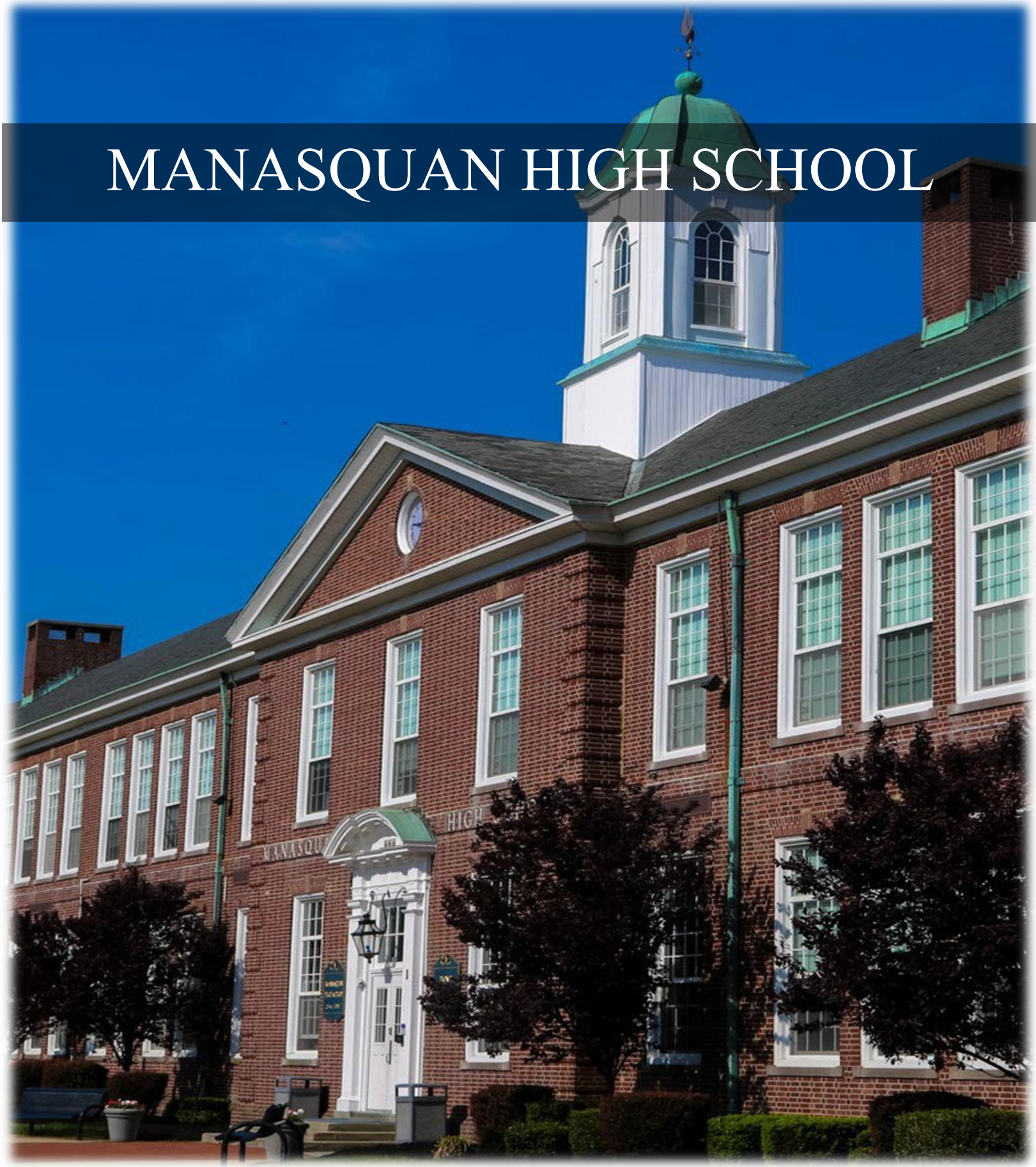
MANASQUAN HIGH SCHOOL



Program of Studies
2025-2026

Mission Statement

The Manasquan School District empowers all students by providing a safe, healthy, and inclusive environment where continual growth, perseverance, and rigorous academic standards are balanced with extensive extra- curricular opportunities and rich tradition through a partnership with the community.

Board of Education

M. Alexis Pollock, President
Alfred Sorino, Vice President

Bruce Bolderman
Donna Bossone
Eugene Cattani, Jr.
William Dibble
Joseph Loffredo
Jaime Malone
Thomas Pellegrino
Anthony Carnahan, Sending District Representative, Spring Lake Heights
Paraskevi Cavanagh, Sending District Representative Lake Como
David D'Ambrosio, Sending District Representative, Brielle

Administrative Staff

Superintendent of Schools	Robert Goodall, B.S., MA.
Assistant Superintendent	Jesse Place, B.S., M.A.
Business Administrator	Peter Crawley, Ed.D.
Director of School Counseling Services	Lesley Kenney, B.S., M.A.
Director of Curriculum & Instruction	Rick Coppola, B.S., M.A.
Director of Special Services	Cindy Cimino, B.S., M.A.
Principal and Supervisor of Business, Visual & Performing Arts	Matthew Kukoda, Ed.D.
Assistant Principal and Supervisor of Math, Science	Craig Murin, B.S., M.A.
Assistant Principal and Supervisor of World Languages	Maria Eldridge, B.S., M.A.
Supervisor of Extra-Curricular Activities, Health & Physical Education	Donald Bramley, B.S., M.A.
Supervisor of English, Social Studies	Margaret Polak, B.S., M.A.

The Manasquan Board of Education ensures equal educational opportunities regardless of race, color, creed, religion, sex, ancestry, national origin, handicap, or social-economic status.

Mr. Donald Bramley, Affirmative Action Officer

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School Counseling Services

The philosophy of the counseling program at Manasquan High School is that school counseling is an essential, integral part of the educational process. Counselors provide a comprehensive, developmental counseling program addressing the academic, career, and personal/social development of all students. As student advocates, counselors recognize the uniqueness, dignity, and personal worth of each individual. In an interactive process, the counselor facilitates student academic achievement. Counselors work collaboratively with students, parents, educators, and community members to support each student's ability to contribute at the highest level as productive members of society.

The Manasquan High School Guidance curriculum includes…

Classroom Guidance:

- Academic skills support
- Organizational, study, and test-taking skills
- Post-secondary planning and application process
- Career planning
- Education in understanding self and others
- Coping strategies
- Peer relationships and effective social skills
- Communication, problem-solving, decision-making, conflict resolution, and study skills
- Career awareness and the world of work
- Substance abuse education
- Multicultural awareness

Individual Student Planning:

- Goal setting
- Academic plans
- Career plans
- Problem-solving
- Education in the understanding of self, including strengths and weaknesses
- Transition to post-secondary plans

Responsive Services:

- Individual and small group counseling
- Individual/family/school crisis intervention
- Peer facilitation
- Consultation/collaboration
- Referrals

System Support:

- Professional development
- Consultation, collaboration, teaming
- Program management and operation

Source: *American School Counselor Association*

The School Counseling Department at Manasquan High School maintains an extensive web page which can be found at www.manasquanschools.org or access the School Counseling Services webpage directly here. This site contains valuable links to numerous resources including but not limited to a complete and up-to-date listing of all local scholarship sources for our seniors.

Counselor Assignments

Mrs. Lauren Saliski (732) 528-8820 x1016 lsaliski@manasquan.k12.nj.us	9th Grade A-Z
Mrs. Lauren Duggan (732) 528-8820 x1015 lduggan@manasquan.k12.nj.us	Grade 10-12 A-G
Mrs. Alicia Narucki (732) 528-8820 x1015 anarucki@manasquan.k12.nj.us	Grade 10-12 H-N
Mr. Xan Dingwall (732) 528-8820 x1014 adingwall@manasquan.k12.nj.us	Grade 10-12 O-Z
Mrs. Fatima Mulroy (732) 528-8820 x2012 fmulroy@manasquan.k12.nj.us	ESL Counselor K-12
Mrs. Leigh Busco (732) 528-8820 x1048 lbusco@manasquan.k12.nj.us	Student Assistance Counselor
Mrs. Elizabeth Rudder (732) 528-8820 x1047 erudder@manasquan.k12.nj.us	Social Worker
Mrs. Sarah Martin (732) 528-8820 x2011 smartin@manasquan.k12.nj.us	Social Worker
Mrs. Lesley Kenney **Director of School Counseling Services** **732-528-8820 x1010** **lkenney@manasquan.k12.nj.us**	

Graduation Requirements

In order for a student to graduate and receive a high school diploma from Manasquan High School, each student must earn a minimum of 150 credits by successful completion of the prescribed courses listed in the chart and as outlined in the course descriptions and as dictated by the State of New Jersey Department of Education.

Content Area	Minimum Credits and Additional Requirements for Graduation
English	20 credits
Mathematics	15 credits including: • Algebra I or the content equivalent • Geometry or the content equivalent • 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: • Laboratory biology/ life science or the content equivalent • Laboratory/ inquiry-based science course o Chemistry, Environmental Science, Physics • Another laboratory/ inquiry-based science course
Social Studies	15 credits including: • 5 credits in World History • Integration of civics, economics, geography and global content in all course offerings
Personal Financial Literacy	2.5 credits
Health, Safety and Physical Education	15 credits over four years including: • 3.75 credits in health, safety, and physical education during each year of enrollment, distributed as 150 minutes per week each year • Geometry or the content equivalent • Third year of math that builds on the concepts and skills of Algebra and Geometry and prepares students for college and 21st century careers
Visual & Performing Arts	5 credits
World Languages	5 credits
Technology	Integrated throughout all courses
21st Century Life & Careers	5 credits

General Information

College Requirements and Recommendations

While colleges vary widely in their admissions requirements, most colleges generally expect a student to have completed at least eighteen to twenty college preparatory courses (courses in English, Mathematics, Science, Social Studies, and World Language) by graduation. A student who carries four or five college preparatory subjects a year during grades 9, 10, 11, and 12 will have fulfilled this requirement. In addition, most colleges require that the college preparatory courses be distributed in certain subject matter areas. Although many of the more competitive colleges may prefer a much stronger program than the suggested plan below, and a number of other colleges may require less than the following program, **in general**, a college-bound student should plan to study:

4 years of English
3 or 4 years of college prep Mathematics 3 or more years of a laboratory Science
2 or 3 years of one World Language
3 or more years of Social Studies
A total of 18-20 college prep courses or equivalent

In addition, student athletes anticipating attending a Division I or II school must meet the requirements of the NCAA Clearinghouse. Please see your counselor if you are considering athletic participation in college.

Credit Requirement

(Minimum Progress to the High School Diploma)

a student will move from:
Grade 9 to 10 if student has earned 35 credits
Grade 10 to 11 if a student has earned 70 credits
Grade 11 to 12 if a student has earned 110 credits

Advanced Placement and Honors Level Courses

Courses designated as “Honors”, or “Advanced Placement” are intended to serve the needs of highly motivated, academically advanced students. Honors and Advanced Placement courses carry additional weight when computing grade point averages and class rank, and the designation “Honors” or “AP” is shown on the transcript. Admission and continued enrollment are dependent upon the student’s meeting all the following criteria:

1. Department recommendation, course prerequisite
2. Superior ability and/or achievement in previous coursework in the subject area
3. School counselor approval
4. Evidence of continued effort and achievement commensurate with honors level
    - An additional 7 points will be added to the cumulative weighted average of all honors level final course grades.
    - An additional 10 points will be added to the cumulative weighted average of all AP level final course grades. Students who fail to take the AP Exam will forfeit the additional 10 points added to the final course grade

College Preparatory Level Courses

"College Preparatory" courses are offered to help students develop the proficiencies required for successful completion of all graduation requirements and further academic study.
Admission is based upon:

1. Department recommendation course prerequisite
2. Performance in previous coursework in that subject area
3. Performance on achievement and proficiency tests
4. School counselor approval

Grading System

Grades will be recorded on report cards using a numerical system. The lowest grade recorded for grading purposes for marking periods will be 55. Grades recorded for final exams will be the grade actually earned. Teachers may record lower grades during the marking period and for the mid-term, but 55 will be the minimum grade used for report card grades, with the exception of the final exam. For final exams only, teachers can record the grade earned on the final exam. Students who receive a grade of "F" during the 4th marking period, must receive a passing grade on the final exam in order to pass the course for the school year.

Grading Scale

Grading Scale				Grading Comments	
A+	97-100	C+	77-79	I	Incomplete
A	93-96	C	73-76	X	Medical Excuse
A-	90-92	C-	70-72	NC	No Credit for Attendance
B+	87-89	D+	67-69	NG	No Grade
B	83-86	D	65-66	S	Satisfactory
B-	80-82	F	< 65	U	Unsatisfactory
				WF	Withdraw Failing
				WP	Withdraw Passing

Grading Scale Quality

Letter Grade	Numeric Range	Quality Points (College Prep)	Quality Points (Honors Level)	Quality Points (AP Level)
A+	97 – 100	4.33	5.00	5.33
A	93 – 96	4.00	4.67	5.00
A-	90 – 92	3.67	4.33	4.67
B+	87 – 89	3.33	4.00	4.33
B	83 – 86	3.00	3.67	4.00
B-	80 – 82	2.67	3.33	3.67
C+	77 – 79	2.33	3.00	3.33
C	73 – 76	2.00	2.67	3.00
C-	70 – 76	1.67	2.33	2.67
D+	67 – 69	1.33	2.00	2.33
D	65 – 66	1.00	1.67	2.00
F	< 65	0.00	0.00	0.00

How to Compute GPA

Quality points are computed by assigning a numerical value to each grade which is multiplied by the total number of credits assigned to a course.

Student Course	Grade	Equivalency		Credit		Points
English	A+	5.00		5		25.00
US History	B+	3.33		5		16.65
Honors Algebra I	B	3.67		5		18.35
AP Human Geography	A	3.67		5		23.35
Spanish I	A	4.00	x	5	=	20.00
Physical Education	C	2.00		3.75		7.50
Health	D+	1.33		1.25		1.66
Biology	C+	2.33		5		11.65
Music Appreciation	B+	3.33		2.5		8.83
Art Appreciation	D	1.00		2.5		2.50

Example:

Total Quality Points	÷	Total Credits Attempted	=	Grade Point Average
135.49		40.00		3.387

Class Ranking Policy

Class Rank is determined by the Grade Point Average for students who have attended Manasquan High School for a minimum of two years. Rank is calculated and made available to students after four semesters, and again, after six semesters. The final rank is calculated after all final grades have been submitted and entered after semester 8.

Final Grade Computation

The district's grading policy is used to compute final grades. Teachers devise a system for each marking period; i.e. value of quizzes, tests, homework, classroom participation, etc. Such grading systems should be known and approved by the department supervisor. Students should be informed of the teacher's grading system at the beginning of the year.

- Full year course
    - Each marking period is equivalent to 20%. The mid-term exam is equivalent to 10% and the final exam is equivalent to 10%.
- Semester course
    - Each marking period is equivalent to 45%. The final exam is equivalent to 10%.
- Three quarter course
    - Each marking period is equivalent to 30%. The final exam is equivalent to 10%.
- One quarter course
    - The marking period is equivalent to 90%. The final exam is equivalent to 10%.
- In semester length courses any student who fails one (1) marking period MUST pass the final exam and have a passing average in order to pass the course. Any student who fails to take the final exam will fail the course.
- In full year courses any student failing two (2) marking periods MUST pass the 4th marking period and/or the final exam and have a passing average in order to pass the course.

Senior Final Exam Exemption

A Senior (Grade 12) student who completes a course with an average of 90 or higher, as determined by averaging the Semester 1 average with the average of the third and fourth marking period grades will be exempt from taking the final exam. There will be no exemptions from mid-term exams. In the case of semester courses, where the exam is actually a final exam, seniors who have earned at least a 90 average for marking periods one and two, will be exempt from the semester course final exam.

Advanced Placement Courses

Students who enroll in Advanced Placement (AP) courses are required to participate in the end of year AP Exam developed by the College Board. These dates are published in September of the school year, and attendance is mandatory for each exam. The Manasquan Board of Education covers the exam fee. **Students who fail to take the AP Exam will forfeit the additional 10 points added to the final course grade.**

Honor Roll

The honor roll is based on the marking period grade for each course:

- High Honor Roll
  - 90 or higher marking period grade in all courses with no marking period grade below a 90.
- Honor Roll
  - 80 or higher marking period grade in all courses with no marking period grade below an 80.

Incompletes

A grade of Incomplete (I) will be given only when there is just cause, e.g., work missing due to absence or illness. Otherwise, students are expected to submit work on time. While it is permissible to accept work that is late, students are expected to complete all work prior to the end of the marking period.

Unless there are extenuating circumstances, students are expected to resolve incompletes no later than ten school days after the close of the marking period. Unresolved Incompletes will be automatically turned into the earned grade after 10 days. If an extension is sought, a request must go through the subject supervisor.

Progress Reports

Students' progress reports will be available online at the midpoint between each marking period. These reports do not necessarily mean that a student is failing, but a deficiency is noted that needs correction, or to alert the parents/guardians of the student's academic achievement.

Extra Help

Students may always seek extra help from teachers if a student does not understand an assignment, if the work is difficult, or if the student has been absent and has missed assignments and class discussions. Students are to arrange a conference with the teacher before or after school or at a time convenient to both of them during the school day. Please contact the school counselor for specific extra help schedules.

