL 1

IB Spanish HL 1 (5592) - The course will emphasize written and oral abilities in the language. In addition, the reading material will introduce students to Spanish writers and their works of literature to enhance appreciation, as well as knowledge

of the Spanish language. The proficiencies of comprehending, speaking, reading, and writing Spanish will be demonstrated through the rigors of the IB examination. There will be a comprehensive study of the structure of the Spanish language and the introduction of advanced language and structure. The course will be conducted exclusively in Spanish, and students will be encouraged to use Spanish as much as possible in real world settings. Students should be able to express themselves orally by convincing, arguing, inquiring, describing and debating in a variety of situations and using different strategies. CR 5, YO 11, PRE Honors Spanish 3 or Spanish 3

IB Spanish HL 2 (5593) - This course will continue the study of language concepts and study representative writers in the original language independently and in groups. Students are immersed in a culturally rich environment in which they actively participate. They are assessed on effective and accurate communication. Tasks of the advanced language learner include use of the language within and outside of school, information and communication via technology, involvement in activities for personal enrichment and career development - all working to produce a lifelong learner. To achieve an appreciation and understanding of cultures, there will be interactive endeavors and a culturally rich environment where their ability to communicate effectively and accurately play an essential role. Students will be exposed to topics through thematic units and will demonstrate understanding and competence by presenting individual and group projects. Students will be expected to complete the IB Internal Assessment and the IB exams in May. CR 5, YO 12, PRE IB Spanish HL 1

IB Latin HL 1 (5596) - IB Latin HL is the fourth and final year Latin course which will follow the Latin SL class in the junior year. Latin HL is a continuation of Latin SL with an expectation of an increasing proficiency in translating Latin and the ability to comment on the Latin with a greater degree of sophistication. The students will continue to use Latin to support all of their answers. The students will increase their intimate knowledge of Latin authors with the addition of the prescribed author, Ovid, and an even closer look at Catullus than is expected by the IB exams. Students will continue to be expected to demonstrate knowledge of the Classical influences on later cultures in the world. In conjunction with the Theory of Knowledge class, the students will strive to understand how the Romans perceived the world which is different than the viewpoint of a modern reader. CR 5, YO 12, PRE IB Latin SL

IB Latin HL 2 (5597) - This course is the second year of the HL curriculum and there will be an expectation of an increasing level of proficiency in translating Latin and the ability to comment on the Latin with a greater degree of sophistication. The students will continue to use Latin to support all of their answers. The students will increase their intimate knowledge of Latin authors with the addition of the prescribed author, Ovid, and an even closer look at Catullus than is expected by the IB exams. Students will continue to be expected to demonstrate knowledge of the Classical influences on later cultures in the world. In conjunction with the Theory of Knowledge class, the students will strive to understand how the Romans perceived the world which is different than the viewpoint of a modern reader. CR 5, YO 12, PRE IB Latin SL or IB Latin HL

IB Latin SL (5598) - Latin SL will be the third year of Latin taken in the junior year of students who started Latin in their freshmen year or for seniors who started Latin in their sophomore year. The goal of Latin SL is for the students to be able to translate with accuracy the Latin writers Ovid, Catullus, Horace, and Virgil. The students will also have a special focus on Ovid, as the prescribed author. The students will also be expected to be intimately familiar with the politics, history, art, and society of the Romans in the late republic and early empire and with a more general knowledge of the later Roman Empire. The students will be able to take this knowledge of the Romans and be able to demonstrate the Roman influences on later civilizations throughout the world. In conjunction with the Theory of Knowledge class, the students will strive to understand how the Romans perceived the world which is different than the viewpoint of a modern reader. CR 5, YO 11, PRE Latin 2 or Honors Latin 2

Group 3- Individuals and Societies

IB History of the Americas HL 1 (2220) and HL2 (2221) - The Diploma Programme History of Americas consists of a higher level core syllabus comprising an in-depth study of a prescribed subject (peacemaking, peacekeeping and international relations 1910-1936) as well as two 20th century topics (causes, practices and effects of war and the Cold War) and three aspects of the history of the Americas (the development of modern nations, emergence of the Americas in world affairs, and the Great Depression and the Americas. IB History of the Americas provides both structure and flexibility, fostering an understanding of major historical events in a global context. The aims of the course are to: promote an understanding of history as a discipline, including the nature and diversity of its sources, methods and interpretations; to support an understanding of the present through critical reflection of the past; motivate an understanding of the impact of historical developments at national, regional and international levels. The two-year syllabus includes the study of the United States, Canada and Latin America. An emphasis is placed on the evaluation of primary sources and responding in writing to open-ended questions. CR 5, YO 11, HL 1 PRE: US History 1, HL 2 PRE IB History of the Americas HL 1

