



Parsippany-Troy Hills Township Schools

Student Course Selection Bulletin 2018-2019 Grades 9-12

Revised - January 11, 2018

Parsippany High School
309 Baldwin Road
Parsippany, NJ 07054
(973) 263-7001

Parsippany Hills High School
20 Rita Drive
Morris Plains, NJ 07950
(973) 682-2815



Board Approved - December 14, 2017

**PARSIPPANY-TROY HILLS TOWNSHIP SCHOOLS
COURSE SELECTION BULLETIN – 2018-19**

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This Course Bulletin is designed to assist students in their selection of courses of study. Through our well-rounded curriculum, students master creative and expository writing, mathematical and analytical reasoning, presentation skills, world languages, scientific discovery and self-expression. Our technology-rich environment prepares Parsippany-Troy Hills students to learn and work in today's mobile, networked world.

A description of each course is included here. Selection of classes is based on recommendations of teachers, study skills, grades, standardized test scores, advice of parents and counselors, and your particular interests and plans for the future. The Counseling Department urges you to read this booklet before you schedule your courses. Questions regarding course selection may be addressed to any of the persons listed below.

Parsippany Hills High School

Michael DiSanto	Principal	682-2815 Ext. 2401
Tricia Morsillo	Coordinator/Counselor	682-2815 Ext. 2436
Joanne Barkauskas	Counselor – Grade 9	682-2815 Ext. 2434
Pamela Cotton	Counselor	682-2815 Ext. 2432
Suzanne Barrett	Counselor	682-2815 Ext. 2427
Carl Ordway	Counselor	682-2815 Ext. 2435
Rafael Delgado	Student Assistance Counselor	682-2815 Ext. 2414

Parsippany High School

Denis Mulroony	Principal	263-7001 Ext. 2301
Stacy Bush	Coordinator/Counselor	263-7001 Ext. 2305
Fred Douglas	Counselor – Grade 9	263-7001 Ext. 2332
Ellen Belarmino	Counselor	263-7001 Ext. 2331
Jennifer Hrobuchak	Counselor	263-7001 Ext. 2333
Aimee Letsch	Counselor	263-7001 Ext. 2334
Aimee Doyle	Student Assistance Counselor	263-7001 Ext. 2312

AFFIRMATIVE ACTION STATEMENT

The Board of Education declares its intention to offer each child in its schools equal educational opportunity regardless of race, color, creed, religion, sex, ancestry, national origin or disability. If a student has any questions or comments regarding course offerings as related to “equal opportunity,” he/she should consult with his/her school counselor. A procedure for submitting a grievance is outlined in the Student Handbook.

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THE SCHEDULING PROCESS

At the beginning of the scheduling process, students may choose to meet with their school counselors to discuss course selections for the following year. Subject teachers recommend the course(s) students should take the following year. Students review these course selections with their parents, and the parents electronically verify these requests. A mandatory meeting between the student and the school counselor will then take place. **Requests for schedule changes will be considered for the following reasons only: Completion of summer school, failure of a prerequisite course, or a specific scheduling error.** No new course may be taken for credit after the 10th day of each semester. Any exception to these procedures requires the approval of the building principal.

GRADUATION REQUIREMENTS

In order to graduate from the Parsippany-Troy Hills School District and to receive a state-endorsed diploma, students must:

- A. Successfully earn a minimum of 24 credits
- B. Comply with the attendance requirements.
- C. Successfully complete a program of studies in grades nine through twelve, which shall include, but not be limited to:

SUBJECT	GRADUATION REQUIREMENT
English	Four years of English/Language Arts 4 credits total
Social Studies	Three years of Social Studies/History 3 credits total
Science	Three years of Science 3 credits total
Mathematics	Three years of Mathematics 3 credits total
Health/Physical Education	One year of Health/Physical Education for each year in attendance - 4 credits total
World Language	One year of a World Language 1 credit
Visual and Performing Arts	One year of Visual and Performing Arts or two (2) semester classes - 1 credit total
Career Education and Life Skills <u>or</u> Vocational/Technical training (see pages 9, 10)	One year of Career Education and Life Skills or two (2) semester classes - 1 credit total
Personal Finance	.5 credits total

*Personal Finance can be taken online with approval.
(See Guidance Counselor for further information)*

D. Students must successfully pass the The Partnership for Assessment of Readiness for College and Careers (PARCC). Students in the class of 2020 are required to take PARCC assessments if they are in classes covered by PARCC content before they are eligible to utilize either the substitute assessments or the portfolio appeal. For the class of 2021 and thereafter, students who have not demonstrated proficiency on the ELA 10 and Algebra 1 assessments, and have taken all end-of-course PARCC assessments for which they are eligible, can demonstrate graduation assessment proficiency by meeting of the portfolio appeals process.

English Language Arts	Mathematics
PARCC ELA Grade 9 ≥ 750 (Level 4) <i>or</i>	PARCC Algebra I ≥ 750 (Level 4) <i>or</i>
PARCC ELA Grade 10 ≥ 750 (Level 4) <i>or</i>	PARCC Geometry ≥ 725 (Level 3) <i>or</i>
PARCC ELA Grade 11 ≥ 725 (Level 3) <i>or</i>	PARCC Algebra II ≥ 725 (Level 3) <i>or</i>
SAT Critical Reading (taken before 3/1/16) ≥ 400 <i>or</i>	SAT Math (taken before 3/1/16) ≥ 400 <i>or</i>
SAT Evidence-Based Reading and Writing Section (taken 3/1/16 or later) ≥ 450 <i>or</i>	SAT Math Section (taken 3/1/16 or later) ≥ 440 <i>or</i>
SAT Reading Test (taken 3/1/16 or later) ≥ 22 <i>or</i>	SAT Math Test (taken 3/1/16 or later) ≥ 22 <i>or</i>
ACT Reading or ACT PLAN Reading* ≥ 16 <i>or</i>	ACT or ACT PLAN Math* ≥ 16 <i>or</i>
Accuplacer Write Placer ≥ 6 <i>or</i>	Accuplacer Elementary Algebra ≥ 76 <i>or</i>
Accuplacer Write Placer ESL ≥ 4 <i>or</i>	PSAT10 Math or PSAT/NMSQT Math (taken before 10/1/15) ≥ 40 <i>or</i>
PSAT10 Reading or PSAT/NMSQT Reading (taken before 10/1/15) ≥ 40 <i>or</i>	PSAT10 Math or PSAT/NMSQT Math (taken 10/1/15 or later) ≥ 22 <i>or</i>
PSAT10 Reading or PSAT/NMSQT Reading (taken 10/1/15 or later) ≥ 22 <i>or</i>	ACT Aspire Math* ≥ 422 <i>or</i>
ACT Aspire Reading* > 422 <i>or</i>	ASVAB-AFQT Composite > 31 <i>or</i>
ASVAB-AFQT Composite > 31 <i>or</i>	Meet the Criteria of the NJDOE Portfolio Appeal
Meet the Criteria of the NJDOE Portfolio Appeal	

**Indicates test is no longer administered but can be used for the graduating year.*

1.