Transcripts

Any student who requires a transcript to be sent to a college should have a transcript request form filled out and signed by his/her parent or guardian and returned to his/her guidance counselor. Requests should be made at least two weeks prior to the college's deadline. Transcripts are free of charge.

Academic Requirements for Athletic Participation

The following outlines the credit requirements established by the New Jersey State Interscholastic Athletic Association (NJSIAA) for students to be eligible for athletic participation.

- To be eligible for athletic competition during the first semester (September 1 to January 31) a pupil must have passed 25% of the credits (30) required by the State of New Jersey for graduation (120), during the immediately preceding academic year.

- To be eligible for athletic competition during the second semester (February 1 to June 30), a pupil must have passed the equivalent of 12.5% of the credits (15) required by the State of New Jersey for graduation (120) at the close of the preceding semester (January 31). Full-year courses shall be equated as one-half of the total credits to be gained for the full year to determine credits passed during the immediately preceding semester.

More information about the NJSIAA requirements for athletic participation can be found on the NJSIAA Guidelines, Policies and Procedures website

Participation in College Athletics

Students intending to participate in NCAA Division I or II college athletics as a freshman must be certified by the NCAA Eligibility Center. Certain academic criteria in high school must be achieved to be eligible to participate in college. For a list of Manasquan Schools-approved courses, here or go to: www.eligibilitycenter.org and create an account and register with the NCAA Eligibility Center.

Communication of Student Progress

All parents are encouraged to create an account to access the Genesis Student Information System online portal. Parents/guardians should regularly check student progress, attendance, missing assignments and grades. If parents/guardians have questions concerning the academic progress of their child, the parents/guardians should first contact the classroom teacher and then, if necessary, the appropriate department supervisor. For concerns about overall progress in high school, the parents/guardians should contact the counselor. Please note that only the final grade for each course appears on the student's permanent transcript.

Review for Credit/ Summer School

Any student attending Manasquan High School who receives a 64 or below in a course taken during the regular school year receives zero credits towards graduation for that course. Students who need the course, or want to earn the credits lost by failing a course during the regular school year, may opt to:

1. Repeat the course during a future regular school year
2. Enroll in a summer school program approved by Manasquan High School

A student must be enrolled for a minimum of 60 hours for a five-credit review course (a course originally failed). A grade will be recorded resulting in no adjustment to the student's GPA. The appropriate credits will be awarded to those who successfully complete the coursework. The original failing grade will be maintained on the student's permanent record. All Summer School courses must be completed prior to the first day of school for a student to advance onto the next course. Failure to do so will result in the student repeating the course during the school year.

Academies and Dual Enrollment

Dual Enrollment through Brookdale Community College

Off Campus (Seniors Only)

Brookdale Community College and Manasquan High School have established a Dual Enrollment Release Program. The Dual Enrollment Release Program is developed in response to the 12th Grade Option initiated by the New Jersey Department of Education. This program allows qualifying students in grade 12 to gain both Manasquan High School and Brookdale Community College credits. Please see the school counselor for additional information.

Please Note: College Institutions can decide for themselves whether students can apply earned college credits toward the overall college graduation requirements, skip curriculum electives, or simply advance into upper-level courses. Students are expected to work with their school counselors and individual colleges to determine the transferability of credits.

MANASQUAN HIGH SCHOOL

Coordinators:
John Driscoll & Linda Hoeler

jdriscoll@manasquan.k12.nj.us
lhoeler@manasquan.k12.nj.us

MACADEMY OF FINANCE

ACADEMY OVERVIEW

The Academy of Finance program offers a special plan of study in finance at the high school level, which also fulfills both required and elective credits. Classroom instruction, supplemented by mentoring from industry specialists, college-level class work, and field trips comprise the important components of this program. Together academy students work on projects in order to develop "real-world" personal, financial, and technical skills that will make them business leaders of tomorrow. Upon completion of the Academy of Finance, the student will receive a "Certificate of Financial Studies."

ACADEMY COURSES INCLUDE

- Economics
- Accounting I
- Accounting II
- Sports & Entertainment Marketing
- Social Media & Internet Marketing
- Entrepreneurship
- Financial Planning
- AP Microeconomics
- AP Macroeconomics
- Principles of Marketing

PARTNERSHIP WITH GEORGIAN COURT UNIVERSITY

AOF students can earn college credits from GCU's course ahead program. GCU's School of Business and Digital Media holds accreditation from the Accreditation Council for Business Schools and Programs.

MANASQUAN HIGH SCHOOL

Coordinator:
Claire Kozic

ckozic@manasquan.k12.nj.us

MANASQUAN ACADEMY OF HEALTH CAREERS

ACADEMY OVERVIEW

Students are enrolled in college-level interdisciplinary, general health care, communication, and science courses during their 10th, 11th, and 12th grade years. To participate in the Health Careers Program, and be eligible for Rutgers University college credits, students must complete the Dynamics of Health Care course and at least one other course. To graduate from this academy, each student must take at least three health career courses. There is an $80 fee for each Rutgers program exam.

ACADEMY COURSES INCLUDE

REQUIRED

- Dynamics of Health Care in Society
- Fundamentals of Health & Wellness
- Nutrition Across the Lifespan
- Medical Terminology (Capstone)
- Scientific Principles of Nutrition
- Laboratory Anatomy & Physiology

RECOMMENDED

- AP Laboratory Biology
- Project Lead The Way:
  - Human Body Systems
  - Principles of Biomedical Sciences
  - Medical Interventions

MANASQUAN HIGH SCHOOL

Coordinators:
Jay Bryant & Jim Fagen

jbryant@manasquan.kl2.nj.us
jfagen@manasquan.kl2.nj.us

ACADEMY OF LAW, GOVERNMENT & PUBLIC SAFETY

ACADEMY OVERVIEW

The Academy of Law, Government and Public Safety creates a career interest pathway for students interested in careers in the practice of law, legislative work in the local, state, and federal government, law enforcement, fire service, and emergency services. Students interested in these fields are exposed to engaging and rigorous curriculum in elective choices to create a foundation in the career pathway in post-secondary or work force opportunities.

ACADEMY COURSES INCLUDE

LAW & GOV'T

- Civil Action & Democracy
- Introduction to Law
- Constitutional Law
- Introduction to Criminal Justice
- Introduction to Criminology
- AP United States Government & Politics
- Contemporary Issues in Government (Capstone)

PUBLIC SAFETY

- Criminal Investigation
- Public Safety
- Introduction to Criminology
- Introduction to Criminal Justice
- Public Safety Careers (Capstone)
- SLEO Class I Certification *Off-Campus

MANASQUAN HIGH SCHOOL

Coordinator:
Amy Edwards

aedwards@manasquan.kl2.nj.us

SCIENCE, TECHNOLOGY ENGINEERING& MATHEMATICS ACADEMY

ACADEMY OVERVIEW

The STEM Academy provides students interested students in a career-focused college-level curriculum that is rich in both content and hands-on experiences. To graduate, students must take at least one course from any of the three discipline-specific lists below, along with three, or more, additional STEM courses. STEM Academy Scholars can graduated with Distinction honors after successfully completing a rigorous 3-year prescribed course of study program to develop career ready-skills.

ACADEMY COURSES INCLUDE

ENGINEERING

PROJECT LEAD THE WAY

- Introduction to Engineering Design
- Principles of Engineering
- Civil Engineering & Architecture
- PLTW Capstone

INFORMATION TECHNOLOGY

COMPUTER SCIENCE

- AP Computer Science Principles
- AP Computer Science A
- PLTW Capstone

BIOMEDICAL SCIENCE

PROJECT LEAD THE WAY

- Principles of Biomedical Science
- Human Body Systems
- Medical Interventions
- PLTW Capstone

ADDITIONAL STEM OPEN ELECTIVES

MATHEMATICS

- Honors Precalculus
- Honors Calculus
- AP Calculus AB
- AP Calculus BC
- AP Statistics

CONSTRUCTION

- Materials & Methods I
- Materials & Methods II
- Construction Technology

SCIENCE

- AP Biology
- AP Chemistry
- AP Physics I
- AP Physics C
- AP Environmental Science
- Lab Anatomy & Physiology
- Honors Physics

MANASQUAN HIGH SCHOOL

Coordinator:
Carolyn Treney

ctreney@manasquan.k12.nj.us

MACADEMY OF VISUAL ARTS

ACADEMY OVERVIEW

The Academy of Visual Arts provides interested students with a focused curriculum and a career-based experience in the creative arts. After completing the foundational courses, students will select an area of concentration within their chosen field. Showcasing student work and performances are an integral part of the program. Courses emphasize interdisciplinary activities, cultural and historical relationships, career opportunities and college preparation in the arts. Focuses included 2-D, 3-D, and Graphic Design.

ACADEMY COURSES INCLUDE

- Art I
- Fine Arts
- Painting
- Cultural Arts
- Ceramics I
- Ceramics II
- Introduction to Sculpture
- AP Art & Design
- AP Art History

MANASQUAN HIGH SCHOOL

Coordinator:
Melissa Galano

mgalano@manasquan.k12.nj.us

ACADEMY OF PERFORMING ARTS

ACADEMY OVERVIEW

The Academy of Performing Arts provides interested students with a focused curriculum and a career-based experience in the creative arts. After completing the foundational courses, students will select an area of concentration within their chosen field. Showcasing student work and performances are an integral part of the program. Courses emphasize interdisciplinary activities, cultural and historical relationships, career opportunities and college preparation in the arts. Students may apply as early as Grade 9, and a minimum of 15 credits is required for graduation from the Performing Arts Academy.

ACADEMY COURSES INCLUDE

- AP Music Theory
- Introduction to Music
- World Music
- Music Theory
- Music Technology
- Piano
- Musical Theatre
- Warrior Band I-IV
- Jazz Improvisation I & II
- Concert Choir I-IV
- Introduction to Acting
- Foundations of Dance
- Dance Performance I, II, III
- Advanced Dance I, II, III
- Screenwriting
- Film, Flicks & Cinema

English

Department Supervisor: Mrs. Margaret Polak

ENGLISH I

Course Code 0212 (In-Class Resource Code 0214) Full Year
Grade 9 5 Credits

This course introduces students to a variety of literary genres through which they develop skills in critical reading and composition. Students explore unit and course level essential questions around the experiences, goals, and relationships between individuals and the society within which they live. Each unit of study requires students to investigate and synthesize ideas within core anchor texts and smaller readings from classic and modern works of fiction and non-fiction such as short stories, poems, editorials, speeches, and essays. Writing instruction emphasizes the writing process, inquiry and research skills, source evaluation and use of appropriate grammar, syntax and vocabulary. Students participate in literary analysis, narrative writing, and research simulation tasks. They also engage in effective collaboration and discussion, making presentations of research, interpretations, and arguments.

HONORS ENGLISH I

Course Code 0210 Full Year
Grade 9 5 Credits

This course is a more rigorous version of English I designed to challenge the highly motivated student with advanced skills in critical reading and composition. Students are required to synthesize texts that are longer or more complex and produce compositions with more development and sophistication. This course provides an intensive study of literary forms, including rhetorical devices, methods of critical analysis, and various modes of composition. Vocabulary development and grammar study are important elements of the course, as is the acquisition of effective collaboration and oral discussion skills. Students must meet the established criteria to enter an honors course.

Prerequisite: Teacher Recommendation and 8th Grade Final Course Grade (≥90)

ENGLISH II

Course Code 0222 (In-Class Resource Code (0224) Full Year
Grade 10 5 Credits

This course enriches the language arts, inquiry, and synthesis skills developed in English I. Literature and language study continue to emphasize vocabulary acquisition, an understanding of grammar as an element of style, analytical, and critical thinking, and the explication and synthesis of authors' ideas in student writing. Students continue to develop their writing and discussion skills through the analysis and synthesis of literary works, poetry, informational text, documents, and speeches. The course explores both classic and contemporary literature incorporated into units of study designed around essential questions and college and career readiness skills.

HONORS ENGLISH II

Course Code 0221 Full Year

Grade 10 5 Credits

This course extends the high academic rigor of the Honors English I curriculum. Students continue an intensive study of literature, non-fiction and composition. They develop mastery of literary forms, rhetorical devices, methods of critical analysis, vocabulary skills, and further develop their writing. Collaboration skills and debate/presentation skills are also components of the curriculum. Students will continue to expand their knowledge of challenging classic and modern texts from a variety of genres, including poetry, novels, the short story, non-fiction, and drama. Students will demonstrate increased proficiency with a variety of writing modes, web literacy, and the research/inquiry process. This course prepares students for Honors English III or a college level Advanced Placement Course – English Language and Composition. Students must meet the established criteria to enter an honors course.

Prerequisite: Honors English I (≥80) or English I (≥90), with a teacher recommendation

ENGLISH III

Course Code 0232 (In-Class Resource Code (0234) Full Year

Grade 11 5 Credits

This course continues the department's emphasis on critical reading, writing skills, and use of language as outlined in the student learning standards. Students develop their literary analysis skills, and oral and written communication skills while becoming more knowledgeable about literature and the various literary genres. While engaging in analysis of a variety of textual material, students also examine contemporary issues, present arguments supported by documented evidence, and propose ideas in writing and discussion. Practice for SATs, ACTs and college essay writing are also incorporated into the curriculum.

HONORS ENGLISH III

Course Code 0221 Full Year

Grade 11 5 Credits

This course is a more rigorous version of English III and challenges students to be active readers, and critical thinkers who can proficiently articulate well-developed ideas in written work and discussions. Students read a diverse selection of fiction, non-fiction, poetry, plays, speeches and documents which represent a variety of issues, perspectives, and cultures. Students reflect on reading assignments, make projections of literary outcomes, engage in analysis of texts and examine and respond to contemporary issues and trends. In focused discussions, students present ideas and questions based on information found in texts and develop, through careful analysis, their own opinions and ideas. Students who complete this course are well-prepared for Honors English IV or the college level Advanced Placement course – English Literature and Composition. Practice for SATs, ACTs and college essay writing are also incorporated into the curriculum. Students must meet the established criteria to enter an honors course.

Prerequisite: Honors English II (≥80) or English II (≥90), with teacher recommendation

ENGLISH IV

Course Code 0234 (In-Class Resource Code (0244) Full Year
Grade 11 5 Credits

This course presents challenging classic and contemporary literature and informational readings through which students must recognize and analyze universal themes, appreciate diverse cultures and perspectives and understand human experience. They present their ideas during discussions, in writing, and through multimedia presentations. Students refine their ability to analyze text, synthesize ideas, and present their thoughts using text support and a well-developed writing style. Students become cognizant of their own composing processes: the way they explore ideas, reconsider strategies, revise their work, and write in informal as well as formal contexts and learn to take compositional risks. Practice for college admission tests and essay writing is infused into the curriculum.

HONORS ENGLISH IV

Course Code 0240 Full Year
Grade 12 5 Credits

This course incorporates all the challenges of English IV with the integration of some of the higher-level reading and critical analysis expected of the Advanced Placement English Literature and Composition course. Writing informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content is emphasized. Students refine their ability to analyze text, synthesize ideas, present their thoughts using text support, and find their voice in a variety of writing modes during discussions and through multimedia presentations. The concentration on language use in this course enhances students' ability to use grammatical conventions with sophistication and to develop stylistic maturity in their prose. Practice for college admission tests and essay writing is infused in the curriculum. Students must meet the established criteria to enter an honors course.

Prerequisite: Honors English III (≥80) or English III (≥90), with a teacher recommendation

ADVANCED PLACEMENT ENGLISH LANGUAGE & COMPOSITION

Course Code 0245 Full Year
Grade 11 5 Credits

This course follows a curriculum approved by the College Board. The successful completion of the course and a score of a 3 or better on the Advanced Placement Exam can earn a student college credit. This course trains students to become skilled readers of prose written in a variety of rhetorical contexts and to write for a variety of purposes. Students learn of the interactions between a writer's purpose, audience expectations and subjects as well as the way genre conventions and the resources of language contribute to effectiveness in writing. Students engage in expository, analytical and argumentative writing as well as reflective and personal composition. They read primary and secondary sources carefully to synthesize material from these texts to support ideas and opinions they develop in writing and through discussions. This course enables students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. Students must meet the established criteria to enter an honors course.

Prerequisite: Honors English III (≥80) or English III (≥90), with a teacher recommendation

ADVANCED PLACEMENT ENGLISH LITERATURE & COMPOSITION

Course Code 0241 Full Year

Grade 12 5 Credits

This course follows a curriculum approved by the College Board. The successful completion of the course and a score of a 3 or better on the Advanced Placement Exam can earn a student college credit. This course engages students in the careful reading and critical analysis of literature from various genres and periods concentrating on works of recognized merit. Through close reading of selected texts, students deepen their understanding of the ways writers use language to provide meaning. They consider a work's structure, style and themes as well as figurative language, imagery, symbolism and tone. Writing is an integral part of the program and focuses on critical analysis of literature and includes expository, analytical and argumentative essays. Students develop the ability to write clearly and convincingly to express what they understand about literary works. Students must meet the established criteria to enter an honors course.

Prerequisite: AP English Language & Composition or Honors English III (≥80)

JOURNALISM/ JOURNALISM WORKSHOP

Course Code 0272 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

Journalism Workshop is an exciting elective course in which students learn to write all styles of newspaper stories, ranging from news and editorials to features and reviews. Students also experience the prowess of newspaper Publication as monthly issues of Manasquan High School's Blue & Gray are produced. Whether hatching ideas for interesting stories or reporting school events, the process includes decision making, interviewing, researching, writing, revising, and editing, as well as photography, page design, and computer layout. Students enrolled in the course must participate in this process and accept the responsibility of working both individually and as a team in order to manage multiple responsibilities, solve problems, and meet deadlines.