IB Psychology SL (2224) - In this course students will study the many factors that influence human behavior with an emphasis on the Biological, Cognitive and Sociocultural Levels of Analysis. Through these levels and an infusion of cultural diversity and gender studies, students will uncover assumptions about behavior using classical studies as well as current research. Students are expected to recognize strengths and weaknesses in research, evaluate opinions and make suggestions for further studies. Students will also complete the Internal Assessment which is a replication of a simple experiment. CR 5, YO 11,12

Group 4- Experimental Sciences

IB Biology SL (4490) - In the IB Biology course students will acquire in depth knowledge about Biology along with a broad understanding of the principles and methods which characterize science and technology. Students will focus on developing an ability to analyze, evaluate and synthesize scientific information. Topics include the chemistry of life, cells, genetics, ecology and evolution, physiology and health, microbes and biotechnology. The level and content of this course will provide a sound preparation for university studies. CR 5, YO 11,12, PRE Chemistry with an average of 75 or higher

IB Chemistry SL (4492) - Chemistry SL is a course which is designed for students who would like to build on their understanding of Chemistry while gaining an appreciation for the natural world and the world-wide societal issues that the scientific community faces. Students will develop critical thinking skills while learning that the uncertainty of outcomes is what drives our ability to grow and improve our society. Topics include atomic structure, periodicity, bonding, energy, kinetics, equilibrium, acids and bases, oxidation and reduction, and organic chemistry. The level and content of this course will provide a sound preparation for university studies. CR 5, YO 11,12, PRE Chemistry with an average of 75 or higher.

IB Environmental Systems and Societies SL (4494) - The prime intent of this course is to provide students with a coherent perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face. Students' attention can be constantly drawn to their own relationship with their environment and the significance of choices and decisions that they make in their own lives. It is intended that students develop a sound understanding of the interrelationships between environmental systems and societies, rather than a purely journalistic appreciation of environmental issues. The approach therefore is conducive to students evaluating the scientific, ethical and socio-political aspects of issues. Students meet for mandatory field work over the summer. The purpose of these meetings is to complete the group 4 field study component of the IB ESS course. This component is integral to the diploma process. Meetings will be held at the RBR pond (near the baseball field) from 6:30p.m.-8:30p.m. on Tuesdays and Thursdays starting the 4th. full week of July through the 3rd. full week of August. CR 5, YO 11,12, PRE Chemistry with an average of 75 or higher.

Group 5 - Mathematics

IB Mathematics HL 1 (3372) - This is a rigorous course designed for strong mathematics students who have exhibited high achievement in technical and analytical skills and who plan to pursue mathematics, science, engineering or another technical field in their university studies. This course will give students multiple opportunities to view processes and natural phenomena from a mathematical viewpoint, to investigate sophisticated models and perform theoretical mathematical analysis. Topics include algebra, trigonometry, functions, matrices and vectors, probability, statistics and calculus. In addition, students will study the subtopics of series and differential equations. This is a two-year course where students will take the AP Calculus AB exam at the end of the first year and the AP Calculus BC exam at the end of the second year in addition to the required IB papers. CR 5, YO 11,12, PRE Honors Pre-Calculus or Pre-Calculus with an average of 85 or higher

IB Mathematics HL 2 (3373) - IB Mathematics HL is a rigorous 2-year course designed for strong mathematics students who have exhibited high achievement in technical and analytical skills. They should be interested in mathematics for its applications as well as its aesthetic appeal as a critical thinking process, and be competent at applying mathematical models to physical situations. Students who take this course will generally plan on pursuing mathematics, science, engineering, or another technical field in their university studies.