SCHEDULE CHANGES

Since a student's schedule is individually planned after serious consideration of abilities and interests, changes are discouraged and restricted. Changing or dropping subjects requires the approval of parents, supervisors, and the principals. **Requests for schedule changes will be considered for the following reasons only:**

- **Completion of summer school**
- **Failure of a prerequisite course**
- **Specific scheduling error.**

No new course may be taken for credit after the 10th day of each semester. Any exception to these procedures requires the approval of the building principal.

MASTER SCHEDULE CONFLICTS

Students who request seven or eight courses per day cannot be guaranteed a conflict free schedule. Additional sections will not be scheduled to resolve conflicts.

ELECTIVE SUBJECTS

Students choose elective subjects to complete their program after the required subjects have been selected. Electives enrich the student's background and offer experiences in areas of special talent or interest. Students should carefully consider the relationship of the electives to their abilities, interests, co-curricular activities and out of school duties. **Once an elective is selected and scheduled, it may not be changed except for the circumstances indicated above.**

EARLY GRADUATION

Students interested in graduating in fewer than four years should discuss the possibility with their counselor by January 1 of their sophomore year.

ADVANCED PLACEMENT

The Advanced Placement (AP) Program is a cooperative educational endeavor developed and approved by The College Board. Advanced Placement courses are some of the most academically demanding courses offered to students. Successful completion of the course may lead to college credit and enrollment is highly selective. Students are strongly encouraged to take the AP exams in May. Students are responsible for the examination fees for the AP Exam(s). If there is a financial hardship, please advise your school counselor.

HONORS COURSES

An honors sequence for students with advanced skills and talents is offered in the following program areas: English, World Languages, Mathematics, Science and Social Studies. There are also individual honors courses for several of the elective classes. Criteria for courses in these areas are established by each department. A student must complete an honors or AP course in order to receive a weighted grade.

INDEPENDENT STUDY PROGRAM

Each independent study program is developed individually with the principal of each high school and the sponsor who has knowledge and background in the specific area. A student's proposed program must be submitted to and approved by the high school principal, subject area supervisor, Superintendent, and the Board of Education. In all cases, independent study must be the seventh or eighth credits and may not be a currently offered course. Applications for independent study must be submitted to the Principal by April 14 for programs that begin in September, and by November 15 for spring independent study programs.

ALTERNATE MATHEMATICS/SCIENCE COURSE APPROVAL

Parsippany-Troy Hills Township Schools has an alternate course approval process for Mathematics and Science courses. Requests to participate should be made to the appropriate Supervisor by April 15, 2018

WORLD LANGUAGE - OPTION II

By special approval of the New Jersey Department of Education and the Board of Education, the World Language requirement may be met by students who take Gujarati at the B.A.P.S. School and Mandarin at the Morris Chinese Academy, and they must score a Novice-High Level on the nationally recognized OPI test. Students who successfully complete the OPI test will earn one year of World Language credit. This will appear in the student's final transcript, but will not impact their grade point average.

Additional Information relating to OPTION II as per the guidelines approved by the NJDOE:
<http://www.state.nj.us/education/aps/cccs/wl/regs/guidelines.htm>

1. Costs

All costs incurred by a student's enrollment in such a program, including costs of proficiency testing, will be absorbed by the student's parents, or legal guardian.

2. Timelines

January 1: Deadline for submission of written requests to the high school principal by a student and his/her parent seeking to be granted graduation credit for a language program not offered in the local public school district.

SENIOR YEAR OPTION COOPERATIVE EDUCATION

Cooperative Education is a cooperative venture in career training. The school provides students the opportunity to attain a job in the field of their choice. Students also receive training they need to develop the successful skills for the job. Working papers are required for on-the-job participation.

In order to be enrolled in this program, students must complete an application signed by their parents and approved by the Teacher-Coordinator. The courses will include a related class meeting one period per day plus fifteen hours of on-the-job training each week. Three credits will be given for the related course and on-the-job training combined. See page 32.

NOTE: If employment cannot be found for, or by the student within a reasonable period of time from the first day of the school year, it may be necessary to return the student to classes which meet within the normal school day. Employment must be related to the cooperative education program. Students are responsible for their own transportation.

SENIOR YEAR OPTION

Target: Teach Parsippany

Seniors who have shown an interest in the teaching profession may apply to participate in a mentoring program designed to give them a theoretical as well as practical introduction to the teaching profession. Applicants must be in good academic standing (No D's or F's on final grades in any given year). Selected students will participate in evening seminars that explore such topics as comparative education, current issues in education, the biology and psychology of learning, and instructional decision-making. In addition to attending evening seminars, students will be required to complete required readings and assignments, maintain a professional journal/portfolio, observe in a variety of classrooms, and participate in off-campus field trips. The key experience for students enrolled in this course will be working with a mentor teacher in our school district in an actual classroom during senior year. Participating seniors will receive one credit for successful completion of the program. If students are interested in this program, they should complete the application on the schools' website, and submit it electronically by February 9th. A personal interview will be conducted to determine successful candidates.

COLLEGE DUAL ENROLLMENT COURSES

Through a partnership with Fairleigh Dickinson University, several courses allow students to receive college credit for their successful high school work. Business Organization & Management, Honors College Preparatory Accounting, and Marketing, Advertising & Sales Promotions courses all qualify for this program. Students who opt to enroll and earn a final grade of "C" or better will receive three college credits from FDU per course. A maximum of 12 credits is permitted during the high school years using this program. More details can be obtained at www.fdu.edu/middle or from the Counseling department.

FOUR-YEAR PROGRAM PLANNING SHEET

Students should complete this plan carefully for all four years by selecting courses that most realistically fit into career plans. This program should be kept available for future course selection.

Graduation Requirements	Grade 9	Grade 10	Grade 11	Grade 12
English (4 years)				
Mathematics (3 years)				
Science (3 years)				
Social Studies (3 years)				
World Language (1 year)				
Physical Education and Health/Family Life and Safety (for each year in attendance)				
Visual and Performing Arts (1 year)				
Career Education and Life Skills (1 year)				
Personal Finance (1 semester)				
Total Credits				

Total Credits for Four Years

**COURSES MEETING NEW JERSEY STATE REQUIREMENTS FOR
CAREER EDUCATION/LIFE SKILLS (CE/LS)
VISUAL AND PERFORMING ARTS (VPA)**

Students must successfully complete one year of Career Education/Life Skills and one year of Visual/Performing Arts. The columns below indicate the requirement which is met with these specific courses. The following courses are meant as guidelines.

All students must satisfactorily complete a semester of Personal Finance, which may be taken online.