JOURNALISM II

Course Code 0273 Full Year

Grade 11, Grade 12 5 Credits

After completing Journalism Workshop, students interested in continuing their study of Journalism should take Journalism II. Students enrolled in the course will continue to write and design newspaper stories, participate in the publication process, and accept the responsibility of working both individually and as a team. These experienced students will also be counted on to share their knowledge and skills with students new to the course, and assume greater leadership responsibilities, with the potential to earn titles such as "editor".

FILMS, FLICKS, AND MOVIES: INTRODUCTION TO CINEMA STUDIES

Course Code 0269 Semester

Grade 11, Grade 12 2.5 Credits

This course is dedicated to the critical study of classic and award-winning films. Students interested in this course will learn how to "read" the visual language of film, which is essential to functioning in our current world where so much is communicated visually and even subliminally. Students will be introduced to classic cinema and the cultural, historical, and artistic significance of film. Films studied will include Academy Award winners and nominees from the 1930s to the present, classic genres, as well as significant films recognized by the American Film Institute. Students who love movies and have impeccable attendance (most films cannot be seen outside of class) should consider this interesting elective.

Social Studies

Department Supervisor: Mrs. Margaret Polak

WORLD HISTORY

Course Code 0358 (In-Class Resource Code 0359) Full Year
Grade 9 5 Credits

World History includes a survey of the world's geographical, political and cultural regions, past and present. The course focuses on examining the continuing interrelationships connecting these regions. The course deals with The Emergence of the First Global Age, The Age of Revolution, A Half Century of Crisis and Achievement, 20th Century since 1945 and Challenges for the Modern World.

HONORS WORLD HISTORY

Course Code 0356 Full Year
Grade 9 5 Credits

The Honors World History course will be a rigorous in-depth survey of the world's Geographical Political and Cultural regions past and present. The course focuses on examining the continuing inter-relationships connecting these regions. The course deals with the Emergence of the First Global Age, The Age of Revolution, A Half Century of Crisis and Achievement, The 20th Century since 1945 and Challenges for the Modern World. Students will be expected to have a high level of interest in the subject matter, and a strong academic ability and background.

Prerequisite: Teacher Recommendation and 8th Grade Final Course Grade (≥90)

UNITED STATES HISTORY I

Course Code 0312 (In-Class Resource Code 0314) Full Year
Grade 10 5 Credits

United States History I is designed to furnish an understanding and appreciation of our country's early heritage. The study will examine the development of our country from the creation of our first government (socially, economically, and politically), to the Progressive Era of the early 1900s.

HONORS UNITED STATES HISTORY I

Course Code 0315 Full Year
Grade 10 5 Credits

The Honors United States History I course focuses its attention on a very rigorous in-depth college level approach to the subject matter beginning in the sophomore year with the early development of our country's heritage up to 1890. A college level text is used. An extensive writing background is needed for all student participants. Assignments are given on both a daily and weekly basis, with much greater responsibility placed on the student than in the traditional United States History course.

Recommended Prerequisite: Honors World History (≥80) or World History (≥90) with Teacher Recommendation

UNITED STATES HISTORY II

Course Code 0322 (In-Class Resource Code 0324) Full Year
Grade 11 5 Credits

United States History II continues the study of our nation from the 1900's to the present, tracing its political, economic, social and foreign affairs development. The contributions and events which made this country one of the most powerful in the history of mankind will be examined.

ADVANCED PLACEMENT UNITED STATES HISTORY

Course Code 0325 Full Year

Grade 11, Grade 12 5 Credits

The Advanced Placement United States History program is open to students who have satisfactorily completed the United States History I course. The students will be required to do extensive oral and written reports and will also be required to do a great deal of self-directed, independent study and outside reading. Special emphasis will be placed on preparation for the AP Exam which is administered each Spring. College credit is available through Georgian Court University. (This course satisfies the NJ state requirement for United States History II.)

Recommended Prerequisite: Honors United States History I (≥ 80) or United States History (≥ 90), with a teacher recommendation

ADVANCED PLACEMENT WORLD HISTORY

Course Code 0367 Full Year

Grade 11, Grade 12 5 Credits

Recommended for juniors and seniors, this course focuses on the emergence of China, India, Japan, Africa, Europe, and South/Central America from their early foundations to the present day. Cultural trends and historical patterns are examined in a college level approach. Extensive reading and writing assignments will be required. College credit is available through Georgian Court University. All students enrolled in the course must take the AP Exam in the Spring.

ADVANCED PLACEMENT EUROPEAN HISTORY

Course Code 0350 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

This course offers students the opportunity to take an advanced placement history class focused on the development of Europe from the Renaissance until the Present. In this course, students will develop the disciplinary practices and reasoning skills used by historians through analyzing historical evidence using both primary and secondary sources, argument development, contextualization, comparison, causation and continuity and finally, change over time. This course will be structured around the investigation of six course themes and 19 key concepts in four different chronological periods, from approximately 1450 to the present. All students enrolled in the course must take the AP Exam in the Spring.

ADVANCED PLACEMENT HUMAN GEOGRAPHY

Course Code 0369 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

The purpose of the Advanced Placement Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, using the alteration of the Earth's surface. Students will employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. Students will also learn about the methods and tools geographers employ in their science and practice. All students enrolled in the course must take the AP Exam in the Spring.

PSYCHOLOGY

Course Code 0334 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

The Psychology course explores an individual's emotional, cognitive and behavioral development. Further studies will address the general theories of personality, emotions, motivation, abnormal psychology, stress, consciousness and learning. Extensive reading, child observation projects and field research are required.

ADVANCED PLACEMENT PSYCHOLOGY

Course Code 0333 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

The purpose of this Advanced Placement course in Psychology is to go beyond the traditional Psychology course and introduce students to the systematic and scientific study of the behavioral and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each major subfield within Psychology. They also learn about the methods psychologists use to explore the processes involved in normal and abnormal perceptions, thoughts, feelings and actions. The students will be required to do extensive oral and written research and will be required to do a great deal of self-directed, independent study and outside reading. Special emphasis will be placed on preparation for the AP Exam which is administered in the Spring.

ADVANCED PLACEMENT UNITED STATES GOVERNMENT AND POLITICS

Course Code 0330 Full Year

Grade 11, Grade 12 5 Credits

This course introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning, assess causes and consequences of political events, and interpret data to develop evidence-based arguments. All students enrolled in the course must take the AP Exam in the Spring.

ECONOMICS

Course Code 0353 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

Economics is a semester length course in macro and microeconomics that provides an understanding of how our market economy functions in a global setting. It provides students with a survey of economic concepts, including all of the basic principles recommended by the National Council on Economic Education. In addition, a unit on capital markets acquaints students with the role that markets and securities play in the U. S. economy. Special coverage of International Finance is embedded in this program, as well as exploration of the international finance system, foreign exchange rates, foreign exchange markets, international financial markets, international banking and multinational corporations.

ADVANCED PLACEMENT MICROECONOMICS

Course Code 0380 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

This course will provide students with a thorough understanding of the principles of economics that apply to the functions of individual decision-makers, consumers, and producers, within the larger economic system. This course emphasizes the nature and functions of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. Students will benefit from obtaining an education in one of the most critical areas of business. The course will also highlight the effect political and business decisions have on an economy. All students enrolled in the course must take the College Board AP Microeconomics Exam.

Prerequisite: Algebra I, Business & Financial Literacy

ADVANCED PLACEMENT MACROECONOMICS

Course Code 0382 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

Advanced Placement Macroeconomics will provide students with a thorough understanding of the principles of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. The course will also look at macroeconomic issues such as the political impact on economic systems and the economic decision-making process as well as through current events and global trends. All students enrolled in the course must take the College Board AP Macroeconomics Exam.

Prerequisite: Algebra I, Business & Financial Literacy

THE HISTORY OF SPORTS IN AMERICA

Course Code 0375 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

In this course, students will explore the significance of sport in American history. As students read stories of races won, touchdowns scored, and players rounding the bases, they will look beyond the action on the field of competition and focus on the main themes of: the impact of immigration, industrialization, and urbanization on the games Americans played; the class origins of sports like baseball, boxing, and football; sport and the conflict between labor and capital; racial prejudice, exclusion, and integration in sport; athleticism and the evolving ideas about masculinity and womanhood.

CIVIL ACTION IN A DEMOCRACY

Course Code 0384 Full Year

Grade 10, Grade 11, Grade 12 2.5 Credits

This semester course will promote civic competence and responsibility by providing students with an innovative course on the history and principles of constitutional democracy in the United States. Critical thinking exercises, problem-solving activities, and cooperative learning techniques help develop intellectual and participatory skills which increase understanding of the institutions of American constitutional democracy. This course provides the student the opportunity to study this social world and gain insights into the nature and source of the self, modern social problems, (with a special focus on the criminal justice system) delinquency, poverty, race, social class, and ethnicity. The course studies our society through the use of internet resources experimentation, observation field trips, class discussion, and guest speakers.

CONTEMPORARY ISSUES IN GOVERNMENT

Course Code 0331 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

This course focuses on State and Local Government, providing a comprehensive understanding of their structures, functions, and operations. It starts with foundational concepts, distinguishing federal, state, and local systems, and examining the New Jersey Constitution's history and significance. Students will study New Jersey's executive, legislative, and judicial branches, including key officials' roles and the legislative process. The course covers various forms of local government, officials' duties, and provided services. By exploring policy issues like education, environment, and the economy, students will gain a nuanced understanding of the challenges and opportunities in state and local governments.

INTRODUCTION TO LAW

Course Code 0306 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

This semester course is designed to acquaint students with the American legal system, and the ways that this system affects their daily lives. This course will develop the student's knowledge of legal terms, the responsibilities and roles of court officials, the requirements and use of contracts, the laws concerning liability and torts, individual property rights and responsibilities and a survey of the criminal code. It will also include a segment on juvenile justice. Members of state and local police agencies and attorneys will serve as guest lecturers. Field trips to view the criminal justice system in action are planned.

CONSTITIONAL LAW

Course Code 0307 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

This course is designed for students interested in law, government, and politics. Students will examine a wide range of contemporary issues subject to Constitutional interpretation, the introduction of students to the Constitution, fundamental concepts of Constitutional law, the role of the courts, and the legal limitations on governmental policy making. Students will develop skills that enable them to read and interpret Supreme Court decisions, which serve as the basis for class discussion. Debates and Moot Courts call on students to develop persuasive arguments in defense of their positions, thereby sharpening their reasoning and analytical skills.

PUBLIC SAFETY

Course Code 0772 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

This course is designed for students interested in law, government, and politics. Students will examine a wide range of contemporary issues subject to Constitutional interpretation, the introduction of students to the Constitution, fundamental concepts of Constitutional law, the role of the courts, and the legal limitations on governmental policy making. Students will develop skills that enable them to read and interpret Supreme Court decisions, which serve as the basis for class discussion. Debates and Moot Courts call on students to develop persuasive arguments in defense of their positions, thereby sharpening their reasoning and analytical skills.

CRIMINAL INVESTIGATION

Course Code 0778 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

This course is designed to acquaint the student with the procedures, techniques, legal concerns, and challenges associated with criminal investigation. The course focuses on the role of the criminal investigator and emphasizes interviewing skills and legal requirements. Combining classroom lectures and practical exercises in the course allows students to better comprehend the various investigative procedures.

Prerequisite: Public Safety

INTRODUCTION TO CRIMINAL JUSTICE

Course Code 0782 Semester

Grade 11, Grade 12 2.5 Credits

The social and institutional response to crime is discussed topically in this interdisciplinary survey of the American Criminal Justice System. Students are required to formulate views on controversial issues and concerns such as plea bargaining, the exclusionary rule, insanity defense and capital punishment. This college-level course is offered as a dual-enrollment course so eligible students may choose to take it for Brookdale college credits.

CRIMINOLOGY

Course Code 0781 Semester

Grade 11, Grade 12 2.5 Credits

Students will be introduced to the study of crime and criminal behavior. This is the only course in the program which studies the criminal rather than society's response to crime. Three different methods of measuring crime will be described; the five schools of criminological theory will be reviewed; and several different crime problems in America will be discussed.

Prerequisite: Introduction to Criminal Justice

PUBLIC SAFETY CAREERS

Course Code 0776 Semester

Grade 12 2.5 Credits

This capstone course is the conclusion of the Public Safety Academic experience and is the final course completed by senior students in the program. The students will demonstrate that they can successfully analyze, evaluate, and interpret issues, problems and policies confronting the public safety officer through a critical thinking, problem-solving process. This takes place in the context of a project that focuses on issues in public safety and culminates in a presentation of their findings. The students will apply knowledge and understanding in preparation for either an entry- level position in law enforcement or college studies in a related field.

Prerequisite: Public Safety and/or approval from Public Safety Coordinator

SLEO CLASS 1 CERTIFICATION

Off Campus Semester

Grade 12 2.5 Credits

The Special Officer Class I is certified by the New Jersey Police Training Commission. This 80-hour course provides training in PR-24, handcuffing, defensive tactics, disorderly person's offenses, first aid, use of force, various patrol concepts, and ethics. Upon graduation, the student will be a PTC certified Class One Special Law Enforcement Officer. (Students must be 18 at the time of this course, have graduated from the Academy of Public Safety and have a resolution approved by a police agency prior to being certified.)

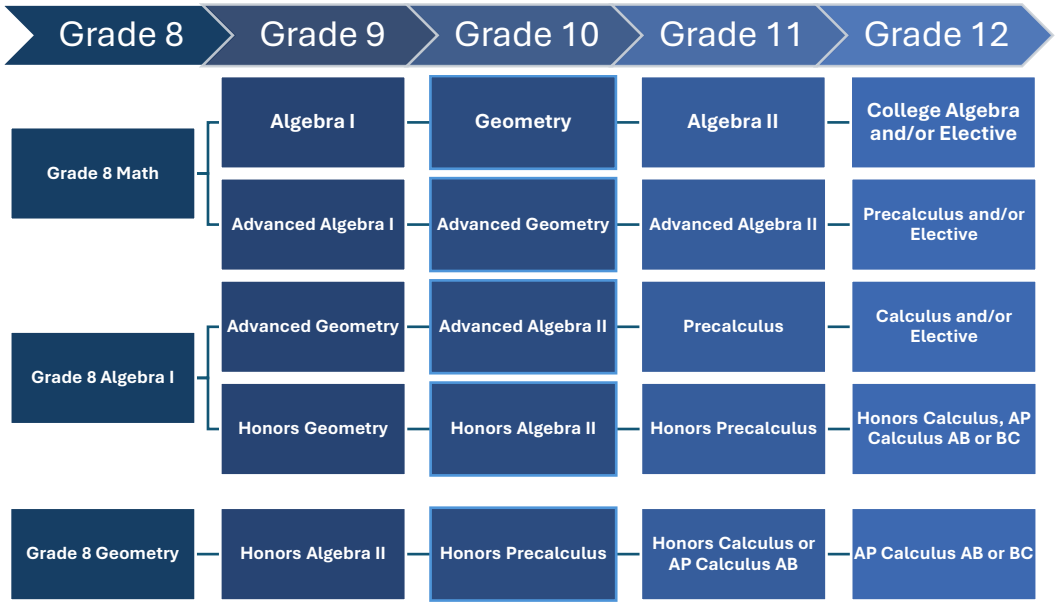
Mathematics

Department Supervisor: Mr. Craig Murin

The Mathematics Department offers a wide range of courses for every level of ability. There are three sequences from which to choose: College Preparatory Sequence, Advanced College Preparatory Sequence, and the Honors College Preparatory Sequence. It is recommended that placement into any sequence take into consideration the ability of the student, his/her future goals, performance in previous math courses, and performance on standardized tests. Students who seek a rigorous program of study with exceptional math ability and who wish to study math in greater depth should consider taking Honors and Advanced Placement courses.

Credit Advancement:
Courses taken for advancement purposes in an approved college program or in a state-approved 120-hour program must have the prior approval of the Department Supervisor and Director of School Counseling. Students must also show evidence of a grade of 80 or better in their CURRENT MATH course to enroll in a credit advancement course. These courses for advancement purposes do not appear on the High School Transcript or receive credit toward the calculation of rank in class or the GPA. Students must earn a passing grade in the credit advancement course in order to move to the next level.

Mathematics Course Sequencing



Math Electives	
AP Computer Science Principles	AP Calculus BC
AP Computer Science A	Consumer Math
AP Statistics	Statistics
Honors Calculus	College Algebra
AP Calculus AB	

ALGEBRA I

Course Code 0501 (In Class Resource Code 0503) Full Year
Grade 9, Grade 10 5 Credits

Introduces problem solving strategies, using real number systems, solving equations and inequalities, polynomials, factoring, linear systems of equations and inequalities, rational and irrational numbers, quadratic functions, and probability and statistics.

ADVANCED ALGEBRA I

Course Code 0590 (In Class Resource Code 0591) Full Year
Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

Introduces problem solving strategies, using real number systems, solving equations and inequalities, polynomials, factoring, linear systems of equations and inequalities, rational and irrational numbers, quadratic functions, and probability and statistics.