The second year of Mathematics HL focuses on statistics and probability, vectors, series, differential equations and advanced techniques of integration. The external assessment, given in May at the end of the second year of the course, consists of 3 papers. Both paper 1 and paper 2 cover the core topics of the syllabus and include both short-response and extended-response questions. Paper 3 covers the option topic, in this case series and differential equations, and consists of extended response questions. CR 5, YO 12, PRE IB Math HL 1

IB Mathematics SL (3374) - This rigorous course builds on students' knowledge of Algebra 2 and Pre-calculus. The course focuses on introducing important mathematical concepts through the development of mathematical techniques. The major topics studied in this course are: Differential Calculus, Integral Calculus, and Statistics. Sequences, series, matrices, vectors, lines and planes will also be studied in more depth than students encountered previously. As part of the IB assessment, students will complete at least two internal assessment activities, which are in-depth investigations that are written up as stand-alone technical papers. The course culminates with the IB external assessment, consisting of Paper 1, which does not allow a calculator, and paper 2, which does. Both papers are made up of both short-response and extended-response questions on the whole syllabus. CR 5, YO 11,12, Suggested PRE Honors Pre-Calculus or Pre-Calculus with an average of 85 or higher

IB Mathematical Studies SL (3370) - This rigorous course is a survey of mathematics designed for students whose primary area of study is not math or science. The focus of this course is the relationship of mathematics to other subjects of study and to the world around us. The primary purpose is to develop the critical thinking skills of students and to give them an appreciation of the many ways that mathematics can be used to better understand natural phenomena and current events. The many contributions of mathematicians from all over the world, as well as the societal influences on mathematical discoveries, will be introduced where appropriate. The material covered in this course will help prepare students to solve problems dealing with the following areas: Numbers and Algebra, Sets and Logic, Probability, Statistics, Functions, Geometry and Trigonometry, Introductory Differential Calculus, and Financial Mathematics. Students will complete an independent project, which serves as the internal assessment. CR 5, YO 11 PRE Algebra 2, Geometry with an average of 75 or higher

IB Computer Science SL/AP Computer Science A (6693) - IB Computer Science SL/ AP Computer Science A is a challenging curriculum aimed at student mastery of the Java computer language. The emphasis of the course is on the use of a logical approach and analytical thinking while using a computer to solve problems. Coursework will include concepts such as conditionals, looping, object oriented programming and data structures. This course prepares students to take the IB Computer Science SL exam, the AP Computer Science A test, and the IB Program Dossier. CR 5, YO 11,12, PRE Introduction to Computer Science 1 and/or Instructor's approval; Honors Computer Science 2 and/or above and Instructor's approval; Introduction to Computer Systems and/or above and Instructor's approval

IB Computer Science HL (6694) - IB Computer Science HL is a rigorous curriculum that builds upon the student's knowledge from IB Computer Science SL. Students will develop a more in depth understanding of the topics learned in IB Computer Science SL as well as computer mathematics and logic, file organization, a deeper look into system fundamentals, and abstract data structures and algorithms. The programming language used in this course is Java. This course prepares students to take the IB Computer Science HL test and will aid them in preparing the Program Dossier. CR 5; YO 11, 12, PRE APCS A/ IBCS SL, Pre/Co requisite: Honors Networking, Supervisor and Teacher Recommendation Required

Group 6 - The Arts

IB Visual Arts HL 1 (7800) - This higher level Visual Arts course is for a student who has a serious interest in art and willing to approach art with an open mind. The purpose of this course is to allow students to explore and experiment with different visual art forms emphasizing not only a personal approach but that of other cultures. Art is a universal form of communication that is not reserved for just a few people or limited to just a few art forms. For the same reason, the focus of this class will be to encourage students to investigate, inquire and experiment with artistic approaches used by different cultures, not only in terms of media but also in concept. CR 5, YO 11, PRE Commercial Art 2

IB Visual Arts HL 2 (7801) - In the second year of IB Visual Arts HL students will continue their art exploration from a global and personal perspective but concentrating in the creation of art based on their own artistic calling and the influences they have taken from the research done the previous year. Students are expected to create pieces of art to be shown in an exhibit taking place in mid March, as well as photographing work done in the Research Work Book (RWB). All these will be reviewed and sent to IB International for scoring. CR 5, YO 12, PRE IB Visual Arts 1

Core IB Course for IB Diploma Students

IB Theory of Knowledge (9010) - The main goal of the course is to encourage students to think critically about knowledge itself, that is, to focus on how they know, rather than on what they know. At the heart of the course is the student as knower, surrounded by the ways of knowing (emotion, reason, sense perception, and language), the areas of knowledge (the arts, natural sciences, human sciences, mathematics, history, and ethics), and personal beliefs acquired in or out of school, as well as beliefs acquired in various parts of the world. The goals of this course are to acquire an understanding of what it means to know something as an artist, a scientist, a psychologist, an economist, a mathematician, an historian, a

philosopher, etc., no matter where on the planet they are from; how the forms of knowledge acquired are interconnected, and how to think critically. An international perspective of knowledge will be discussed throughout, comparing and contrasting how people from different countries around the world live in cultures that affect how they acquire, and react to, specific types of knowledge. CR 5, YO 12, PRE IB Diploma Program Candidate

3.28 ELECTIVE CHOICES FOR ALL STUDENTS BY GRADE LEVEL

*This course applies toward the 5 credit Visual and Performing Arts requirement.