<u>CE/LS</u>	<u>VPA</u>	<u>DEPARTMENT</u>	<u>COURSE NAME</u>	<u>COURSE NUMBER</u>
X	X	ART	Ceramics 1	ART 700
X	X		Ceramics 2	ART 705
X	X		Drawing 1	ART 710
X	X		Drawing 2	ART 711
X	X		Painting	ART 715
X	X		AP Studio Art	ART 721
X	X		Honors Portfolio	ART 724
X	X		Advanced Ceramics	ART 730
X	X		Multi Art	ART 735
X	X		Graphic Design	ART 750
X	X		Animation	ART 751
X	X		Digital Photography	ART 755
X		BUSINESS	Personal Finance	BUS 455
X			Pathways to Business and Careers	BUS 460
X			AP Economics	BUS 535
X			Business Organization & Management	BUS 615
X			Honors College Prep Accounting	BUS 620
X			Accounting 1	BUS 624
X			Marketing Advertising & Sales Pro.	BUS 630
X			Virtual Enterprise	BUS 635
X		CVE	Cooperative Education	CVE 610
			Cooperative Education – On Job	CVE 615
X		ENG	Creative Writing	ENG 700
X			Public Speaking	ENG 715
X			Journalism	ENG 720
X		FCS	Intro. to Food Prep. and Nutrition	FCS 615
X			International Foods	FCS 620
X			Child Development & Parenting	FCS 630
X			Honors Human Development Seminar	FCS 640
X		MTH	AP Computer Science A	MTH 511
X			AP Computer Science Principles	MTH 512
X			Honors Data Structures & Advanced Programming	MTH 514
X			Intro to Computer Programming in C and Apps Development	MTH 517
X			Computer Science and Programming Concepts with Python	MTH 522
X			Robotics	MTH 525
X	X	MUS	AP Music Theory	MUS 700
X	X		Concert Band	MUS 705
X	X		Honors Concert Band	MUS 710

X	X		Wind Ensemble	MUS 715
X	X		Honors Wind Ensemble	MUS 720
X	X		Choir	MUS 722
X	X		Concert Choir	MUS 725
X	X		Honors Choir	MUS 727
X	X		Honors Concert Choir	MUS 730
X	X		Music Theory	MUS 740
X		PEH	Careers in Medicine	PEH 650
X		SCN	AP Physics C: Electricity, Magnetism and Mechanics	SCN 414
X			AP Environmental	SCN 334
X			AP Chemistry	SCN 324
X			AP Biology	SCN304
X			Astronomy	SCN 424
X			Biology 2	SCN 233
X			Environmental	SCN 213
X			Marine Biology	SCN 310
X			Honors Anatomy and Physiology	SCN 314
X			Forensic Science	SCN 320
X			Genetics	SCN 330
X			Organic Chemistry	SCN 335
X			Nutritional Science	SCN 370
X		SST	Institute for Political and Legal Education (IPLE)	SST 500
X			AP Government/Politics	SST 534
X			Civics & Government/Honors Civics & Government	SST 540/544
X		TEC	Woods Technology 1	TEC 600
X			Woods Technology 2	TEC 603
X			Television Production 1	TEC 605
			Television Production 2	TEC 606
X			Auto Fundamentals	TEC 610
X			Engineering CAD 1	TEC 630
X			Engineering CAD 2	TEC 631
X			Engineering CAD 2 Honors	TEC 633
X			Arch. CAD 1	TEC 634
X			Arch. CAD 2	TEC 635
X			Arch. CAD 2 Honors	TEC 637
X	X		Theatrical Stagecraft Semester 1	TEC 640
X	X		Theatrical Stagecraft Semester 2	TEC 642
X			Imagineering	TEC 650
X			Intro to Design Tech	TEC 660
X			Design Tech II	TEC 661
X			Auto Mechanics 1	TEC 653
X			Auto Mechanics 2	TEC 654
			Small Engines	TEC 663
X		TCH	Target: Teach Parsippany	TCH 400

It is important that students talk with their school counselors about their post high school plans, so that an appropriate four-year schedule can be designed. In general, highly competitive colleges encourage students to take several Honors or Advanced Placement courses each year. Most colleges require a minimum of 16-18 academic units (to be chosen from English, Math, Science, Social Studies and World Languages). Course requirements at the colleges being considered are available from the most recent college catalogues. School counselors will assist students in reviewing the materials.

Students pursuing a career in the Vocational/Industrial, Business Areas, Visual and Performing Arts, should select related courses as part of the requirement in Career Education/Life Skills and Visual/Performing Arts. Students should choose elective courses that relate to careers of interest. Teachers, as well as school counselors, will help with these decisions.

No matter what students' future plans, they are encouraged to take the most rigorous program possible. Pursuing a challenging course load will provide the best preparation for state-mandated graduation tests and also for future success in college, military service or in the world of work.

**APPLIED TECHNOLOGY: BUSINESS
COURSE SEQUENCE GUIDE**

GRADE 9	GRADE 10	GRADE 11-12
Pathways to Business & Careers (1 semester)	Pathways to Business & Careers (1 semester)	Business Organization and Management
	Marketing Advertising Sales	Marketing Advertising Sales
	Accounting 1 College Prep Accounting Honors	Cooperative Education (Grade 12 only)
		Accounting 1 College Prep Accounting Honors
		AP Economics
Personal Finance (1 semester)	Personal Finance (1 semester)	Personal Finance (1 semester)
		Virtual Enterprise (<i>New Course</i>)

Personal Finance may be taken online. Please speak with a counselor about this option.