Recommended Prerequisite: Grade 8 Math (≥80)

GEOMETRY

Course Code 0522 (In Class Resource Code 0523) Full Year
Grade 10, Grade 11, Grade 12 5 Credits

This course provides students with an opportunity to build functional geometric competencies in order to meet or exceed the requirements of the New Jersey State Proficiency Test. Topics include the study of lines and angles, deductive proofs, parallel lines, congruent triangles, circles, quadrilaterals, similar triangles, right triangle trigonometry, regular polygons, areas and volume, and transformations.

ADVANCED GEOMETRY

Course Code 0592 (In Class Resource Code 0593) Full Year
Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

This course develops deductive reasoning and uses Euclidean plane geometry as a model. Topics include the study of lines and angles, two-column proofs, parallel lines, congruent triangles, circles, quadrilaterals, right triangle trigonometry, polygons, areas and volume, and transformations. Also examined are the ideas of coordinate geometry, spatial relationships and rectangular coordinates.

Recommended Prerequisite: Grade 8 Algebra (≥80) or Algebra I (≥80) or Algebra Concepts (≥90) with teacher recommendation

HONORS GEOMETRY

Course Code 0521 Full Year
Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

This course offers the students the opportunity to develop skills in the use of inductive and deductive reasoning in the solution of mathematical problems, using Euclidean plane geometry as the model. Traditional axiomatic, transformational, and coordinate and vector approaches are used in the course, as they apply to the problem solutions. The course will focus on real life applications related to algebraic and geometry concepts studied, technology use and enrichment.

Recommended Prerequisite: Grade 8 Algebra (≥85) with teacher recommendation or Algebra I (≥90) with teacher recommendation

ALGEBRA II

Course Code 0512 (In Class Resource Code 0513) Full Year
Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

Includes the study of graphical representations and methods, linear programming, polynomials, factoring, rational expressions, quadratic functions, radical functions, exponential functions, and logarithmic functions. This course will extend the concepts of graphs and complex numbers.

ADVANCED ALGEBRA II

Course Code 0594 (In Class Resource Code 0595) Full Year
Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

This course is for the student who wishes to continue his/her study of more advanced work in mathematics. Includes the study of radical, exponential, logarithmic, polynomial, rational, and periodic functions. This course will further the understanding of complex numbers, graphs of functions, and non-linear functions.

Recommended Prerequisite: Algebra I and Geometry (≥80)

HONORS ALGEBRA II

Course Code 0596 Full Year
Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

The algebraic properties of the real number system are reviewed, as are equations of the first and second degree. The real number system is extended to the complex number system. Radical, exponential, logarithmic, polynomial, rational, and periodic functions, along with trigonometry are studied in detail. An emphasis is placed on mathematical modeling and applications. Sequences, series, parametric, and polar functions are covered as time permits.

Recommended Prerequisite: Honors Geometry (≥80) or Algebra I (≥90), Geometry (≥90), with teacher recommendation

PRECALCULUS

Course Code 0534 Full Year
Grade 10, Grade 11, Grade 12 5 Credits

Mathematical analysis is used to extend the study of mathematical systems in this course. Students are given the opportunity to gain understandings related to the complex number system and its relationship to trigonometric, circular, and polynomial functions, identities, graphical representations, and equations. Also examined are analytical geometry, limits, graphs, equations, exponential functions and logarithms. Throughout the course, the implementation of graphing calculators and computers are used to enhance selected lessons.

Recommended Prerequisite: Advanced Algebra II (≥75)

HONORS PRECALCULUS

Course Code 0533 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

This course presents the students an opportunity to learn the basic topics of Trigonometry and Analytic Geometry, while examining some of the more advanced processes leading to Calculus. Theory is combined with applications in mathematical analysis. The trigonometric, circular and polynomial functions and complex number systems, identities, and graphical representations are included in this course. In addition, the principles of analytic geometry, limits, series and sequences are covered as a preparation for Calculus. Throughout the course, the implementation of graphing calculators and computers are used to enhance selected lessons.

Recommended Prerequisite: Advanced Algebra II (≥90) or Honors Algebra II (≥80)

CALCULUS

Course Code 0542 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

This Calculus course assumes knowledge of Algebra, Geometry, Trigonometry, and Analytic Geometry. A strong understanding of elementary functions is developed prior to the study of differential calculus and integral calculus is stressed. Students will examine the application of advanced methods of calculation in verbal problems, graphing, problems involving areas and volumes of rotation.

Recommended Prerequisite: Advanced Algebra II (≥80) or Precalculus (≥80)

HONORS CALCULUS

Course Code 0540 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

This honors level calculus course provides students with an opportunity to develop a conceptual understanding of calculus and its applications. The course emphasizes a multi-representational approach to calculus with concepts, results, and problems being expressed analytically and numerically. As in the Advanced Placement course, the unifying themes of the course are limits, differentiation, and integration and appropriate applications of these concepts. This course will also include the study and analysis of trigonometric functions, as well. Graphing calculators are used to reinforce mathematical relationships, to confirm written work, to implement experimentation, and to assist in interpreting results. Graphing calculators are required.

Recommended Prerequisite: Precalculus (≥90) with a teacher recommendation

ADVANCED PLACEMENT CALCULUS AB

Course Code 0538 Full Year

Grade 10, Grade 11, Grade 12 10 Credits

This Advanced Placement Calculus AB course assumes a prior knowledge and understanding of Algebra, Geometry, Trigonometry and Analytical Geometry, as well as knowledge of various elementary functions. The topics covered in this program include those in traditional Calculus, as well as additional topics outlined by the College Board for their Calculus AB program. Instructional coverage of course content will be both rigorous and fast paced as all topics must be covered by May 1st so that students will be prepared to take the AP Test during the second week in May. All students enrolled in the course must take the AP Exam in the Spring. *Summer work is required of all students who enroll in this course.

Recommended Prerequisite: Calculus (≥90) with teacher recommendation or Honors Calculus (≥80) with teacher recommendation

ADVANCED PLACEMENT CALCULUS BC

Course Code 0539 Full Year

Grade 11, Grade 12 5 Credits

In addition to the topics covered in Advanced Placement Calculus AB, this course presents students with a study of differential equations, sequences, series, polar coordinates, and parametric equations. The use of a graphing calculator is integrated throughout this course. This is a rigorous course designed to prepare the student to take the College Board's AP Calculus BC examination in the Spring. Instructional coverage of course content will be both rigorous and fast paced as all topics must be covered by May 1st so that students will be prepared to take the AP Test during the second week in May. All students enrolled in the course must take the AP Exam in the Spring. *Summer work is required of all students who enroll in this course.

Recommended Prerequisite: Advanced Placement Calculus AB (≥80) with teacher recommendation or Honors Calculus (≥90) with a teacher recommendation

ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES

Course Code 0150 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

Advanced Placement Computer Science Principles introduces you to the foundations of computer science with a focus on how computing powers the world. Along with the fundamentals of computing, you will learn to analyze data, create technology that has a practical impact, and gain a broader understanding of how computer science impacts people and society. All students enrolled in the course must take the AP Exam in the Spring. *Summer work is required of all students who enroll in this course.

Recommended Prerequisite: Completion of Algebra I in high school or Grade 8

ADVANCED PLACEMENT COMPUTER SCIENCE A

Course Code 0151 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

This is an intensive full-year course that familiarizes students with programming concepts (using the Java programming language) comparable to an introductory course in computer science at the college level. Topics include Java fundamentals, arrays and matrices, selection and repetition, pointers and dynamic memory, strings and text, classes and objected-oriented programming, recursion, searching and sorting techniques, algorithmic analysis, and references and dynamic memory. All students enrolled in the course must take the AP Exam in the Spring. *Summer work is required of all students who enroll in this course.

Recommended Prerequisite: Completion of Advanced Placement Computer Science Principles

STATISTICS

Course Code 0560 Full Year

Grade 11, Grade 12 5 Credits

This mathematics course is a non-calculus based introductory course in statistics which may be completed as an elective or as a senior math course. To be successful in this course students must have completed Algebra II. Students planning studies in physical or social sciences should consider this course. Students who complete this course will be prepared to do similar work in a college level statistics course. Students will be exposed to four conceptual themes: exploring data, planning a study, anticipating patterns, and inferring from statistics. Students will also be introduced to selected topics in discrete mathematics and probability.

Recommended Prerequisite: Advanced Algebra II (≥75) or Algebra II (≥80) or Precalculus (≥75)

ADVANCED PLACEMENT STATISTICS

Course Code 0561 Full Year

Grade 11, Grade 12 5 Credits

Advanced Placement Statistics is an Advanced Placement course, which is equivalent to a one-semester introductory, non- calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This course will follow a syllabus approved by the College Board that is designed to prepare students to take the AP Statistics Exam. Graphing calculators are required. *Summer work is required of all students who enroll in this course.

Recommended Prerequisite: Teacher recommendation and Advanced Algebra II (≥90) or Honors Algebra II (≥80) or completion of any level of Calculus (≥80)

CONSUMER MATH

Course Code 0552 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

This course stresses making consumer decisions regarding transportation, buying food and clothing, your family's housing, estimating income and planning expenditures, taxation, consumer credit, banking, insurance, investments, arithmetic review, and practice.

COLLEGE ALGEBRA

Course Code 0518 Full Year

Grade 12 5 Credits

This capstone course will continue the study of algebraic skills first learned in Algebra II and extend these skills to the types of problems covered in college algebra. Applications of the following types of functions will be covered: linear, quadratic, polynomial, rational, radical, exponential, and logarithmic. In addition, the course introduces trigonometric functions, and the transformations applied to functions. Problems in the course are approached from a variety of perspectives, including graphical, numerical, and algebraic.

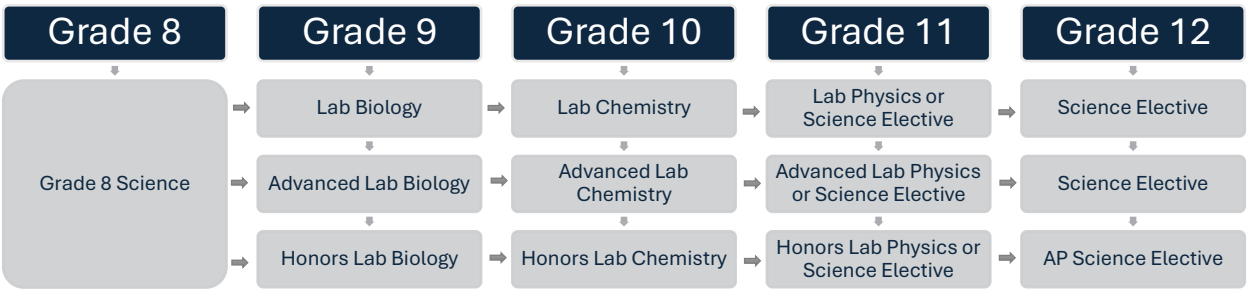
Science

Department Supervisor: Mr. Craig Murin

The Science Department offers a variety of inquiry-based courses to not only satisfy the Science graduation requirements but also address the National Next Generation Science Standards and the New Jersey Student Learning Standards. It is also our mission to provide the necessary skills for 21st Century College and Career Readiness success. The district requirement for Science includes one year of Biology, one year of Chemistry and a recommended year of Physics or Lab/Inquiry Based Science. There are three sequences from which to choose: College Preparatory Sequence, Advanced College Preparatory Sequence, and the Honors College Preparatory Sequence. It is recommended that placement into any sequence takes into consideration the ability of the student, his/her future goals, performance in previous science courses, and performance on standardized tests. Students who seek a rigorous program of study with exceptional science ability and who wish to study science in greater depth should consider taking Honors and Advanced Placement courses.

Credit Advancement:
Courses taken for advancement purposes in an approved college program or in a state-approved 120-hour program must have the prior approval of the Department Supervisor and Director of School Counseling. Students must also show evidence of a grade of 80 or better in their CURRENT SCIENCE course to enroll in a credit advancement course. These courses for advancement purposes do not appear on the High School Transcript or receive credit toward the calculation of rank in class or the GPA. Students must earn a passing grade in the credit advancement course in order move to the next level.

Science Course Sequencing



Science Electives	
AP Biology	Lab Astronomy
AP Chemistry	Lab Forensics
AP Physics I	Lab Horticulture
AP Physics C	Lab Marine Science
AP Environmental Science	Lab Meteorology
	Lab Oceanography

LABORATORY BIOLOGY

Course Code 0622 (In Class Resource Code 0623) Full Year
Grade 9 5 Credits

This study of biological concepts is laboratory oriented. It provides an overview of the chemical and structural basis of life including the interactions of organisms and the environment. This course covers the same topics as Laboratory Biology but in a more teacher directed, and student supported manner. Lab demonstrations, activities and group investigations are part of the curriculum. An emphasis is placed on the living organism as part of the biosphere and social organization of civilization. Students enrolled DO NOT have to complete Algebra I prior to enrollment. This course satisfies the graduation requirement for one unit of Biology.

ADVANCED LABORATORY BIOLOGY

Course Code 0601 (In Class Resource Code 0602) Full Year
Grade 9 5 Credits

This study of biological concepts is laboratory oriented. It provides an overview of the chemical and structural basis of life including the interactions of organisms and the environment. This course covers the same topics as Laboratory Biology but in a more teacher directed, and student supported manner. Lab demonstrations, activities and group investigations are part of the curriculum. An emphasis is placed on the living organism as part of the biosphere and social organization of civilization. Students enrolled DO NOT have to complete Algebra I prior to enrollment. This course satisfies the graduation requirement for one unit of Biology.

Recommended Prerequisite: Grade 8 Science (≥80)

HONORS LABORATORY BIOLOGY

Course Code 0621 Full Year
Grade 9 5 Credits

A laboratory study of molecular biology, plant and animal physiology, microbiology, and genetics which stresses the importance of laboratory skills as a fundamental basis of inquiry and investigation. Concepts are developed through a series of experimental problems which give the student an opportunity to learn through research, using the techniques employed by biologists. Because a college level textbook is used for this course, reading comprehension, note taking and observational skills are essential.

Recommended Prerequisite: Grade 8 Science (≥90) with teacher recommendation

LABORATORY CHEMISTRY

Course Code 0632 (In Class Resource Code 0633) Full Year
Grade 10, Grade 11, Grade 12 5 Credits

This course is a college prep laboratory investigation of the properties and structure of matter and the changes matter undergoes. Fundamental concepts of atomic structure, periodicity, the natural laws, and the mathematics governing certain chemical phenomena are explored. Note taking and study skills are stressed as an integral part of the approach.

ADVANCED LABORATORY CHEMISTRY

Course Code 0603 (In Class Resource Code 0604) Full Year
Grade 10, Grade 11, Grade 12 5 Credits

Advanced Laboratory Chemistry is the study of matter and energy taken from the viewpoint of the materials and substances found in nature and in the laboratory. Students will study the principles of chemistry, develop problem solving skills, and will engage in data analysis through real life topics presented. Topics include compounds and elements, atomic structure, chemical bonding, measurement, chemical energy and reactions as the unifying concepts used to develop the course.

Recommended Prerequisite: Completed Algebra I and Biology (≥75) with teacher recommendation

HONORS LABORATORY CHEMISTRY

Course Code 0631 Full Year
Grade 10, Grade 11, Grade 12 5 Credits

Honors Laboratory Chemistry is a lab-oriented course designed to give the students the opportunity to understand the fundamental concepts of the properties and structure of matter and the changes it undergoes. The course offers a solid foundation for those students whose career choice requires a background in the sciences. Mathematical processes of problem solving, particularly those skills taught in Algebra I and Algebra II, are used extensively throughout the course.

Recommended Prerequisite: Algebra I (≥80) and Honors Biology (≥85) or Biology (≥93) with teacher recommendation

LABORATORY PHYSICS

Course Code 0642 (In Class Resource Code 0643) Full Year
Grade 11, Grade 12 5 Credits

Topics covered in this course include motion, forces, energy, and momentum. The concepts are presented through experiments, demonstrations, and theories which lead to mathematical application through problem solving using basic algebraic skills. Organizational skills and study skills are emphasized in this course. A digital portfolio of learning activities and projects is maintained throughout the course.

Recommended Prerequisite: Completion of Algebra I

ADVANCED LABORATORY PHYSICS

Course Code 0605 (In Class Resource Code 0607) Full Year
Grade 11, Grade 12 5 Credits

This course investigates the physical forces and laws which govern our universe. It is a laboratory-oriented examination of energy, waves, force, motion, mechanics, sound, light, electricity and magnetism. The interrelationships of natural phenomena and mathematical concepts are explored. Observational skills and the ability to use deductive reasoning are important. The conceptual nature of physics is also explored with reference to daily applications.

Recommended Prerequisite: Chemistry (≥75) and completion of Algebra II or enrolled in Algebra II

HONORS LABORATORY PHYSICS

Course Code 0641 Full Year

Grade 11, Grade 12 5 Credits

Honors Laboratory Physics is designed to give students a logical, sequential development of the understandings related field of study after high school. This lab-oriented course examines the fundamental aspects of mechanics, kinematics, dynamics, circular motion, sound, light, electricity and magnetism as they are interrelated in Physics. Mathematical processes of problem solving, particularly Trigonometry, are used throughout the course. Students are required to do a major research project. Students wishing to enroll in this course must have earned a 93 average or better in a previous science course or an 85 average or better in Honors Laboratory Chemistry.