**This course applies toward the 5 credit 21st Century Life and Careers, or Career-Technical Education requirement.

***This course applies to either the 5 credit VPA requirement OR the 5 credit 21st Century Life and Careers, or Career-Technical Education requirement. (If course is 2.5 credits, it only fulfills half the requirement. Another course in the same area must be selected to obtain graduation requirement.)

Grade 9 Electives

<u>Course</u>	<u>Credits</u>	<u>Page</u>
7700 *Art 1	5	60
7708 *Avant- garde Art	2.5	60
7724 *Beginning Strings	5	60
6601 **Business Software Solutions	2.5	27
7775 *Concert Choir	5	60
7808 *Conditioning for Dance	2.5	60
1150 *Creative Writing 1	2.5	39
1151 *Creative Writing 2	2.5	39
7764 *Dance Elective	2.5	61
7802 **Digital Design (Pending)	5	61
6665 **Digital Literacy	2.5	58
7803 *Guitar	2.5	61
7730 *Intro to Harp	5	61
7789 *Intro to Piano	5	61
7804 *Music Industry	2.5	61
7805 *Musical Theatre	2.5	61
7776 *Music Theory 1	5	61
7750 *Orchestra	5 (see PRE)	62
7719 *Percussion Ensemble	5	62
6603 **Personal Financial Literacy	2.5	28
7784 *Piano Elective	5 (see PRE)	62
6650 **Prototype Design	2.5	58
7718 *RBR Band	5 + 2.5 (see PRE)	62
7806 *Songwriting	2.5	62
6602 **Strategies for Success	2.5 (9th only)	28
7769 *Theatre Elective	5	62
7807 *Yoga Elective	2.5	62

Grade 10 Electives

You may take any course listed under the Grade 9 Electives in addition to the following:

<u>Course</u>	<u>Credits</u>	<u>Page</u>
6610 **Accounting 1	5	27
7701 *Art 2	5 (see PRE)	60
6679 **Baking Arts	2.5 (see PRE)	43
6653 ***Computer Aided Design	5 (see PRE)	59
6676 **Child & Personal Development	5	43
7704 *Crafts 1	5	60
6681 **Digital Electronics	5 (see PRE)	23
6660 *Digital Photography	5	58
6624 **Entrepreneurship	2.5	27
6625 **Ethics in Business	2.5	27
6670 *Fashion 1, Art and Design	5 (see (PRE)	43
6671 **Foods 1	2.5	43
6672 **Foods 2	2.5	43
6641 **Honors Computer Science 2	5 (see PRE)	20
6683 **Honors Computer Integrated Manufacturing	5 (see PRE)	23
6691 **Honors Networking	5 (see PRE)	21
6682 **Honors Principles of Engineering	5 (see PRE)	23
6640 **Intro to Computer Science	5	20
6690 **Intro to Computer Systems	5	21
6652 **Invention and Innovation	5 (see PRE)	59
6680 ***Intro to Engineering Design	5	23
6631 ** Marketing	2.5	28
7777 *Music Theory 2	5 (see PRE)	61
1153 */**Production Journalism	5	40
1154 */**Public Speaking	2.5	40
1156 Sports and Literature	2.5	40
6655 */**Stage Technology	5 (see PRE)	62
6651 **Transportation Technology	5 (see PRE)	58
6628 */**Web Design 2	2.5 (see PRE)	28, 58
6627 */**Web Page Design 1	2.5 (see PRE)	28, 58
6654 **Women in Engineering	5 (see PRE)	59

Grade 11 Electives

You may take any course listed under the Grade 9 or 10 Electives in addition to the following:

<u>Course</u>	<u>Credits</u>	<u>Page</u>
6674 **Advanced Foods	2.5 (see PRE)	43
2237 American Legal Systems/Criminal Law	2.5	52
7709 AP Art History	5	60
6642 AP Computer Science A	5	20
7778 AP Music Theory	5	60
6623 **Applied Finance	2.5	27
7702 *Art 3	5 (see PRE)	60
6620 **Business Economics	5	27
6622 **Business in the Global Economy	2.5	27
2230 Contemporary World Issues 1	2.5	52
2231 Contemporary World Issues 2	2.5	52
7705 *Crafts 2	5 (see PRE)	61
6678 *Fashion 2	5 (see PRE)	43
1152 *Film Studies	2.5	39
6630 **Financial Planning, Investment & Insurance	5	28
1155 Graphic Novels and Visual Literacy	2.5	39
6611 **Honors Accounting 2	5 (see PRE)	28
6685 **Honors Aerospace Engineering	5 (see PRE)	23
6687 **Honors Biotechnical Engineering	5 (see PRE)	24
6692 **Honors CyberSecurity	5 (see PRE)	21
6684**Honors Civil Engineering & Architecture	5 (see PRE)	23
6694 IB Computer Science HL	5	20
2224 IB Psychology SL	5	52
6673 **International Culinary Experience	2.5 (see PRE)	43
2232 Political Science	2.5	52
6677 **Pre-School Lab	10 (see PRE)	43
2236 Psychology	2.5	53
2234 Sociology	2.5	53
8018**Sports & Hospitality Marketing Management	5 (see PRE)	48

Grade 12 Electives

You may take any course listed under the Grade 9, 10, or 11 Electives in addition to the following:

<u>Course</u>	<u>Credits</u>	<u>Page</u>
7703 *Art 4	5 (see PRE)	60
6637 **AP Economics	5 (see PRE)	27
6634 **Business Management & Managerial Operations	5 (see PRE)	27
6675 **Commercial Foods	5 (see PRE)	43
8050 Foundations of Exercise Science & Wellness	2.5	47
6696 **Honors Digital Forensics	5 (see PRE)	21
6686 **Honors Engineering Design & Development	5 (see PRE)	24
8051 Nutrition in Exercise, Wellness & Sports	2.5	47
2255 Tomorrow's Teachers	5	53
6645 **Web & Mobile Application Development	5 (see PRE)	20, 58
8052 Introduction to Sports Administration	5	47

AFTER SCHOOL ELECTIVES - GRADES 11 & 12

2256 Intro to African American Studies (Pending) 13

1175 News Writing (Pending) 13

All course names listed in bold print provide an option for college credit.

3.29 ELECTIVE CHOICES FOR ALL STUDENTS BY 3-YEAR ACADEMY

*This course applies toward the 5 credit Visual and Performing Arts requirement.

**This course applies toward the 5 credit 21st Century Life and Careers, or Career-Technical Education requirement.

*/**This course applies to either the 5 credit VPA requirement OR the 5 credit 21st Century Life and Careers, or Career-Technical Education requirement. (If course is 2.5 credits, it only fulfills half the requirement. Another course in the same area must be selected to obtain graduation requirement.) Students MUST select one elective from their academy choices. If a student wishes to satisfy an academy elective from outside the academy, he/she must submit a written rationale to the counselor explaining how it fits their career academy plan.

ACADEMY OF MATH AND SCIENCE

Grade 10:

4400 **Practical Apps. Math/Science (5)

Grades 11 and/or 12:

6610 **Accounting 1 (5)

6637 **AP Economics (5)

6623 **Applied Finance (2.5)

6621 **Banking and Monetary Policy (2.5)

6620 **Business Economics (2.5)

6634 **Business Management & Managerial Operations (5)

6653 */**Computer Aided Design (CAD) (5)

6681 **Digital Electronics (5)

6630 **Financial Planning, Investment & Insurance (5)

6611 **Honors Accounting 2 (5)

6685 **Honors Aerospace Engineering (5)

6687 **Honors Biotechnical Engineering (5)

6684 **Honors Civil Engineering & Architecture (5)

6683 **Honors Computer Integrated Manufacturing (5)

6641 **Honors Computer Science 2 (5)

6692 **Honors CyberSecurity (CompTIA Net+Certification) (5)

6696 **Honors Digital Forensics (5)

6686 **Honors Engineering Design & Development (5)

6691 **Honors Networking (CompTIA Net+Certification) (5)

6682 **Honors Principles of Engineering (5)

6640 **Intro to Computer Science (5)

6690 **Intro to Computer Systems (5)