**APPLIED TECHNOLOGY: FAMILY AND CONSUMER SCIENCES
COURSE SEQUENCE GUIDE**

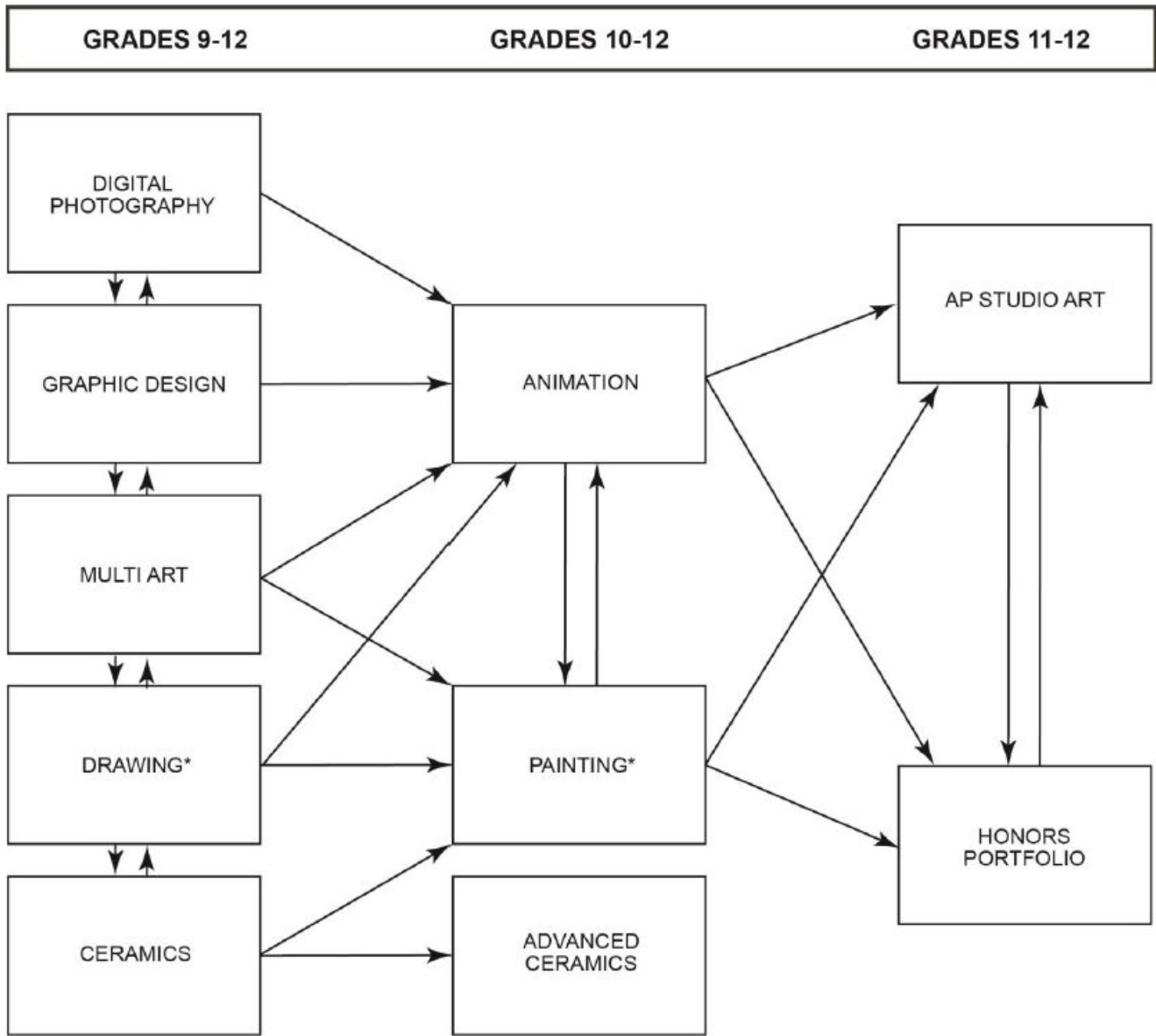
Grade 9 –12	Grade 10 – 12
Introduction to Food Preparation and Nutrition	International Foods
Child Development and Parenting	Honors Human Development Seminar

**APPLIED TECHNOLOGY: INDUSTRIAL ARTS & VOCATIONAL
COURSE SEQUENCE GUIDE**

GRADE 9	GRADE 10	GRADE 11-12
Woods Technology 1	Woods Technology 1	Woods Technology 1
Small Engines (New Course)	Woods Technology 2	Woods Technology 2
Theatrical Stagecraft (semester 1)	Small Engines (New Course)	Small Engines (New Course)
Theatrical Stagecraft (semester 2)	Theatrical Stagecraft (semester 1)	Theatrical Stagecraft (semester 1)
Imagineering	Theatrical Stagecraft (semester 2)	Theatrical Stagecraft (semester 2)
Engineering CAD 1 (semester)	Imagineering	Imagineering
Television Production 1	Architectural CAD 1	Architectural CAD 2
Auto Fundamentals	Engineering CAD 1/ (semester)	Architectural CAD 2 Honors
Intro to Design Tech (semester)	Engineering CAD 2	Engineering CAD 2
Design Tech II (semester)	Engineering CAD 2 Honors	Engineering CAD 2 Honors
	Auto Mechanics 1 (3 credits)	Auto Mechanics 1 (3 credits)
	Television Production 1	Auto Mechanics 2 (3 credits)
	Television Production 2	Careers in Medicine
	Auto Fundamentals	Television Production 1
	Intro to Design Tech (semester)	Television Production 2
	Design Tech II (semester)	Auto Fundamentals
		Intro to Design Tech (semester)
		Design Technology II (semester)

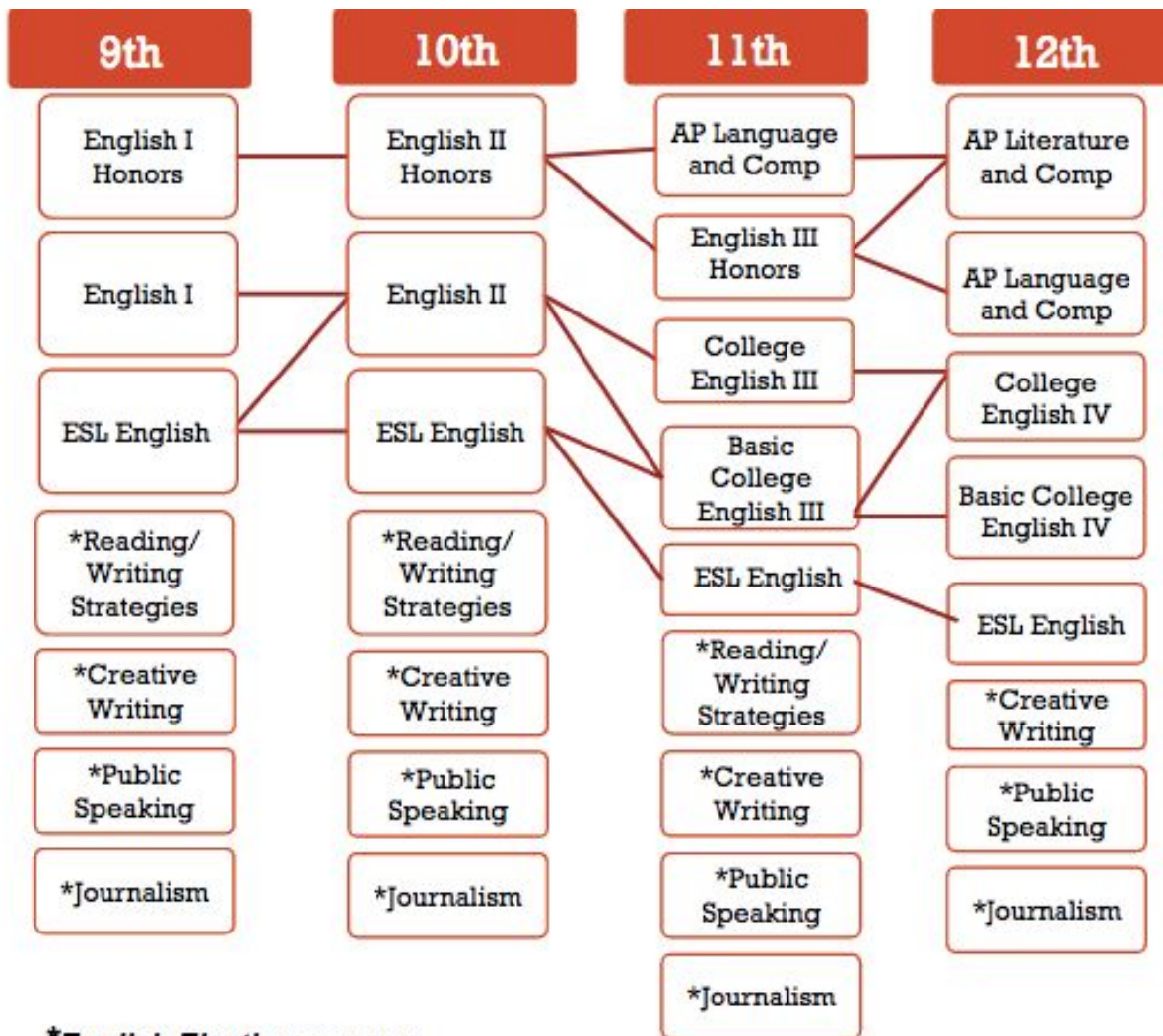
Suggested Art Course Path

Students who intend to pursue art at the college level are strongly advised to take an art course every year.