Recommended Prerequisite: Honors Laboratory Chemistry (≥80) or Laboratory Chemistry (≥90) with teacher recommendation

LABORATORY ASTRONOMY

Course Code 0608 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

In this project-driven science course, students will explore the cosmos. Laws, principles, and major concepts regarding stars, solar systems, galaxies, space, and time will be discussed. There will also be investigation into life in the universe, potential habitable environments, and the future of space exploration.

LABORATORY METEOROLOGY

Course Code 0609 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

In this lab science course, students will investigate phenomena dealing with Earth and its atmosphere. Students will study forces that act upon and cause major weather events. Weather predictions and forecasting will also be conducted.

LABORATORY OCEANOGRAPHY

Course Code 0617 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

This lab science course is designed to offer students the opportunity to study the dynamic nature of the ocean. Those enrolled should be considering a college major in the Marine/Environmental Sciences or looking to expand their knowledge of the coastal environment with an emphasis on the New Jersey shoreline. Topics covered include the geological, chemical, physical aspects of the ocean; this incorporates an in-depth look at the effects of the atmosphere, currents, tides, and waves that influence the ocean. This course is lab oriented and will include both hands-on and virtual lab experiences.

LABORATORY MARINE BIOLOGY

Course Code 0619 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

Laboratory Marine Biology is a course designed to offer students an in-depth look a life in the ocean. This includes a broad study or organisms ranging from the microscopic and simple to the large and complex. This is accomplished through learning the biology of various marine phyla and comparing representative organisms to trace the evolution of marine life. There will be a focus on our local New Jersey marine life and its role in shaping our culture and economy. Additionally, students will study the complex interrelationships that exist in marine ecology as well as the delicate nature of ocean resources. This course is lab oriented and will include both hands- on activities including dissections as well as virtual lab experiences.

LABORATORY FORENSIC SCIENCE

Course Code 0654 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

This semester laboratory course for juniors and seniors provides an introduction to the field of forensic science. The course of study includes the applications of forensic science concepts (which involves biology, chemistry, and physics) to analyze and investigate evidence that may be discovered in a criminal investigation. Classroom activities include laboratory investigations and activities, research projects, famous case studies, lab practicums, career exploration, and the infusion of technology throughout the scope of the course.

Recommended Prerequisite: Any level of Biology or Chemistry completed

LABORATORY HORTICULTURE

Course Code 0629 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

Horticulture course will expose students to the world of scientific plant research and production. Students will have experiences in various plant science concepts through laboratory-based activities and projects. Student experiences will include the study of plant cells and photosynthesis, plant classification, non-vascular plants, the vascular system, leaves and trees, plant reproduction, plant adaptation, and plant diseases. Students will learn how to apply scientific knowledge and skills to use plants effectively for horticultural research, production, and in the creation of landscape designs. Students will discover the value of plant production and its impact on the individual, the local, and the global economy

Recommended Prerequisite: Any level of Biology completed

ADVANCED PLACEMENT BIOLOGY

Course Code 0620 Full Year

Grade 11, Grade 12 10 Credits

This course is modeled on the outline established by the College Board to prepare the student for the AP Exam in Biology. The course content exceeds that of Laboratory Biology with more intense and self-directed study of major principles. This course is recommended for those college bound students who have completed Biology and Chemistry and desire a more detailed study of applied Biology Concepts. This course is especially relevant for students who are planning to pursue a biology or medically related major in college. The student will be prepared for and expected to take the AP Exam in the Spring. *Summer work is required of all students who enroll in this course.

Recommended Prerequisite: Honors Laboratory Biology (≥80) or Advanced Laboratory Biology (≥90) with teacher recommendation

ADVANCED PLACEMENT CHEMISTRY

Course Code 0630 Full Year

Grade 11, Grade 12 10 Credits

This course is modeled on the outline established by the College Board to prepare the student for the AP Exam in Chemistry. The course content offers the student a more intensive investigation of the major principles and mathematical concepts. All students enrolled in the course must take the AP Exam in the Spring. *Summer work is required of all students who enroll in this course.

Recommended Prerequisite: Honors Laboratory Chemistry (≥80) or Advanced Laboratory Chemistry (≥90) with teacher recommendation

ADVANCED PLACEMENT LABORATORY ENVIRONMENTAL SCIENCE

Course Code 0618 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

AP Environmental Science is an interdisciplinary lab course that covers the scientific, social, and economic principles and concepts necessary to understand the natural world and its relationship with humanity. It will incorporate a wide variety of topics from diverse areas of study, including: biology, chemistry, physics, geology, populations, land and water use, energy resources and consumption, pollution, and global change. Additionally, students will qualitatively and quantitatively analyze environmental problems both natural and man- made, evaluate the risks associated with these problems, and examine alternative solutions for resolution and prevention. All students enrolled in the course must take the AP Exam in the Spring *Summer work is required of all students who enroll in this course.

Recommended Prerequisite: Completed Chemistry with Honors Laboratory Biology (≥80) or Advanced Laboratory Biology (≥90) with teacher recommendation

ADVANCED PLACEMENT PHYSICS I

Course Code 0606 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

Advanced Placement Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, conservation, and waves. All students enrolled in the course must take the AP Exam in the Spring *Summer work is required of all students who enroll in this course.

Recommended Prerequisite: Honors Laboratory Chemistry (≥80) or Advanced Laboratory Chemistry (≥90) with teacher recommendation

ADVANCED PLACEMENT PHYSICS C

Course Code 0644 Full Year

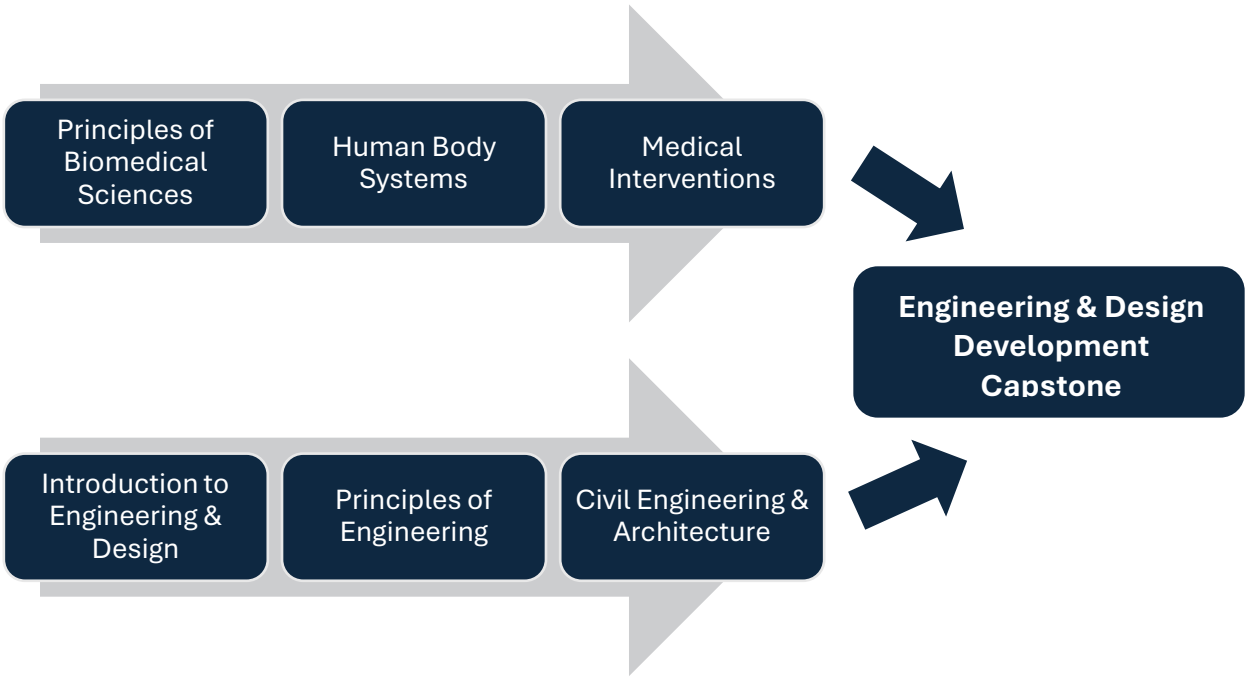
Grade 12 10 Credits

AP Physics C is an intense and mathematically rigorous course designed for the student who intends to pursue a career in the sciences or engineering. This rigorous S.T.E.M. course utilizes the mathematical techniques of Calculus extensively. The course is designed to provide the stimulating challenge of college level study and is equivalent to two semesters of Calculus-based college-based Physics. Mechanics and AP Physics C Electricity and Magnetism. Topics in Mechanics include kinematics, Newton's laws of motion, work, energy and power, circular motion, oscillations and gravitation and rotational dynamics. Topics in Electricity and Magnetism include electrostatics, circuits, electromagnetism, and Maxwell's equations. All students enrolled in the course must take the AP Exam in the Spring.

Recommended Prerequisite: Honors Physics or AP Physics I and mandatory completion or concurrent enrollment in Calculus. There will be no exceptions made to the Calculus prerequisite, since it is essential that students be proficient in Calculus to be successful in this course. It is recommended that students have a grade of 85 or better in Honors Physics or AP Physics I before selecting this course.

Project Lead the Way

Department Supervisor: Mr. Craig Murin



INTRODUCTION TO ENGINEERING & DESIGN (PLTW)

Course Code 0862 — Full Year

Grade 9, Grade 10, Grade 11, Grade 12 — 5 Credits

The major focus of the course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation. Students use 3D solid modeling design software to help them design solutions to solve proposed problems and learn how to document their work and communicate solutions to peers and members of the professional community. The course will be the introductory course in the Pre-Engineering strand of courses. These courses will be offered as high-level electives for students who wish to pursue Engineering in college, gain valuable experience with the integration of CAD/CAM technology with Engineering and Industrial Design. When finished, the students will be able to market their skills not only in applying to colleges of their choice, but also market those skills in a growing, very competitive, global economy. The curriculum will have both horizontal and vertical articulation, matching the students' needs and growing skills throughout their coursework. These courses will also be designed as a compliment to the current and evolving Industrial Arts Program, focusing on creative, "hands-on", problem solving and craftsmanship. This blend of contemporary and traditional coursework will be designed to reach all learners and encourage students to experience both.

PRINCIPLES OF ENGINEERING (PLTW)

Course Code 0864 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

Principles of Engineering (POE) is a high school-level survey course of engineering. The course exposes students to some of the major concepts that they will encounter in a postsecondary 34 engineering course of study. Students have an opportunity to investigate engineering and high-tech career. POE gives students the opportunity to develop skills and understanding of course concepts through activity, project, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem-solving skills based upon engineering concepts. It also allows students to develop strategies to enable and direct their own learning, which is the goal of education. Students will employ engineering and scientific concepts in the solution of engineering design problems. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community. Principles of Engineering is the second of three foundation courses in the Project Lead the Way high school engineering program. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology.

Recommended Prerequisite: Introduction to Engineering & Design

CIVIL ENGINEERING & ARCHITECTURE

Course Code 0649 Full Year

Grade 11, Grade 12 5 Credits

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 the CEA 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.

PRINCIPLES OF BIOMEDICAL SCIENCES (PLTW)

Course Code 0650 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

In this course, students explore concepts of biology and medicine as they take on the roles of different medical professionals to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene to solve a mystery diagnosing and proposing treatments to patients in a family medical practice, to tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical.

Recommended Prerequisite: Honors Laboratory Biology (≥80) or Advanced Laboratory Biology (≥90) with teacher recommendation

HUMAN BODY SYSTEMS (PLTW)

Course Code 0651 Full Year

Grade 11, Grade 12 5 Credits

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs, and tissues on a skeletal Maniken data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

Recommended Prerequisite: Biomedical Sciences, Honors Laboratory Biology (≥80) or AP Biology

MEDICAL INTERVENTIONS

Course Code 0653 Full Year

Grade 11, Grade 12 5 Credits

Students investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in Human DNA; evaluate cancer treatment options; and prevail when the organs in the body begin to fail. Through real world cases, students are exposed to a rand of interventions related to immunology, surgery, genetics, pharmacology, medical devices and diagnostics.

Prerequisite: Human Body Systems

ENGINEERING & DESIGN DEVELOPMENT CAPSTONE (PLTW)

Course Code 0659 Full Year

Grade 11, Grade 12 5 Credits

The knowledge and skills acquired throughout the PLTW Engineering pathway concludes with this capstone course. Students identify an issue and then research, design and test a solution, ultimately presenting their solution to a panel of professionals. Students apply the professional skills they have developed to document a design process to standards, completing course ready to take on any post-secondary program or career.

Prerequisite (2 of 3 Required): Introduction to Engineering & Design or Principles of Engineering or Civil Engineering & Architecture

World Language

Department Supervisor: Mrs. Maria Eldridge

French

FRENCH I

Course Code 0411 Full Year
Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

In the first year of study of French, the students learn to communicate orally and in writing on an elementary level in the foreign language. Within the constraints of the vocabulary and structure that the students have mastered, they will use French to engage in conversation, understand and interpret spoken and written language, and present information, concepts, and ideas through speaking and writing. Authentic materials and real-life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. During this study, the students will compare their native language, culture, and perspectives to that of the French speaking world.

FRENCH II

Course Code 0414 Full Year
Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

In the second year of the study of French, the student learns to communicate orally and in writing on a more complex level in the target language. All the material introduced in the first year is reinforced and the students' progress to the next level in their ability to communicate and interpret language and culture. The length and depth of the materials used increases and the students' speaking, reading, and writing tasks become less guided. Authentic materials and real-life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. As the students' proficiency level increases, the more they are required to use the target language throughout the instructional period.

HONORS FRENCH II

Course Code 0413 Full Year
Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

This course is designed for linguistically motivated students who wish to pursue their study of a world language in greater depth than is possible in regular class. The students will continue to enhance their oral and written communication skills, understand and interpret both spoken and written French and apply their knowledge in novel real-world situations. Authentic materials and real-life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. An exploration of the francophone world in comparison to their own will continue through the study of language, culture and perspectives. Working at an accelerated pace and using more complex materials, the students will be expected to demonstrate language skills equivalent to a third-year level. Students must meet the established criteria to enter an honors course.

FRENCH III

Course Code 0417 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

The purpose of the course is to meet the needs of those students who wish to increase their ability to read, write, comprehend and speak French. An investigation of other cultures and their relation to the students' own continues. The third level of linguistic skills is presented through more complex and lengthy materials. Authentic materials and real-life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. As the students continue with more advanced language concepts, students are required to use French to convey their own ideas in writing and speaking rather than relying on guided responses.

HONORS FRENCH III

Course Code 0416 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

This course is designed for linguistically motivated students who wish to pursue their study of a world language in greater depth than is possible in a regular class. The students will continue to enhance their interpretive, interpersonal, and presentational communicative skills. Using materials which encompass level 3 and 4 work, the students begin the study of more advanced linguistic skills through more complex auditory materials, literature, and writing assignments. Authentic materials and real-life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. Students must meet the established criteria to enter an honors course.

FRENCH IV

Course Code 0419 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

The students will continue to enhance their interpretive, interpersonal, and presentational communicative skills. The students begin the study of more advanced linguistic skills through complex auditory materials, literature, and writing assignments. Authentic materials and real-life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. Cultural, linguistic and ideological links are made between the students' world and those who speak French.

HONORS FRENCH IV

Course Code 0418 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

This course is designed for linguistically motivated students who wish to pursue their study of a world language in greater depth than is possible in a regular class. The students will continue to enhance their interpretive, interpersonal, and presentational communicative skills. Using more complex auditory materials, literature and writing assignments, the students begin this advanced study which will ultimately prepare them for an advanced-beginner or intermediate level college course. Authentic materials and real-life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. Cultural, linguistic and ideological links are made between the students' world and those who speak French. Students must meet the established criteria to enter an honors course.

ADVANCED PLACEMENT FRENCH LANGUAGE & CULTURE

Course Code 0420 Full Year

Grade 11, Grade 12 5 Credits

The Advanced Placement French Language & Culture course is designed to prepare the students for the AP Exam. Instructors follow a rigorous curriculum approved by College Board. Students who wish to accelerate their study of French in college should prepare for this examination. It is open to all students who have completed French IV Honors or its equivalent. It is an intense study of French language and culture through authentic speaking, listening, reading and writing tasks. Students must meet the established criteria to enter an honors course. All students enrolled in the course must take the AP Exam in the Spring.

Spanish

CONVERSATIONAL SPANISH

Course Code 0435 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

This course, a modified version of Spanish I, presents students with an exposure to the Spanish language and culture, through vocabulary study and grammar skill-building.

SPANISH I

Course Code 0421 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

In the first year of study of Spanish, the students learn to communicate orally and in writing on an elementary level in the foreign language. Within the constraints of the vocabulary and structure that the students have mastered, they will use Spanish to engage in conversation, understand and interpret spoken and written language, and present information, concepts, and ideas through speaking and writing. Authentic materials and real-life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. During this study, the students will compare their native language, culture, and perspectives to that of the Hispanic world.

SPANISH II

Course Code 0424 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

In the second year of the study of Spanish, the student learns to communicate orally and in writing on a more complex level in the target language. All the material introduced in the first year is reinforced and the students' progress to the next level in their ability to communicate and interpret language and culture. The length and depth of the materials used increases and the students' speaking, reading, and writing tasks become less guided. Authentic materials and real-life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. As the students' proficiency level increases, the more they are required to use the target language throughout the instructional period.