6680 */**Intro to Engineering Design (5)

6652 **Invention and Innovation (5)

7776 *Music Theory 1 (5)

OR second science or math

VISUAL AND PERFORMING ARTS INTERDISCIPLINARY

Grade 10:

7725 Fine Arts Appreciation (5)

Grades 11 and/or 12:

7709 AP Art History (5)

7700 *Art 1 (5)

7701 *Art 2 (5)

7702 *Art 3 (5)

7703 *Art 4 (5)

7708 *Avant- garde Art (2.5)

7724 *Beginning Strings (5)

7775 *Concert Choir (5)

7808 *Conditioning for Dance (2.5)

7704 *Crafts 1 (5)

7705 *Crafts 2 (5)

1150 *Creative Writing 1 (2.5)

1151 *Creative Writing 2 (2.5)

7764 *Dance Elective (2.5)

6660 *Digital Photography (5)

1152 *Film Studies (2.5)

7803 *Guitar (2.5)

7730 *Intro to Harp (5)

7789 *Intro to Piano (5)

7804 *Music Industry (2.5)

7776 *Music Theory 1 (5)

7777 *Music Theory 2 (5)

7805 *Musical Theatre (2.5)

7750 *Orchestra (5)

7719 *Percussion Ensemble (5)

7784 *Piano Elective (5)

1153 */**Production Journalism (5)

7718 *RBR Band (5 + 2.5)

7806 *Songwriting (2.5)

6655 */**Stage Technology (5)

7769 *Theatre Elective (5)

7807 *Yoga Elective (2.5)

ACADEMY OF INTERNATIONAL AND CULTURAL STUDIES

Grade 10:

2212 AP Human Geography (5) OR

2214/2241 Human Geography (2.5)/Pop Culture (2.5)

Grades 11 and/or 12

7709 AP Art History (5)

6637 **AP Economics (5)

6622 Business in the Global Economy (2.5)

2230 Contemporary World Issues 1 (2.5)

2231 Contemporary World Issues 2 (2.5)

1150 *Creative Writing 1 (2.5)

1151 *Creative Writing 2 (2.5)

1152 *Film Studies (2.5)

2224 IB Psychology SL (5)

6673 **International Culinary Experience (2.5)

2236 Psychology (2.5)

1154 */**Public Speaking (2.5)

2234 Sociology (2.5)

6654 **Women in Engineering (5)

ACADEMY OF SPORTS MEDICINE AND MANAGEMENT

Grade 10:

8015/8016 Intro to Sports Medicine (2.5)/

Intro to Sports and Entertainment Marketing (2.5)

Grades 11 and/or 12:

6610 **Accounting 1 (5)

6634 **Business Management and Managerial Operations (5)

7764 *Dance Elective (2.5)

6624 **Entrepreneurship (2.5)

6625 **Ethics in Business (2.5)

6630 **Financial Planning, Investment & Insurance (5)

8050 Foundations of Exercise Science & Wellness (2.5)

6611 **Honors Accounting 2 (5)

8052 Introduction to Sports Administration (5)

6631 Marketing (2.5)

8051 Nutrition in Exercise, Wellness & Sports (2.5)

1153 */**Production Journalism (5)

2236 Psychology (2.5)

1154 */**Public Speaking (2.5)

2234 Sociology (2.5)

8018 **Sports & Hospitality Marketing Management (5)

1156 Sports & Literature

8017 **Sports Medicine 2 (5)

ACADEMY OF HUMANITIES AND SOCIAL SCIENCE

Grade 10:

2100/2200 Intro to Philosophy (2.5)/Forensic Social Science (2.5)

Grades 11 and/or 12:

2237 American Legal Systems/Criminal Law (2.5)

7709 AP Art History (5)

6637 **AP Economics (5)

6676 **Child & Personal Development (5)

2230 Contemporary World Issues 1 (2.5)

2231 Contemporary World Issues 2 (2.5)

1155 Graphic Novels and Visual Literacy (2.5)

2224 IB Psychology SL (5)

2232 Political Science (2.5)

6677 **Pre-School Lab (10)

1153 */**Production Journalism (5)

2236 Psychology (2.5)

1154 */**Public Speaking (2.5)

2234 Sociology (2.5)

1156 Sports & Literature

6628 */**Web Design 2 (2.5)

6627 */**Web Page Design 1 (2.5)

2255 Tomorrow's Teachers (5)