*suggested path for students intending to pursue art at the college level

**ENGLISH LANGUAGE ARTS
COURSE SEQUENCE GUIDE**



**MATHEMATICS
COURSE SEQUENCE GUIDE**

GRADE 9	GRADE 10	GRADE 11	GRADE 12
Honors Geometry	Honors Algebra 2	Honors Precalculus	Advanced Placement Calculus BC
Geometry	Algebra 2	Advanced Placement Statistics	Advanced Placement Statistics
Algebra 1	Geometry	Precalculus	Calculus
Strategies for Algebra I	Strategies for Geometry	Probability, Statistics & Discrete Mathematics	Probability, Statistics & Discrete Mathematics
ESL Math I ESL Math II	ESL Math I ESL Math II	Algebra 2	Precalculus
*Intro to Comp Prog in C & Apps Develop	Strategies for Algebra 2	Advanced Placement Statistics	Advanced Placement Statistics
*Robotics (<i>New Course</i>)	ESL Math I ESL Math II ESL Math III	Probability, Statistics & Discrete Math	Precalculus
* Computer Science and Programming Concepts with Python (<i>New Course</i>)	Applied Mathematics	College Algebra	Probability, Statistics & Discrete Math
*AP Computer Science Principles	College Algebra	Algebra III	Applied Mathematics
	Algebra III	Applied Math	College Algebra
	Applied Math	ESL Math I ESL Math II ESL Math III	Algebra III
	ESL Math I ESL Math II	*Intro to Comp Prog in C & Apps Develop	Applied Math
	*Intro to Comp Prog in C & Apps Develop	*Robotics (<i>New Course</i>)	ESL Math I ESL Math II ESL Math III
	*Robotics (<i>New Course</i>)	* Computer Science and Programming Concepts with Python (<i>New Course</i>)	*Intro to Comp Prog in C & Apps Develop
	* Computer Science and Programming Concepts with Python(<i>New Course</i>)	*AP Computer Science Principles	*Robotics (<i>New Course</i>)
	*AP Computer Science Principles	*AP Computer Science A	* Computer Science and Programming Concepts with Python (<i>New Course</i>)
	*AP Computer Science A	*Honors Data Structures and Advanced Programming	*AP Computer Science Principles
	*Honors Data Structures and Advanced Programming		*AP Computer Science A

*These elective courses fulfill the high school credit requirement for graduation; however, they do not fulfill the mathematics credit requirement for graduation.

**PHYSICAL EDUCATION/ DRIVER'S EDUCATION/ HEALTH
COURSE SEQUENCE GUIDE**

GRADE 9	GRADE 10	GRADE 11	GRADE 12
Physical Education (Three Marking Periods) Health (One Marking Period)	Physical Education (Three Marking Periods) Driver's Education (One Marking Period)	Physical Education (Three Marking Periods) Health (One Marking Period)	Physical Education (Three Marking Periods) Health (One Marking Period)
		<u>Full Year Elective:</u> Careers in Medicine	

SCIENCE COURSE SEQUENCE GUIDE

GRADE 9	GRADE 10	GRADE 11	GRADE 12
<p>Students must take one of the courses below.</p> <p>Honors Biology</p> <p style="padding-left: 40px;">Biology</p> <p>ESL Science 1</p> <p>ESL Science II</p> <p>ESL Science III</p>	<p>Students must take one of the courses below.</p> <p>Honors Chemistry</p> <p style="padding-left: 40px;">Chemistry</p> <p>Conceptual Chemistry</p> <p>ESL Science 1</p> <p>ESL Science II</p> <p>ESL Science III</p>	<p>Students must take one of the courses below.</p> <p style="padding-left: 40px;">Honors Physics</p> <p style="padding-left: 80px;">Physics</p> <p>ESL Science 1</p> <p>ESL Science II</p> <p>ESL Science III</p> <p>Students MAY double up with one of the below courses if they meet prerequisites:</p> <p style="text-align: center;"><u>Full Year Elective</u></p> <p style="padding-left: 20px;">Honors Anatomy and Physiology</p> <p style="padding-left: 40px;">AP Chemistry</p> <p style="padding-left: 20px;">Environmental Science</p> <p style="padding-left: 40px;">AP Environmental</p> <p style="padding-left: 60px;">AP Biology</p> <p style="padding-left: 60px;">Biology 2</p> <p style="padding-left: 40px;">Marine Biology</p> <p style="padding-left: 40px;">Forensic Science</p> <p style="text-align: center;"><u>Semester Elective</u></p> <p style="padding-left: 40px;">Astronomy</p> <p style="padding-left: 20px;">Organic Chemistry</p> <p style="padding-left: 40px;">Genetics</p> <p style="padding-left: 20px;">Nutritional Science</p>	<p>Courses available based on prerequisites</p> <p style="text-align: center;"><u>Full Year Elective</u></p> <p style="padding-left: 20px;">AP Chemistry</p> <p style="padding-left: 20px;">AP Biology</p> <p style="padding-left: 20px;">Honors Anatomy and Physiology</p> <p style="padding-left: 40px;">Biology 2</p> <p style="padding-left: 20px;">Environmental Science</p> <p style="padding-left: 20px;">AP Environmental Science</p> <p style="padding-left: 40px;">ESL Science 1</p> <p style="padding-left: 40px;">ESL Science II</p> <p style="padding-left: 40px;">ESL Science III</p> <p style="padding-left: 20px;">Marine Biology</p> <p style="padding-left: 20px;">Forensic Science</p> <p style="padding-left: 20px;">AP Physics C: Electricity, Magnetism and Mechanics</p> <p style="text-align: center;"><u>Semester Elective</u></p> <p style="padding-left: 40px;">Astronomy</p> <p style="padding-left: 20px;">Organic Chemistry</p> <p style="padding-left: 40px;">Genetics</p> <p style="padding-left: 20px;">Nutritional Science</p>

NOTES:

1. With the full implementation of NJSLs for Science (NGSS), the state requires that all students receive instruction in ALL standards. To meet this requirement, all 9th grade students will study Biology, all 10th grade students will study Chemistry, and all 11th graders will study Physics. Natural Science is integrated into Biology, Chemistry and Physics to meet all state requirements. A new state science assessment in 11th grade will reflect this requirement.
2. Students must be proficient in both Biology and Chemistry prior to enrolling in a Science elective course. In grade 11, students may double up in a Physics and an elective, or wait until grade 12 to enroll in an elective course.
3. All AP Sciences have 2 scheduled lab periods/week, linked with lunch or study hall.