HONORS SPANISH II

Course Code 0423 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

This course is designed for linguistically motivated students who wish to pursue their study of a world language in greater depth than is possible in a regular class. The students will continue to enhance their oral and written communication skills, understand and interpret both spoken and written Spanish and apply their knowledge in novel real-world situations. Authentic materials and real-life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. An exploration of the Hispanic world in comparison to their own will continue through the study of language, culture and perspectives. Working at an accelerated pace and using more complex materials, the students will be expected to demonstrate language skills equivalent to a third-year level. Students must meet the established criteria to enter an honors course

SPANISH III

Course Code 0427 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

The purpose of the course is to meet the needs of those students who wish to increase their ability to read, write, comprehend and speak Spanish. An investigation of other cultures and their relation to the students' own continues. The third level of linguistic skills is presented through more complex, and lengthy materials. Authentic materials and real-life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. As the students continue with more advanced language concepts, students are required to use Spanish to convey their own ideas in writing and speaking rather than relying on guided responses.

HONORS SPANISH III

Course Code 0426 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

This course is designed for linguistically motivated students who wish to pursue their study of a world language in greater depth than is possible in a regular class. The students will continue to enhance their interpretive, interpersonal, and presentational communicative skills. Using materials which encompass level 3 and 4 work, the students begin the study of more advanced linguistic skills through more complex auditory materials, literature, and writing assignments. Authentic materials and real-life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. Cultural, linguistic and ideological links are made between the students' world and those who speak Spanish. Students must meet the established criteria to enter an honors course.

SPANISH IV

Course Code 0429 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

The purpose of this course is to continue the cycle of language study in high school. More advanced linguistic skills through complex auditory materials, literature, and writing assignments are presented. Authentic materials and real-life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. Speaking is emphasized through class discussions. The history, geography, and cuisines of the Hispanic World are also studied. Spanish IV also presents a variety of short stories and authentic newspaper articles to read and discuss.

HONORS SPANISH IV

Course Code 0428 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

This course is designed for linguistically motivated students who wish to pursue their study of a world language in greater depth than is possible in a regular class. The students will continue to enhance their interpretive, interpersonal, and presentational communicative skills. Using more complex auditory materials, literature and writing assignments, the students begin this advanced study which will ultimately prepare them for an advanced-beginner or intermediate level college course. Authentic materials and real-life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. Cultural, linguistic and ideological links are made between the students' world and those who speak Spanish. Students must meet the established criteria to enter an honors course.

ADVANCED PLACEMENT SPANISH LANGUAGE & CULTURE

Course Code 0430 Full Year

Grade 11, Grade 12 5 Credits

The Advanced Placement Spanish Language & Culture course is designed to prepare the students for the AP Exam. Instructors follow a rigorous program approved by the College Board. Students who wish to accelerate their study of Spanish in college should prepare for this examination. This course is open to all students who have completed Spanish IV Honors or its equivalent. It is an intense study of Spanish language through speaking, listening, reading and writing. Summarizing and synthesizing techniques are developed through readings and cultural aspects of the language. Students must meet the established criteria to enter an honors course. All students enrolled in the course must take the AP Exam in the Spring.

Italian

ITALIAN I

Course Code 0450 Full Year
Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

In this first-year Italian course, students learn to communicate spontaneously, interpret oral and written language and present concepts, ideas, and cultural awareness in the target language. Within the constraints of the vocabulary and structures that students have mastered, they will be asked to demonstrate novice-level communicative proficiency and a degree of mastery with specific skills and structures in listening, speaking and writing tasks. Authentic materials and real- life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum.

ITALIAN II

Course Code 0452 Full Year
Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

In the second year of the study of Italian, the students learn to communicate orally through speaking and writing on a more complex level in the target language. All the material introduced in the first year is reinforced as the students' progress to the next level in their ability to communicate and interpret language and culture. The length and depth of the materials used increases the students' speaking, reading and writing through content-based themes. These themes are aligned to authentic materials and real-life situations which make learning applicable to everyday local and global situations. As the students' proficiency level increases, the more they are required to utilize the target language throughout the instructional period.

HONORS ITALIAN II

Course Code 0454 Full Year
Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

This course is designed for linguistically motivated students who wish to pursue their study of a world language in greater depth than is possible in a regular class. In this level, students will continue to enhance their oral and written communication skills, understand both spoken and written Italian and continue to apply their knowledge in real life situations. Presentations and interactions with native speakers are an integral part of the curriculum. An exploration of the Italian world in comparison to their own will continue through the study of language, culture and perspectives. Working at an accelerated pace and using more complex materials, students will be expected to demonstrate language skills equivalent to a third-year level. Students must meet the established criteria to enter an honors course.

ITALIAN III

Course Code 0456 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

The purpose of this course is to meet the needs of those students who wish to increase their ability to read, write, comprehend and speak Italian. An investigation of other cultures and their relation to the students continues at this level. The third level of linguistic skills is presented through more complex and lengthy materials. The length and depth of the materials increases in order to expand the students' speaking, reading and writing through content-based themes. These themes are aligned to authentic materials and real-life situations which make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. As the students continue with more advanced language concepts, students are required to use Italian to convey their own ideas in writing and speaking rather than relying on guided responses.

HONORS ITALIAN III

Course Code 0458 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

This course is designed for linguistically motivated students who wish to pursue their study of a world language in greater depth than is possible in a regular class. In this level, students will continue to enhance their interpretive, interpersonal and presentational communicative skills. Utilizing materials which encompass Level 3 and 4 work, the students begin the study of more advanced linguistic skills through complex auditory materials, literature, writing assignments and formal presentations. These themes are aligned to authentic materials and real-life situations which make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. Cultural, linguistic and ideological links are made between the students' world and the Italian world. Students must meet the established criteria to enter an honors course.

ITALIAN IV

Course Code 0460 Full Year

Grade 11, Grade 12 5 Credits

This course is designed for linguistically motivated students who wish to pursue their study of a world language in greater depth than is possible in a regular class. In this level, students will continue to enhance their interpretive, interpersonal and presentational communicative skills. Utilizing materials which encompass Level 3 and 4 work, the students begin the study of more advanced linguistic skills through complex auditory materials, literature, writing assignments and formal presentations. These themes are aligned to authentic materials and real-life situations which make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. Cultural, linguistic and ideological links are made between the students' world and the Italian world. Students must meet the established criteria to enter an honors course.

HONORS ITALIAN IV

Course Code 0462 Full Year

Grade 11, Grade 12 5 Credits

This course is designed for linguistically motivated students who wish to pursue their study of a world language in greater depth than is possible in a regular class. The students will continue to enhance their interpretive, interpersonal, and presentational communicative skills. Through complex auditory materials, recordings, podcasts, writing assignments and literary works students begin this advanced study which will ultimately prepare them for the Advanced Placement Exam. All topics and activities are aligned accordingly. Authentic materials and real-life situations are infused in daily lessons to make learning applicable to everyday local and global situations. Presentations and interactions with native speakers are an integral part of the curriculum. Cultural, linguistic and ideological links are made between the students' world and those who speak Italian. Students must meet established criteria to enter an honors course.

ADVANCD PLACEMENT ITALIAN LANGUAGE & CULTURE

Course Code 0465 Full Year

Grade 11, Grade 12 5 Credits

The Advanced Placement Italian Language and Culture course takes a holistic approach to language proficiency and recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language control, communication strategies, and cultural awareness. Students engage in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products, both tangible and intangible, patterns of social interactions within a culture and perspectives. Students must meet the criteria to enroll in an honors class. All students enrolled in the course must take the AP Exam in the Spring.

Business

Department Supervisor: Dr. Matt Kukoda

WARRIOR TECHNOLOGY SEMINAR

Course Code 0143 Semester

Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits

This course is designed to equip students with essential skills in computer applications technology, emphasizing proficiency across multiple platforms and tools. Students will gain hands-on experience with Microsoft Office Suite, ensuring a comprehensive understanding of productivity applications. Instruction will also include an introduction to Canvas, preparing students to navigate and utilize this learning management system. Real-world simulations and project-based learning will provide students with practical scenarios to apply their skills in realistic environments, fostering critical thinking abilities.

BUSINESS & FINANCIAL LITERACY

Course Code 0111 Semester

Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits

Understanding and managing personal finances are key to one's future financial success. This course is based on the National and New Jersey State Financial Literacy standards and present essential knowledge and skills to make informed decisions about real world financial issues. Students will learn how choices influence occupational options and future earnings potential. Students will also learn to apply decision-making skills to evaluate career choices and set personal goals. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success.

SOCIAL MEDIA & INTERNET MARKETING

Course Code 0187 Semester

Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits

This course is designed to provide students with skills to create and manage communications information about a product or service to a specified target audience. Boost consumer engagement and strengthen brand loyalty through traditional and digital strategies. Explore marketing strategies and tactics to gain website traffic, brand exposure, consumer insight, customer engagement, and sales through social media platforms.

PRINCIPLES OF ACCOUNTING I

Course Code 0130 Semester

Grade 11, Grade 12 2.5 Credits

This course will provide the students with an introduction to accounting principles with an emphasis on the business side of maintaining systematic records for proprietorship. This course will cover journalizing general entries, posting to the general ledger, accounts payable, accounts receivable, cash control systems, worksheets, financial statements for a proprietorship, and adjusting/closing entries for a proprietorship. Academy of Finance advisory members and community resource speakers will be used to supplement and reinforce classroom instruction, as well as expose the students to career opportunities in this field.

PRINCIPLES OF MARKETING

Course Code 0128 Semester

Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits

Principles of Marketing I introduces students to the fundamentals of marketing, including the processes and strategies involved in creating, communicating, delivering, and exchanging value with customers. Topics include market research, consumer behavior, segmentation, branding, pricing strategies, promotional methods, and the role of digital marketing in today's business environment. Students will gain practical insights into how businesses identify and meet customer needs while fostering long-term relationships and adapting to competitive markets. This course emphasizes critical thinking and application through case studies, projects, and collaborative learning.

PRINCIPLES OF ACCOUNTING II

Course Code 0131 Semester

Grade 11, Grade 12 2.5 Credits

This course will provide the students with an advanced version of Principles of Accounting I with an emphasis on the business side of maintaining systematic records for a corporation. This course will cover journalizing purchases and cash payments, journalizing sales and cash receipts, posting to the general and subsidiary ledgers, accounting for payroll and payroll taxes, distributing dividends, financial statements for a corporation, and adjusting/closing entries for a corporation. Academy of Finance advisory members and community resource speakers will be used to supplement and reinforce classroom instruction, as well as expose the students to internship opportunities in this field.

Prerequisite: Principles of Accounting I

SPORTS & ENTERTAINMENT MARKETING

Course Code 0132 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

Sports & Entertainment Marketing will prepare students for college level business programs and introduce them to an area of business with which they may be unfamiliar. It is designed to develop a thorough understanding of the management & marketing concepts and theories that apply to sports promotion, sponsorship, product licensing, and entertainment event management and marketing. This course highlights communication skills, distribution, marketing-information management, pricing, product/service management, promotion, selling, operations, strategic management, human resource management, and the economic impact and considerations involved in the sports and event marketing industries. It is a specialized course for students with a career interest in the fields of sports and entertainment as well as marketing. Career opportunities in the marketing cluster will be introduced, including sports agent, client-side sports, agency side sports, corporate based sports and entertainment marketing.

FINANCIAL PLANNING

Course Code 0135 Semester

Grade 12 2.5 Credits

Students will be introduced to the financial planning process and the components of a comprehensive financial plan. They will learn how to prepare a financial plan that includes saving, investing in stocks, bonds and other securities, the proper use of credit, insurance, college and retirement planning. This college level course is offered in partnership with Georgian Court University's Course Ahead Program.

ENTREPRENEURSHIP

Course Code 0136 Semester

Grade 12 2.5 Credits

Entrepreneurship provides the student with insight into the development and management of an entrepreneurial venture. Topics will include evaluation of a new business idea, developing a business plan, finding alternative methods of financing, managing for results, pricing strategies and management control, business ethics and marketing. This college level course is offered in partnership with Georgian Court University's Course Ahead Program.

DIGITAL MEDIA TECHNOLOGY I

Course Code 0340 Semester

Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits

This course provides students with a comprehensive foundation in digital media production and technology. Students will explore the fundamentals of graphic design, video editing, audio production, animation, and photography, using industry-standard software and tools. Emphasis is placed on creative problem-solving, visual storytelling, and technical skills development. Students will engage in hands-on projects to create digital content while learning about the ethical and professional standards of media production.

DIGITAL MEDIA TECHNOLOGY II

Course Code 0341 Semester

Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits

Building on the skills developed in Digital Media Technology I, this course delves deeper into the creative and technical aspects of digital media production. Students will refine their abilities in video production, motion graphics, advanced graphic design, and multimedia storytelling. Emphasis is placed on project-based learning, where students work on real-world assignments, collaborate on team projects, and explore emerging trends in digital media technology.

Prerequisite: Digital Media Technology I

21ST Century Life & Careers

Department Supervisor: Dr. Matt Kukoda

FOOD & CULTURE

Course Code 0865 Full Year

Grade 11, Grade 12 5 Credits

Students will learn the culinary background, meal customs, and staple foods of foreign countries. The class will prepare relative recipes of the geographic area being covered, including holiday foods. As a semester project, students will conduct research of a selected country, presenting their findings, menu of typical dishes, and a representative food sample. Expand your culinary appreciation with cultural foods and cooking techniques.

BASIC FOODS

Course Code 0820 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

Basic Foods is an introductory course in nutrition and foods. The curriculum explores proper nutrition and its relation to improved health, physical performance, and disease prevention. Various food preparations provide practice in basic cooking techniques and organization to promote independence and food knowledge. Focus on an ideal diet and lifestyle are presented through units based on the current USDA MY Plate model of fruits, vegetables, proteins, grains and dairy foods.

MATERIALS & METHODS IN TECHNOLOGY I

Course Code 0815 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

This course is designed to introduce the student to both traditional and modern materials used in today's technologies. The students will discover through hands-on problem-solving activities how materials are processed and used in today's technologies. They will also look at how materials are changed from raw materials into finished products. Materials covered will include wood, metals, plastics, composites, semiconductors, and newly emerging materials. Students will learn how these materials are processed and combined to meet the needs of modern day living. A section of the course will be on the careers in these areas and how advancements in the area of materials and processes have shaped our world.

MATERIALS & METHODS IN TECHNOLOGY II

Course Code 0816 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

Materials and Methods in Technology II course is designed for students who completed Materials and Methods in Technology I. This course will build on the objectives, goals, and project-based assignments that students completed in the introductory course. There will be greater focus on documenting the design continuum in addition to covering all the material families. Kinesthetic learning experiences will allow students to analyze the outcome of manipulating various materials to solve different problems. The students will also gain greater technological literacy as a result of practical problem solving in the classroom.

PRINT MEDIA PUBLICATION

Course Code 0285 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

Print Media Publication I is a course designed for students looking to pursue careers and passions in the areas of writing, photojournalism, business, or digital and graphic design. Academic coursework will explore the necessary skills, organizational structures, and job roles, within the print-based media industry; the financial issues and market trends affecting the industry; and the legal, ethical, and professional obligations of print media publication. In addition, students will receive hands-on training that will include overseeing the start-to-finish production of the Manasquan High School yearbook and maintenance of MHS's online SNO site. Additional field opportunities and student internships may also be available through enrollment in this course.

PRINT MEDIA PUBLICATION II

Course Code 0286 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

This course is designed for those students who would like to continue their study of print media and take a leadership role in the organization, publication and sale of the Manasquan High School yearbook. Students will continue to develop their skills in writing, photojournalism, digital and graphic design. It will be this group's responsibility to ensure that all publications, specifically the school yearbook, meet the established criteria, are properly edited, and page deadlines as well as financial responsibilities are met.

Prerequisite: Print Media Publication I

CONSTRUCTION TECHNOLOGY

Course Code 0817 Full Year

Grade 11, Grade 12 5 Credits

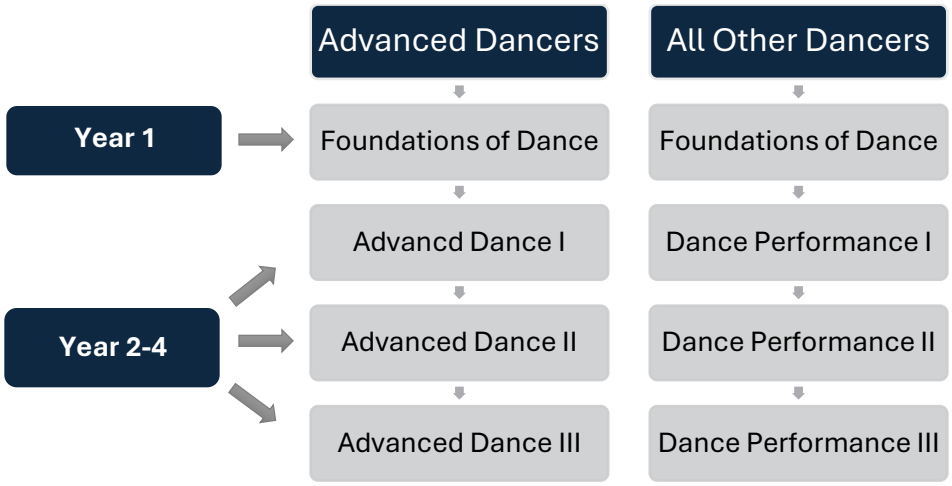
Construction Technology provides students with experience in the construction industry. A systems approach to construction will be studied. Some systems covered will include foundation, floor, wall, electrical, plumbing, and HVAC. Students will be involved with construction techniques and the estimating/planning process. Students will also gain valuable experience in exterior and interior design. Advanced areas of study will include agriculture, transportation, space, and underwater construction.