**SOCIAL STUDIES
COURSE SEQUENCE GUIDE**

GRADE 9	GRADE 10	GRADE 11	GRADE 12
World History Honors	Pre-Advanced Placement United States History 1	Advanced Placement United States History 2	<u>Full Year Electives:</u> Advanced Placement European History
World History	U.S. History 1	American Studies: U.S. History 2	Institute for Political & Legal Education (Double Period)
ESL World History	ESL United States History 1	ESL United States History 2	Military History
	<u>Semester Elective:</u> History of Sports and Society	<u>Full Year Electives:</u> Military History Civics & Government	Advanced Placement Government & Politics
		<u>Semester Electives:</u> History of Sports and Society	Civics & Government
		Philosophy and Logic	<u>Semester Electives:</u> History of Sports and Society
		Human Behavior 1	Human Behavior 1
		Human Behavior 2	Human Behavior 2
			Philosophy and Logic

NOTES: The electives listed help fulfill the high school credit requirement for graduation; however, they do not fulfill the Social Studies credit requirement for graduation. In order to fulfill the Social Studies credit requirement, students must take one year of World History and two years of United States History – US I and US II.

**WORLD LANGUAGES
COURSE SEQUENCE GUIDE**

FRENCH, ITALIAN, SPANISH			
GRADE 9	GRADE 10	GRADE 11	GRADE 12
*Level 1	*Level 1	*Level 1	*Level 1
Level 2	Level 2	Level 2	Level 2
Level 2 Honors	Level 2 Honors	Level 2 Honors	Level 2 Honors
	Level 3	Level 3	Level 3
	Level 3 Honors	Level 3 Honors	Level 3 Honors
		Level 4	Level 4
		Level 4 Honors	Level 4 Honors
		Level 5 (Spanish only)	Level 5 (Spanish only)
		Advanced Placement	Advanced Placement

*A student may begin the study of a world language in any year of high school.

COURSE OFFERINGS AND DESCRIPTIONS

APPLIED TECHNOLOGY: BUSINESS EDUCATION

BUS 455 *Personal Finance*

Grades 9 – 12

This **one-semester course** promotes personal responsibility for financial planning, saving, investing, and charitable giving. Financially literate 21st century citizens will face increasing choices due to the global economy. Students will learn to analyze personal financial decisions, summarize major consumer protection laws, plan for spending and saving, develop a system for keeping and using financial records, and apply consumer skills to purchasing decisions. They will learn how to maintain creditworthiness, borrow at favorable terms, and manage debt. In addition, students will be able to explain the purpose of insurance protection and the implementation of a diversified investment strategy. Technology integration includes use of a simulation which makes the content authentic. **This course satisfies the State Financial Literacy Requirement - Students can elect to take this course online. See Guidance Counselor.**

BUS 460 *Pathways to Business and Careers*

Grades 9 – 12

This **one-semester course** invites students to explore planning for careers and provides an introduction to the world of business and entrepreneurship. The course addresses economics and the way elements interact in our economic system. Students will explore career goals and consider a plan and timetable, including educational and training requirements and possible college costs. Students will identify personal interests and aptitudes related to careers, including analyzing how economic, social-cultural, and political conditions can affect income and career potential. Students will research how to find and apply for college and jobs, create a personal resume, develop interviewing techniques and practice the application process.

BUS 535 *Advanced Placement Economics (AP)*

Grades 11-12

The Advanced Placement Economics program is designed for students who possess special skills and interests in the field of economics and who plan to seek advanced standing upon admission to college. The program offers two distinct sections: microeconomics and macroeconomics. Each section is intended for qualified students who wish to complete a secondary school equivalent to a one-semester college introductory course in micro or macroeconomics. Students will be prepared to take both AP Economic Examinations: Microeconomics and Macroeconomics. **WEIGHTED COURSE**

BUS 615 *Business Organization & Management*

Grades 10 - 12

This course is a must for all students who plan on a business major in college. Students learn about various economic systems, business ownership and management, the stock market, advertising and marketing, international business trade, credit and insurance. Students will analyze case studies and work with a business simulation. **This course is eligible for college credit through Fairleigh Dickinson University.**

BUS 620 *College Preparatory Accounting Honors*

Grades 10-12

Honors CPA is an accelerated accounting course intended for students who plan to continue their education in the areas of accounting, finance, or business administration, or marketing. A college level text and Excel are used in the Business Education Computer Lab. Students will be exposed to real-world accounting scenarios to provide experience authentic to the business world. **This course is eligible for college credit through Fairleigh Dickinson University. WEIGHTED COURSE**

BUS 624 Accounting I

Grades 10 -12

This course will help students learn the basic principles and concepts of accounting and be able to balance a checkbook, set up records for a business and gain the necessary background for advanced study of accounting. Automated accounting activities and experience with Excel will be facilitated in the Business Education Computer Lab.

BUS 630 Marketing, Advertising & Sales Promotion

Grades 10 - 12

This course is important for students who are considering further education in marketing, advertising or business management. With a basic understanding of marketing and sales promotion, students will learn what motivates consumer buying decisions, analyze existing campaigns and create their own. Special emphasis is placed on product branding, image, target marketing and how promotional activities affect consumer buying habits. Students learn in-depth promotional strategies with hands-on activities that include formulating storyboards, print layouts, radio and television commercials. Students will use Mac and other computer applications to create commercials and design promotions, constructing real-world examples to add to their portfolios. **This course is eligible for college credit through Fairleigh Dickinson University.**

BUS 635 Virtual Enterprise

Prerequisites: One full year of a Business Course (New Course)

Grades 11-12

Virtual Enterprise is a full year capstone course designed to provide students with the skills and knowledge required to succeed in the global business world. Students are exposed to the various departments found within corporate culture by participating in a virtual business, the Virtual Enterprises International (VEI) simulation, with more than 3000 student run VE Firms worldwide. With guidance from their teacher and real-world business partners, the students first determine the nature of their business, its products and services, its structure and management, and then move on to engage in the daily operations of running a business. Emphasis is placed on using current business software, communications, and the Internet for business transactions. As a culmination of this year-long course, students will analyze, interpret, and present an annual business report at the VE Trade Show in NYC. VEI students must complete an application to apply to a specific department where they will focus and specialize. Areas of specialty include: Finance, Human Resources, Information Technology, Marketing/Sales, and Purchasing.

This course is eligible for college credit through Fairleigh Dickinson University.

APPLIED TECHNOLOGY: FAMILY AND CONSUMER SCIENCES

FCS 615 *Introduction to Food Preparation and Nutrition*

Grades 9-12

This course will introduce the student to basic food preparation skills, nutrition, and food management. Food laboratory activities will reinforce math and science skills, develop critical thinking and problem solving skills, and develop cooperative learning, self-direction and responsibility. The course emphasizes individual health and well being, essential life skills, and career readiness. Please note-This course will alter the use of certain ingredients to accommodate dietary allergies, intolerances and religious food restrictions.