Prerequisite: Materials and Methods in Technology I

Performing Arts

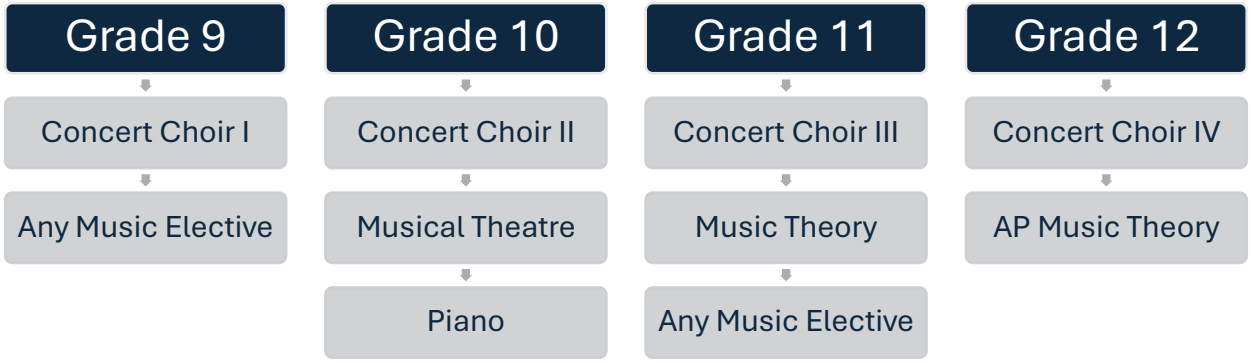
Department Supervisor: Dr. Matt Kukoda

Dance Course Sequencing



Vocal Course Sequencing

Possible Pathways



INTRODUCTION TO MUSIC

Course Code 08011 — Semester

Grade 9, Grade 10, Grade 11, Grade 12 — 2.5 Credits

In this course, students will learn about all the basics of music, including instrument families, historical time periods of music, the building blocks of music, and how to read music notation. At the end of the semester, the students will complete a project which allows them to study how the elements of music are used in a current popular song of their choice. Examples of songs which have been studied include Happy by Pharell Williams, Would by Alice in Chains, Bennie and the Jets by Elton John, and Cherry Waves by Deftones.

MUSIC THEORY
Course Code 0805 Semester
Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits
This semester course focuses on rudimental music theory concepts, ear training, and keyboard skills. Theoretical concepts include major and minor scales, intervals, triads, seventh chords, and counterpoint. Basic musical analysis as well as composition are also covered.

MUSIC TECHNOLOGY
Course Code 08031 Semester
Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits
Students will explore music using technology. They will first study the history of music production and the development of music technology. This will be followed by a unit in which they learn the basics uses and applications of a music software application called Soundtrap. They will learn how to navigate Soundtrap and be expected to create their own music using Soundtrap (knowledge of playing an instrument is not necessary). The students will then study microphones and mixers, the main components in sound reinforcement, which is the art of producing live concerts and recording sessions. The final unit will see the students learning how to use a piece of music software called Noteflight, in which they learn how to input music into the computer. This is a key component in music publishing, another viable music career.

PIANO
Course Code 08091 Semester
Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits
Students will study pedagogy and practice of piano performance. Students will learn scales, chords, basic music theory, and repertoire. This is a beginner piano class. This course is not recommended for students who currently study piano privately. Students will learn scales, chords, basic music theory, and repertoire. Each day students will play the piano solo, with a peer, or as a class. There will be a combination of daily sight-reading, practicing, and performing in class. This class pairs excellently with Music Theory or Music Production.

WORLD MUSIC
Course Code 08012 Semester
Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits
World Music will take the students of Manasquan on a musical journey around the world, exploring music from various cultural traditions along the way. Students will listen to and study music from many different countries and discuss similarities and differences between the music of those countries and western music. They will also study the cultural issues related to music making of region of study.

MUSICAL THEATRE

Course Code 0813 Semester

Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits

Students will study four vocal selections, working in a masters-class format. Students will rehearse duets and full production numbers combining dance as well as studying the history of musical theatre and its relevance in our modern society. Throughout two marking periods, students will study four vocal solos from the classical, golden age, and contemporary periods of musical theatre. Students will rehearse duets and full production numbers combining dance as well as studying the history of musical theatre and its relevance in our modern society. By the end of the semester, students will have multiple 16 and 32-bar cuts, audition practice, a resume, headshot, and healthy/safe vocal technique. There will be a performance after-school at the end of the semester. Students should be able to read sheet music and feel comfortable singing solo in front of their peers before signing up for this class. It is recommended (not required) that this course is taken in conjunction with Concert Choir.

WARRIOR BAND I

Course Code 0841 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

The Warrior Band has received much recognition with performances at locations ranging from Disney World to Yankee Stadium to West Point, as well as numerous festivals and competitions. Fundamentals and techniques of instrumental music are learned through the preparation and performance of standard band literature at a variety of public performances. Marching, playing and music appreciation leading to college, semi-professional and amateur performing opportunities are part of the curriculum. Members of the Warrior Band are eligible to join the highly acclaimed MHS Jazz Band. The MHS Jazz Band rehearses and performs a variety of traditional, contemporary, as well as jazz-rock charts throughout the year.

WARRIOR BAND II

Course Code 0842 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

This course builds upon and is a continuation of skills and concepts taught in Warrior Band I.

Prerequisite: Warrior Band I

WARRIOR BAND III

Course Code 0843 Full Year

Grade 11, Grade 12 5 Credits

This course builds upon and is a continuation of skills and concepts taught in Warrior Band II.

Prerequisite: Warrior Band II

WARRIOR BAND IV

Course Code 0844 Full Year

Grade 12 5 Credits

This course builds upon and is a continuation of skills and concepts taught in Warrior Band I.

Prerequisite: Warrior Band III

CONCERT CHOIR I

Course Code 0802 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

Students will strengthen their singing voice, collaborate with their peers, and study choral music across all time periods, including today's pop music and musical theatre. By the end of the year, students will understand basic music theory and piano, conducting, harmonizing, performance etiquette, and vocal/breathing technique. There are opportunities for solos and the potential to go on performance trips to Dorney Park, Six Flags, Rowan University, and more! There will be two large concerts a year, both in the Winter and Spring, as well as performances with the sending districts, Warrior Band, and at other Visual and Performing Arts Academy events. Participation in choir is essential for everyone going into a music- related career.

CONCERT CHOIR II

Course Code 0804 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

This course builds upon and is a continuation of skills and concepts taught in Concert Choir I.

Prerequisite: Concert Choir I

CONCERT CHOIR III

Course Code 0806 Full Year

Grade 11, Grade 12 5 Credits

This course builds upon and is a continuation of skills and concepts taught in Concert Choir II.

Prerequisite: Concert Choir II

CONCERT CHOIR IV

Course Code 0807 Full Year

Grade 11, Grade 12 5 Credits

This course builds upon and is a continuation of skills and concepts taught in Concert Choir II.

Prerequisite: Concert Choir III

JAZZ IMPROVISATION I

Course Code 0882 Semester

Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits

This course is designed to teach motivated instrumentalists the art of jazz improvisation. The student will master major and minor scales and specific jazz modes. A working knowledge of jazz history is introduced as well as music theory and ear training. Standard jazz tunes are learned and performed by the class in a combo format.

JAZZ IMPROVISATION II

Course Code 0879 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

This course builds on the concepts and skills developed in the Jazz Improvisation I course. More advanced concepts include solo transcription, melodic dictation, jazz style along with required performance of all modes and seventh chords. Students will be expected to improvise solos on their instruments that are both stylistically and theoretically accurate to the chosen piece and time period.

Prerequisite: Jazz Improvisation I

AP MUSIC THEORY

Course Code 0885 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

A full year course designed to prepare students to take the AP Music Theory Exam. Instruction will be focused on the fundamentals learned in the Music Theory class as well as more advanced concepts such as chord inversions, harmonic analysis, three- and four-part voice leading, secondary dominants, non-chord tones, and cadences. The development of aural skills is also extensively covered ie: interval identification, melodic dictation, rhythmic dictation and sight singing.

Prerequisite: Music Theory

INTRODUCTION TO ACTING

Course Code 0877 Semester

Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits

This course is a basic introduction to the art of acting. Students will learn a basic history of the stage, basic acting methodology, techniques, voice and stage presence. Students will also learn how to prepare for a role and develop a stage character. Students will use improvisation as a theatre technique.

FOUNDATIONS OF DANCE

Course Code 0846 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

This first level of dance emphasizes the development of dance technique in various dance genres. Students are expected to strive toward a high proficiency in dance. Students will showcase their technique in multiple performance opportunities throughout the year. Students will develop self-discipline and teamwork through group movement studies and repetition. Students will also be exposed to dance history and dance terminology.

DANCE PERFORMANCE I

Course Code 0847 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

Dance performance emphasizes an in-depth development of dance techniques in various dance genres. Students are expected to build from their foundational skills developed in Foundations of Dance. Students will develop and refine self- disciplinary, communicative, and collaborative skills. Students will learn strengthening and condition exercises, respond and connect to dance, and create choreography. These topics will progressively build each year as students' complete levels I, II, and III. Students will be showcased in multiple performance opportunities throughout the year.

Prerequisite: Foundations of Dance

DANCE PERFORMANCE II
Course Code 0848 Full Year
Grade 11, Grade 12 5 Credits
This course builds upon and is a continuation of skills and concepts taught in Dance Performance I.
Prerequisite: Dance Performance I

DANCE PERFORMANCE III
Course Code 0866 Full Year
Grade 12 5 Credits
This course builds upon and is a continuation of skills and concepts taught in Dance Performance II.
Prerequisite: Dance Performance II

ADVANCED DANCE I
Course Code 0819 Full Year
Grade 10, Grade 11, Grade 12 5 Credits
The advanced dance course is designed for highly motivated dance students who will be exposed to advanced dance techniques in various dance genres. Through this exploration of advanced techniques, students will build on their technical dance skills, study anatomy and kinesiology, further develop improvisational and choreography skills, build portfolios and research career opportunities in the arts. These topics will progressively build each year as students' complete levels I, II and III. Students in this course will be challenged to build on their prior knowledge of dance and grow as an artist. Students will be showcased in multiple performance opportunities throughout the year.
Prerequisite: Foundations of Dance and teacher recommendation

ADVANCED DANCE II
Course Code 0837 Full Year
Grade 11, Grade 12 5 Credits
This course builds and is a continuation of skills and concepts taught in Advanced Dance I.
Prerequisite: Advanced Dance I and teacher recommendation

ADVANCED DANCE III
Course Code 0839 Full Year
Grade 12 5 Credits
This course builds and is a continuation of skills and concepts taught in Advanced Dance II.
Prerequisite: Advanced Dance II and teacher recommendation

Visual Arts

Department Supervisor: Dr. Matt Kukoda

ART I

Course Code 0758 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

Art I introduces the Elements and Principles of Art, the building blocks of an artwork, through the exploration of different media. This course will include drawing and other 2D media usage such as pastels and paints, as well as 3D media. The course will define what each element and principle is and how it is used and recognized in an artwork. An art analysis will be written on famous artworks throughout the course. At the end of the course students will have had the opportunity to work with various art media while defining, recognizing and creating the Elements and Principles of Art.

CULTURAL ARTS

Course Code 0849 Full Year

Grade 9, Grade 10, Grade 11, Grade 12 5 Credits

Cultural Arts will enable students to be exposed to many art mediums from cultures around the world. Students will be participating in a variety of projects. Some projects included in this course will be batik, weaving, printing on fabric, mask making and art research. By the end of the course, the students will have learned the skill of handling materials, exploration of techniques, and the development of personal and individual style.

FINE ARTS

Course Code 0858 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

Fine Arts will focus on media and composition in studio work. This course will include sketching, utilizing different medias, composition, design, and printmaking. This course emphasizes the personal investigation of methods and techniques related to acrylic painting and/or other water-based media. Research on famous artists and their techniques and styles will be involved. By the end of the course, students will have been exposed to a variety of materials and will have had the opportunity to develop techniques and personal styles.

Prerequisite: Art I

CERAMICS I

Course Code 0860 Semester

Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits

This Ceramics course is designed to introduce students to various ceramic hand building processes and a working knowledge of wheel thrown pottery. Emphasis will be placed on the design elements; line, shape, texture, and color. The course will integrate the design and construction of ceramic ware using a full spectrum of artistic tools, techniques and materials. Functional as well as sculptural applications will be explored. The students will also learn surface decoration and glazing methods. Art History, Criticism, Aesthetics and Careers will be studied with a focus on Ceramics. It is also highly recommended for students with an interest in art and art related careers.

CERAMICS II

Course Code 0800 Semester

Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits

This course continues to develop the students' skills in a variety of ceramic techniques that build on the skills they learned in Ceramics I. Projects will emphasize exploring an individual direction that encourages a deeper understanding of ceramic art as well as skill development. Studio experience will include wheel throwing, ceramic sculpture, advanced hand building, glazing and decorative techniques.

Prerequisite: Ceramics I

INTRODUCTION TO SCULPTURE

Course Code 0851 Semester

Grade 9, Grade 10, Grade 11, Grade 12 2.5 Credits

Students who enjoy working with clay, plaster, wood, wire, found objects and mixed media will thrive in this course. Sculpture is a universal art form which challenges all the senses in its creation and appreciation. The course concentrates on developing technical skills and artistic appreciation of successful three-dimensional artwork. Students will be introduced to sculpture techniques, combinations of media and resolution of 3-D design problems. Students will use a variety of methods, including assemblage, additive and subtractive methods, carving, manipulative methods and modeling. Creativity, craftsmanship, personal effort, critical thinking, are an intricate part of this course.

PAINTING

Course Code 0861 Full Year

Grade 10, Grade 11, Grade 12 5 Credits

Painting is one of the most classic and captivating forms of art. Today's designers use concepts from painting and drawing to develop exciting and new designs. Color theory and basic drawing skills are essential in an introduction to painting, along with the art history of the great painters of the past and the contemporary artists of today. By course end students will have gained a foundation centering on the elements and principles of design such as color, line, shape, texture, value, space, balance, movement and unity. Through the use of these elements and principles, students will explore different techniques and emphasize the importance of visual expression through specified media such as acrylic, oil, and watercolor paint.

Prerequisite: Art I

ADVANCED PLACEMENT STUDIO ART

Course Code 0857 Full Year

Grade 11, Grade 12 5 Credits

Painting is one of the most classic and captivating forms of art. Today's designers use concepts from painting and drawing to develop exciting and new designs. Color theory and basic drawing skills are essential in an introduction to painting, along with the art history of the great painters of the past and the contemporary artists of today. By course end students will have gained a foundation centering on the elements and principles of design such as color, line, shape, texture, value, space, balance, movement and unity. Through the use of these elements and principles, students will explore different techniques and emphasize the importance of visual expression through specified media such as acrylic, oil, and watercolor paint.

Prerequisite: Art I, one additional art class (≥80), portfolio review and teacher recommendation

Health & Physical Education

Department Supervisor: Mr. Donald Bramley

PHYSICAL EDUCATION I

Course Code 0711 — Three Quarters

Grade 9 — 3.75 Credits

The Physical Education program is designed to provide aerobic and bodybuilding activities enabling all students an opportunity to achieve total physical fitness. These activities aid in the development of strength, control, motor skills, endurance stamina and coordination. Students are educated by means of physical activity. Students participate in games of competition and skill development. A sense of sportsmanship and a positive attitude toward physical conditioning are encouraged.

HEALTH I

Course Code 0712 — One Quarter

Grade 9 — 1.25 Credits

The Health I course of study covers the area of personal health, human sexuality and chemical health education. The acquisition of knowledge, behaviors and attitudes about drugs/alcohol, smoking/nicotine, reproduction, abstinence, sexually transmitted diseases lead to a well-informed student capable of making sound decisions.

PHYSICAL EDUCATION II

Course Code 0721 — Three Quarters

Grade 10 — 3.75 Credits

The Physical Education program is designed to provide aerobic and bodybuilding activities enabling all students an opportunity to achieve total physical fitness. These activities aid in the development of strength, control, motor skills, endurance stamina and coordination. Students are educated by means of physical activity. Students participate in games of competition and skill development. A sense of sportsmanship and a positive attitude toward physical conditioning are encouraged.

HEALTH II

Course Code 0722 — One Quarter

Grade 10 — 1.25 Credits

The Health II course of study covers the areas of driver education and chemical health education. The classroom theory approach to driver education is offered to all sophomores. Instructional units include traffic laws and regulations, stopping distances, insurance, psychology of the driver as well as the effects of substance abuse on driving. Students are administered the NJ Division of Motor Vehicles written test during this course.

PHYSICAL EDUCATION III

Course Code 0731 Three Quarters
Grade 11 3.75 Credits

The Physical Education program is designed to provide aerobic and bodybuilding activities enabling all students an opportunity to achieve total physical fitness. These activities aid in the development of strength, control, motor skills, endurance stamina and coordination. Students are educated by means of physical activity. Students participate in games of competition and skill development. A sense of sportsmanship and a positive attitude toward physical conditioning are encouraged.