FCS 620 *International Foods*

Grades 10-12

Students will prepare more international foods using recipes that will expand their expertise in the foods laboratory. Through the study of regional American and world cuisine, students will explore the areas of: food preparation for fitness and nutrition, food science applications, and careers in food. Food laboratory experiences will enhance food preparation and cooperative teamwork skills. This course is designed for students who have a background in food preparation; students are strongly encouraged to take *Introduction to Food Preparation* first. This course will alter the use of certain ingredients to accommodate dietary allergies, intolerances and religious food restrictions

FCS 630 *Child Development and Parenting*

Grades 9-12

This course is designed for students who plan to work with children in their career, and for those who will become parents in the future. Students will study the early phases of childhood from the prenatal stage through age five, explore the physical, social, emotional, and intellectual development of children, analyze developmentally appropriate behaviors and activities, and examine parenting skills.

FCS 640 *Honors Human Development Seminar*

Grades 10-12

Students will examine and apply the current research in human growth and development from birth to adolescence. They will have the opportunity to observe and teach preschoolers. This course is of primary interest to the student who hopes to enter a profession serving children, but would also be of interest to the student expanding his/her knowledge of human development. Summer reading required.

WEIGHTED COURSE

APPLIED TECHNOLOGY: INDUSTRIAL ARTS

Applied Technology courses provide students with understanding and knowledge about all aspects of industry and technology, including learning experiences such as experimenting, designing, constructing, evaluating, and using tools, machines, materials, and processes. These courses assist individuals in making informed meaningful occupational choices and prepare them for entry into advanced trade and industrial or technical education programs.

TEC 600 Woods Technology 1

Grades 9 - 12

Woods Technology 1 provides an exploratory experience utilizing project planning, design development, construction and finishing of individual wood projects. Practical solutions in the form of woodworking projects will also be developed by the students in response to problems given in class relevant to fine woodworking skills. Students will also complete an activity exploring woodworking careers, as well as learn about mass-production.

TEC 603 Woods Technology 2

Prerequisites: *Woods Technology 1*

Grades 10 - 12

Woods Technology 2 is a hands-on course designed for students who wish to learn advanced woodworking techniques. We emphasize the development of jigs and fixtures to aid tool usage as well as intricate wood techniques, assembly and finishing methods are emphasized. Further the students will utilize these techniques to produce fine furniture as solutions to the problems given to them. These projects relate primarily to the generation of historical woodworking styles (e.g. Colonial American). Projects are designed and constructed with quality, attention to detail and pride in craftsmanship.

TEC 605 Television Production I

Grades 9-12

Television 1 is a project-based course designed to teach the techniques and planning behind television production. Students will learn the practical elements of multimedia, the research necessary for successful interviews, the development of content for television and web broadcast, as well as the history of television genres. Students will assume all duties as they use portable studio and digital video equipment and Final Cut software to practice visual storytelling, evaluate the impact of lighting, voice and sound, and edit and finalize content. This course will prepare students for further education in television and provide skills useful in small business and community organizations.

TEC 606 Television Production II

Grades 10-12

Television Production II is a full-year performance based course for students who have taken *Television Production I*. It will emphasize in—depth news, building on the skills developed in *Television Production 1*: lighting, sound, visuals, and editing. Students will consider the audience, research topics, develop programming with depth, strengthen interviewing techniques, and produce authentic programs. They will also develop their skills in the production of short films. *Television Production II* will prepare students for a further education or a career in television. Teamwork, goal-setting, evaluative research and careful planning are part of *Television Production II* and reflect 21st Century skills.

TEC 630 Engineering CAD 1

Grades 9–12

This one semester course is designed for students interested in pursuing a career in engineering, architecture, design, manufacturing and construction trades. As a beginning level course, students are taught to visualize in two and three dimensions and to produce drawings to communicate their ideas. Drawings produced in this class are developed on the computer using CAD software. Students learn to draw to industry standards by producing drawings of mechanical parts. This course will continue a student's development towards becoming a technological thinker and innovator through practical applications of math, science and technology (STEM). Students will also explore careers related to this area.

TEC 634 Architectural CAD 1

Grades 10-12

Essential for all students interested in pursuing careers in architecture, interior design, engineering, landscaping and residential construction. Students will explore architecture through residential planning and design, and will learn the intricacies of the industry standard Computer-aided Design (CAD) program used for the creation, modification, analysis and optimization of a design. In this course students will produce a set of house plans and associated details on the computer using CAD software.

TEC 635 Architectural CAD 2**TEC 637 Architectural CAD 2 Honors**

Prerequisites: *Architectural CAD 1*

Grades 10-12

In this second year of Architectural CAD, students will design a residential structure, starting with sketches and rendered drawings. From these, students will design and produce a full set of house plans using CAD software. Students will follow their plans, to construct a scale model of their design. The course will be offered to all students who have successfully completed Engineering CAD I.

HONORS CREDIT AVAILABLE students can voluntarily “contract” to an Honors level (for a weighted grade) which would involve higher emphasis on research, development, presentation and mathematical applications more rigorous assessment and greater expectations. Students are encouraged to enter architectural design competitions such as TSA Home Renovation.

TEC 640 Theatrical Stagecraft Semester 1**TEC 642 Theatrical Stagecraft Semester 2**

Grades 9 - 12

This semester course will acquaint students with the skills required to present a major production. Students who have an active interest in theater design will experience a variety of design construction techniques. They will stage musicals, format variety shows, and set up for concerts and social events that occur in the building. Students can take this course either in the Semester 1, Semester 2 or can sign up for both semesters. Two teachers, one from the Fine Arts department and one from the Industrial Arts department will co-teach this course when available.

TEC 650 Imagineering

Grades 9 - 12

Imagineering is a full year course designed for the students to transform the world around them in a positive way. This course offers a unique opportunity for students of differing ability levels to develop and refine skills from media, business, art, and science to create a footprint in the local community and/or the global landscape via inventions and experiences. Imagineering employs the concept of a Genius Hour and puts it to work every day. The Personalized learning environment aims to make students masters of a content area of their choice

TEC 653 Automobile Mechanics 1

Grades 10 - 12

(3 credit course)

Theory and practical experience in the repair and maintenance of engines and engine systems, drive trains, tires - tire repair and balancing, and other automobile components. (Not approved for NATEF certification).

TEC 654 Automobile Mechanics 2

Prerequisites - Automobile Mechanics 1

Grades 11 – 12

(3 credit course)

The second year of Auto Mechanics offers theory and practical experience in all of the areas covered in the first year but expanded to include: front end alignment, brake systems, air conditioning, and front wheel drive repair. (Not approved for NATEF certification)

TEC 660 *Intro to Design Tech*

Grades 9 – 12

This one semester course students will actively participate in this lab-based course to solve problems in Civil, Mechanical, and Aeronautical Engineering while using the design loop. This course will prepare the students to become a technological thinker and innovator through practical applications of math, science and technology (STEM). Students will be involved in both the designing and the hands-on building of solutions of technological problems using the engineering design process.

TEC 661 *Design Tech II*

Prerequisites: Intro to Design Tech

Grades 9-12

This one semester course is intended for students interested in honing their design skills in STEM related fields. In this course students continue to develop expertise in the design loop to solve higher level problems in Civil, Mechanical, and Aeronautical Engineering. The solutions to the problems at this level will be more complex and demanding in their understanding of math and science, and their model building skills. Students in this class will be encouraged to enter State and National design competitions, such as Technology Student Association.