HEALTH III

Course Code 0732 One Quarter
Grade 11 1.25 Credits

The Health III course of study covers the area of First Aid/CPR and chemical health education. This course teaches The American Red Cross Standard First Aid course. This program is based on the use of The American Red Cross First Aid textbook and is adapted from the instructor's outline. The paramount purpose of first aid training is to acquire knowledge and skills for the emergency care of an injured victim until a physician or professional medical care person arrives. It also creates an active interest in the prevention of accidents through the elimination of causes. All participants are eligible for ARC certification.

PHYSICAL EDUCATION IV

Course Code 0741 Three Quarters
Grade 12 3.75 Credits

The Physical Education program is designed to provide aerobic and bodybuilding activities enabling all students an opportunity to achieve total physical fitness. These activities aid in the development of strength, control, motor skills, endurance stamina and coordination. Students are educated by means of physical activity. Students participate in games of competition and skill development. A sense of sportsmanship and a positive attitude toward physical conditioning are encouraged.

HEALTH IV

Course Code 0742 One Quarter
Grade 11 1.25 Credits

Health IV covers the areas of family living. The curriculum covers family life issues and provides seniors with the opportunity to structure guidelines to improve their self-esteem, self-awareness and interpersonal skills. The course covers topics on sexually transmitted infections, birth control methods, and abstinence. The course offers guest speakers that will come in the classroom and discuss these topics. The course also provides skills and strategies needed to solve personal family conflicts and living on their own. Students will examine their readiness for relationships – marriage – and the pitfalls to avoid. Students will also engage in a budget activity and understand the importance of good credit.

OPTION II for PHYSICAL EDUCATION

Course Code 0710 Three Quarters
Grade 10, Grade 11, Grade 12 3.75 Credits

The Manasquan School District encourages all pupils to participate fully in the physical education program. It recognizes, however, that some pupils are engaged in athletic, interscholastic, or other programs of vigorous physical activity, allowing for achievement of the New Jersey Student Learning Standards. Such pupils may, pursuant to rules of the State Board of Education, be excused from the required enrollment in a physical education course, while still earning credit for physical education. Please see a school counselor for more information on the qualifying pathways.

PEER LEADERSHIP I

Course Code 0798 Full Year
Grade 11 5 Credits

This course, for which students are recommended by classmates and staff, is designed to train students to help others as peer facilitators. Participants will become more effective listeners, problem solvers, group leaders and mentors for each other. As they learn to facilitate the personal growth and development of others their own development is enhanced.

PEER LEADERSHIP II

Course Code 0799 Full Year
Grade 12 5 Credits

This course builds upon and is a continuation of skills and concepts taught in Peer Leadership I

Prerequisite: Peer Leadership I

DYNAMICS OF HEALTHCARE IN SOCIETY

Course Code 0753 Semester
Grade 10, Grade 11, Grade 12 2.5 Credits

This course provides an orientation to health care services and their delivery. It presents an inter-disciplinary perspective, focusing on process skills such as critical thinking, ethical reasoning, effective communication and ways to continue independent learning throughout life. The course shows how all health care providers acquire professional competence in dealing with the issues and problems they face as well as the role they play as informed consumers. This course is taught in conjunction with Rutgers University accreditation. Students have the option of being tested to obtain college credits for this course. To participate in the Rutgers University Science Careers Program at Manasquan High School, and obtain college credit, students must complete the Dynamics of Health Care in Society course, as least one other course, and complete all other course requirements.

FUNDAMENTALS OF HEALTH & WELLNESS

Course Code 0770 Semester

Grade 10, Grade 11, Grade 12 2.5 Credits

This course provides a comprehensive overview of health and wellness. The impact of lifestyle choices on all aspects of personal health are discussed including physical, mental, emotional, social, and environmental. The course will explore topics related to nutrition, physical fitness, stress management, disease prevention, substance abuse, and healthy relationships. The information and skills necessary for making informed and healthful decisions to promote wellness will be discussed an emphasis on self-responsibility. This course is taught in conjunction with Rutgers University accreditation. Students have the option of being tested to obtain credits for this course.

SCIENTIFIC PRINCIPLES OF NUTRITION

Course Code 0752 Semester

Grade 11, Grade 12 2.5 Credits

This is an introductory course on human nutrition designed for students wanting practical information. Students will gain an understanding of the vital relationship of nutrients to health and physical fitness. Students will be able to evaluate current nutritional issues and controversies. This course is taught in conjunction with Rutgers University accreditation.

NUTRITION ACROSS THE LIFESPAN

Course Code 0795 Semester

Grade 11, Grade 12 2.5 Credits

Nutrition Across the Lifespan outlines life cycle nutrition including pregnancy and lactation, infancy, childhood and adolescence, adult and the later years. Nutrition needs at various stages of the lifespan are stressed, and additional topics include complementary and alternative medicine, hunger and the global environment, and concerns about food and water including the Servsafe® food handler course and exam. Applying the science of nutrition to the lifespan including prevention of chronic disease, food safety and biotechnology, and environmentally friendly food choices will be explored. This course is taught in conjunction with Rutgers University accreditation. Students have the option of being tested to obtain credits for this course.

MEDICAL TERMINOLOGY

Course Code 0756 Full Year

Grade 12 5 Credits

Medical Terminology is the study of words that pertain to body systems, anatomy, physiology, medical processes and procedures and a variety of diseases. It provides specialized language for the health care team, enabling health care workers to communicate in an accurate, articulate, and concise manner. This course is designed to give the students a comprehensive knowledge of word construction, definition, and use of terms related to all areas of medical science. The course includes, but it not limited to, terms related to anatomy of the human body, functions of health and disease, and the use of language in processing medical/dental records and claim forms. This course is taught in conjunction with Rutgers University accreditation. Students have the option of being tested to obtain college credits for this course.

Special Education

Department Supervisor: Mrs. Cindy Cimino

The special education programs for classified students are offered through the Office of Special Services. Student programs are selected in collaboration with the student, parents, and the high school child study teams. The district program offerings include:

ACADEMY

Grade 9, Grade 10, Grade 11, Grade 12

The Academy program is a small, structured learning environment for students with multiple disabilities who require a small, individualized and modified academic setting. The central focus of the program is the study of daily living skills essential for personal independence. Students participate in Work Based Leaning opportunities on school campus prior to turning 16, the students who are 16 and over participate in Work Based Leaning off campus. Community Based Instruction is also an essential element of the program; students have an opportunity to explore the community they live in to build skills that will support them in experiencing these activities independently. Instruction is provided based on IEP Goals and Objectives that support the academic, social, communication, and behavioral needs of each student, mastering these skills that help one live a full, productive, and independent life.

CENTER FOR INDEPENDENT LIVING (CLI)

The CLI program is a small, structured learning environment for students with multiple disabilities who require a small, individualized and modified academic setting and have fulfilled their high school graduation requirements, students are typical between the ages of 18-21. The central focus of the program is the study of daily living skills essential for personal independence. Students participate in Work Based Learning opportunities off campus, work placements are determined by student interest and ability. During their time in the CLI program students will have an opportunity to explore a variety of job placements. Community Based Instruction is also an essential element of the program; students have an opportunity to explore the community they live in to build skills that will support them in experiencing these activities independently. Instruction is provided based on IEP Goals and Objectives that support the academic, social, communication, and behavioral needs of each student, mastering these skills that help one live a full, productive, and independent life.

LEARNING & LANGUAGE DISABILITY PROGRAM

The LLD Program is designed to provide students who require greater academic and social support in the core academic subjects using a modified curriculum guide. Lessons are taught through a multi-sensory approach utilizing the universal design for leaning approach. Students may be provided with vocational opportunities to acquire job related skills through the Monmouth County Vocational School.

LIFE SKILLS PROGRAM

The Life Skills Program is a small, structured learning environment for students with disabilities who require a small, individualized and modified academic setting. Through the study and application of thematically organized instructional units, students will be provided with opportunities to develop a firm foundation in both academic and adult living skills. The approach to learning is multisensory and will draw on the individual strengths and needs of the students to gain a deeper understanding of course materials. Life Skills Program activities will allow students to make connections to other disciplines, their own life, and the world in general. An essential component of the Life Skills Program will be the Structured Learning opportunities embedded within the community. Community participation is essential to building confidence and empowerment, two qualities that are highly relevant to attaining personal satisfaction and a high-quality lifestyle. Structured learning opportunities will foster a student's individualized goals in the pursuit of developing and mastering skills that help one live a full, productive, and independent life.

IN-CLASS RESOURCE PROGRAM

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

International Baccalaureate

Department Supervisor: Dr. Matt Kukoda

IB ENGLISH LITERATURE

Course Code IB200 Full Year

Grade 11, Grade 12 10 Total Credits (5 Each Year)

This course runs for two years to develop an understanding of the techniques involved in literary criticism and promote the ability to form independent literary judgments. The course exposes students to a wide variety of texts in the subject's language, as well as texts in translation from other cultures. Students use these texts to study how literary conventions shape response to texts. This course enhances students' cultural perspectives while developing analytical skills and augmenting argumentative skills in clearly expressed writing. The texts for this course are selected from the International Baccalaureate's Prescribed List of Authors (PLA) and Prescribed Literature in Translation (PLT). The course's objectives include: encouraging a personal appreciation of literature and developing an understanding of the techniques involved in literary criticism; developing the students' power of expression, both in oral and written communication, and provide the opportunity of practicing and developing skills involved in writing and speaking a variety of styles and situation; introduce students to a range of literary works of different periods, genres, styles, and contexts; broadening the students' perspective through the study of works from other cultures and languages; introduce students to ways of approaching and studying literature, leading to the development of an understanding and appreciation of the relationship between different works; develop the ability to engage in close, detailed analysis of written text; and promote in students an enjoyment of, and lifelong interest in, literature.

IB SPANISH B

Course Code IB400 Full Year

Grade 11 5 Credits

This language acquisition course builds upon previous experiences of the target language and provides students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where the language studied is spoken. Students develop the ability to communicate by studying language, themes, and texts. The International Baccalaureate's five prescribed themes of study include identities, experiences, human ingenuity, social organization, and sharing the planet. The course's objectives include: developing international-mindedness through the study of languages, cultures, and ideas and issues of global significance; enabling students to communicate in the language they have studied in a range of contexts and for a variety of purposes; encouraging, through the study of texts and through social interaction, an awareness and appreciation of a variety of perspectives of people from diverse cultures; developing students' understanding of the relationship between the language and cultures with which they are familiar; developing students' awareness of the importance of language in relation to other areas of knowledge; providing students, through language learning and the process of inquiry, with opportunities for intellectual-engagement and the development of critical—and creative—thinking skills; providing students with a basis for further study, work, and leisure through the use of an additional language; fostering curiosity, creativity, and a lifelong enjoyment of language learning.

IB HISTORY

Course Code IB300 Full Year

Grade 11 or Grade 12 5 Credits

This course examines the power struggles that shaped cultures and societies within Europe as well as the impact that early European expansion had on other regions of the world. Focusing on the period from 750 until approximately 1500, we will look at the causes and effects of medieval wars and highlight dynasties and empires that rose and fell during this long but fascinating period of struggle. This International Baccalaureate world history course is based on a comparative and multi-perspective approach to history, which includes studying various historical topics such as politics, economics, social and cultural, to provide a balance of structure and flexibility. The course encourages students to think historically, develop historical skills, and gain factual knowledge. The course enriches students' ability to think critically and understand multiple interpretations of history. The objectives of this course include: developing an understanding of, and continuing interest in, the past; encouraging students to engage with multiple perspectives and to appreciate the complex nature of historical concepts, issues, events, and developments; promoting international-mindedness through the study of history from more than one region of the world; develop an understanding of history as a discipline and to develop historical consciousness including a sense of chronology and context, and an understanding of different historical skills, including engagement effectively with sources; increase students' understanding of themselves and of contemporary society by encouraging reflection on the past.

**In order to meet the International Baccalaureate course requirements, students may need to participate in class experiences outside of regular class time*

IB PSYCHOLOGY

Course Code IB350 Full Year

Grade 11, Grade 12 10 Total Credits (5 Each Year)

This course runs for two years and may only be selected as an alternative to the IB Group 6 class, Dance HL. This course introduces three different approaches to understanding behaviors: the biological, cognitive, and sociocultural perspectives. Students study and critically evaluate knowledge, concepts, theories, and research that have developed the understanding in these fields. The interaction of these approaches to studying psychology forms the basis of holistic and integrated approach to understanding mental processes and behavior as a complex, dynamic phenomenon, allowing students to appreciate the diversity and commonality between their own behavior and that of others. This course also develops students' understanding of both qualitative and quantitative approaches to research, which they critically reflect on the evidence as well as assist in the design, implementation, analysis and evaluation of their own investigations. The objectives of this course include: develop an understanding of the biological, cognitive and sociocultural factors affecting mental processes and behavior; apply an understanding of the biological, cognitive and sociocultural factors affecting mental processes and behavior to at least one applied area of study; understand diverse methods of inquiry; understand the importance of ethical practice in psychological research in general and observe ethical practice in their own inquiries; ensure that ethical practices are upheld in all psychological inquiry and discussion; develop an awareness of how psychological research can be applied to address real-world problems and promote positive change; provide students with a basis for further study, work and leisure through the use of an additional language; and foster curiosity, creativity and a lifelong enjoyment of language learning.

IB ENVIRONMENTAL SCIENCE AND SOCIETIES

Course Code IB600 Full Year

Grade 11, Grade 12 10 Total Credits (5 Each Year)

This two-year course combines various methodologies, techniques, and knowledge associated with the sciences, individuals, and societies. This course engages students in the challenges of 21st-century environmental issues. Students develop a scientific approach through explorations of environmental systems they'll also acquire the understandings and methods from individuals and societal subjects while studying sustainability issues within social, cultural, economic, political, and ethical contexts. Students produce a synthesis of understanding from the various topics studied. It also emphasizes the ability to perform research and investigations and participate in philosophical, ethical, and pragmatic discussions of the issues involved from the local to the global level. The objectives of this course include: develop understanding of their own environmental impact, in the broader context of the impact of humanity on the Earth and its biosphere; develop knowledge of diverse perspectives to address issues of sustainability; engage and evaluate the tensions around environmental issues using critical thinking; develop a systems approach that provides a holistic lens for the exploration of environmental issues; and be inspired to engage in environmental issues across local and global contexts.

IB MATHEMATICS: ANALYSIS AND APPROACHES

Course Code IB500 Full Year

Grade 11, Grade 12 10 Total Credits (5 Each Year)

This two-year course that develops an understanding of important mathematical concept in a comprehensible, coherent, and rigorous way achieved by a balanced approach. Students solve abstract problems as well as those set in a variety of meaningful and applicable contexts. The course has a strong emphasis on the ability to construct, communicate, and justify correct mathematical arguments and students should expect to develop insight into mathematical form and structure. The objectives of this course include: develop a curiosity and enjoyment of mathematics, and appreciate its elegance and power; develop an understanding of the concepts, principles and nature of mathematics; communicate mathematics clearly, concisely and confidently in a variety of contexts; develop logical and creative thinking, and patience and persistence in problem-solving to instill confidence in using mathematics; employ and refine their powers of abstraction and generalization; take action to apply and transfer skills to alternative situations, to other areas of knowledge and to future developments in their local and global communities; appreciate how developments in technology and mathematics influence each other; appreciate the moral, social and ethical questions arising from the work of mathematicians and the applications of mathematics; appreciate the universality of mathematics and its multicultural, international and historical perspectives; appreciate the contribution of mathematics to other disciplines, and as a particular "area of knowledge" in the TOK course; develop the ability to reflect critically upon their own work and the work of others; and independently and collaboratively extend their understanding of mathematics.

IB DANCE

Course Code IB800 Full Year

Grade 11, Grade 12 10 Total Credits (5 Each Year)

This course runs for two years and takes a holistic approach to dance, and embraces a variety of dance traditions and dance cultures—past, present and looking towards the future. Performance, creative and analytical skills are mutually developed and valued whether the students are writing papers or creating/performing dances. The curriculum provides students with a liberal arts orientation to dance. This orientation facilitates the development of students who may become choreographers, dance scholars, performers or those, more broadly, who seek life enrichment through dance. The objectives of this course include: understand dance as a set of practices with their own histories and theories, and to understand that these practices integrate physical, intellectual and emotional knowledge; experience dance as an individual and collective exploration of the expressive possibilities of bodily movement; understand and appreciate mastery in various dance styles, traditions and cultures familiar and unfamiliar; recognize and use dance to create dialogue among the various traditions and cultures in their school environment, their society and the world at large.

THEORY OF KNOWLEDGE

Course Code IB900 Full Year

Grade 11, Grade 12 10 Total Credits (5 Each Year)

This course runs for two years and is a requirement for Diploma Program candidates. This course examines how we know what we claim to know and achieves this by encouraging students to analyze knowledge claims and explore knowledge questions. sent to a different explanation. The Theory of Knowledge course has been designed to develop skills that will help students investigate the origin and reliability of the knowledge they have acquired. It explores how students, the individual or knower, utilize emotions, reason, language, and sense perception to come to know what they know. In this course, students will explore how they have learned what they know in the areas of the Natural Sciences, Human Sciences, History, Arts, Ethics, and Mathematics. Students will be asked to scrutinize their knowledge by comparing the ways of knowing and knowledge claims across disciplines, and by becoming aware of how personal and cultural views impact the knowing process for themselves and for others.