TEC 663 *Small Engines (New Course)*

Grades 9-12

This course allows students to explore, repair, and rebuild small two- and four-cycle engines. Students in the Small Engine classroom will learn the foundational components of internal combustion engines while also gaining the practical skills necessary to work with common household items like lawn mowers, trimmers, propane torches, and snow blowers.

TEC 610 *Automotive Fundamentals*

Grades 9-12

This course teaches basic automotive theory and repair. Students will learn to protect themselves when buying that first used car. Skill levels developed in auto service will help save money, and will help to maintain one's investment in a car by keeping it safe, dependable condition. This course guides students into being better consumers and can also build toward a career. Students will explore careers in many automotive fields.

ART

The art department's primary goal is to prepare students to be visual thinkers and creative problem solvers in their future chosen fields. Art classes provide multisensory learning experience for students interested in art as a career or creative outlet. These courses are designed to foster the student's personal growth through the development of refined communication skills, emotional expression and the ability to see the world in a different way.

ART 700 Ceramics 1

Grades 9 -12

This one semester course is designed for students who have an interest in working with clay. Students will make functional bowls, vases, and boxes as well as creative sculptural pieces, using a variety of techniques. Students will create works of art in clay using hand building methods including pinch, coil and slab. Students will add color and surface decoration using glaze, underglaze and various texturing techniques. This course is for beginner to advanced students.

ART 705 Ceramics 2

Grades 9 - 12 Prerequisite Ceramics 1

This one semester course is a continuation of Ceramics I. Students will develop advanced handbuilding skills in sculpture, relief and functional clay modeling. Students will have the opportunity to create beautiful and professional looking vases, mugs, bowls, and perhaps even a teapot! Students will learn basic and some advanced techniques of throwing and trimming pots on the pottery wheel. Learn how to enhance clay with complex single and multiple layer glaze techniques. This is the perfect course for students who enjoy the challenge of working with their hands.

ART 710 Drawing 1

Grades 9 - 12

This one semester course explores all aspects of drawing and illustration. Students will work in a variety of media including pencil, marker, pastel, scratchboard, pen and ink and more. Drawing from life will be emphasized in order to strengthen skills as students experiment with concepts such as comic illustration, fantasy art, tattoo design and street art. This is an important course for anyone planning to continue with an exploration in the fine arts. This is a great class to become a more skilled artist or to just learn how to draw.

ART 711 Drawing 2

Grades 9-12 Prerequisite Drawing 1

This course is a continuation of Drawing 1. Students will further enhance their sketching and illustrations skills with more complex projects. Students will learn to draw realistic portraits, figures, and still life. They will also learn how to show one or two point perspective, create a graphic novel and more. This is an exciting course that encourages further exploration and development of a personal style.

ART 715 Painting

Grades 10-12 Prerequisite Multi Art or one semester of Drawing

Students will spend the entire year exploring different kinds of painting using watercolor, acrylic, oil, pastel, encaustic, impasto, image transfers and more. Students will learn traditional techniques to create landscapes, portraits, still life and abstractions. In addition, students will experiment with exciting, modern techniques of working with wet media. Students will learn about different artists and styles during field trips to local and New York City art museums and will create dynamic pieces for their college portfolio.

ART 721 AP Studio Art

Grades 11 - 12, Prerequisite two previous high school art courses

AP Studio Art is designed for highly motivated students who are seriously interested in the study of art. This course guides students through the development of an AP Studio Art Portfolio. Students will develop technical skills and familiarize themselves with the functions of the visual elements. They will also be encouraged to become independent thinkers who will contribute inventively and critically to their culture through the making of art. There will be an emphasis on art making as an ongoing process that involves the student in informed and critical decision making. Students will be expected to work outside of the classroom and beyond scheduled periods in order to be prepared for the AP Studio Art exam in May.

ART 724 Honors Art Portfolio

Grades 11 - 12, Prerequisite two previous high school art courses.

This is an intensive course that requires students to be highly focused on their work. This class will challenge junior and senior advanced art students with complex projects in art that can be solved in a variety of ways. Students will draw, paint, create sculpture, mix media and experiment with non-traditional materials. All students will develop a strong body of work and be required to participate in several public shows and juried competitions throughout the school year. Regular group and individual critiques will enable students to learn how to analyze their own work and their peers' work. Ongoing critical analysis will enable the student to be able to assess strengths and weaknesses in his/her own work. There will be an emphasis on the investigation of art in our world through class discussion, independent artist research, and field trips to New York City art galleries and museums. Prerequisite two previous high school art courses.

ART 735 Multi-Art

Grades 9 – 12

This is an introductory art course for all grade levels that explores a variety of art making processes and media. Students will draw, paint, sculpt, construct, collage and experiment with mixed media. This class provides great opportunity to sample a variety of art making techniques and materials. Students will be given the opportunity to visit local or New York City art museums through field trips during the year. This course is great for students who like art and enjoy trying new things, and it could be a great way to begin a high school art adventure.

ART 750 Graphic Design

Grades 9 -12

Graphic Design is a full year course designed to introduce art students to the computer as a medium for creating visual media. Students will work with a variety of digital equipment including scanners, digital cameras, large format printers and tablets. Students will develop a working proficiency in the language of advertising and design. This course has been designed to address visual problem solving through contemporary graphic design for the twenty-first century and its relationship to traditional graphic design methodology and history via hands-on exploration of visual ideas and solutions such as magazine covers, movie posters, package design and e-cards. The class will visit the Cooper Hewitt Design Museum in New York City to experience the work of professional designers. This course will prepare students to enter a college level Graphic Design class with a strong foundation in design. Real world, visual problem solving will be an important part of the Graphic Design curriculum. Industry standard hardware and software and its inherent peripherals will be used in the final production of all projects.

ART 751 Animation

Prerequisite: One previous high school art course

Grades 10-12

Ever dream of working for Pixar or Dreamworks animation studios? Or do you just want make exciting, motion based projects? Learn how to develop and draw your own characters, background and environments. This class will watch and analyze classic and modern animated movies for inspiration. Students will make flipbooks, stop motion and claymation animations and use other animation tools. Students will develop and build upon 2D and 3D techniques like character motion, body language, and character rigging as they combine artistic skills with technology to make creations come to life. There will be an emphasis on character development and storytelling. Students will learn the fundamentals of powerful software programs like Adobe Flash and Carrara Pro. This class is a great introduction to many forms of motion graphics.

ART 755 Digital Photography

Grades 9 -12

Learn to use a sophisticated digital camera and all of its manual settings. Photograph people, landscapes, still life and action scenes. Test out non-conventional techniques of lighting and photographing. Learn to use Adobe Photoshop to alter or enhance photographs. Create a portfolio of final work.

ART 730 Advanced Ceramics

Grades 10-12, Prerequisite Ceramics 1 and 2

Students who wish to explore more advanced techniques in the field of ceramics will have the opportunity to explore complex construction and decoration techniques. Slip casting, sprig mold and press mold making will allow the students to construct and embellish in multiples. Techniques combining hand building and wheel throwing will allow students to create complex forms and sculptures. Students will create their own specialized mark making tools to create custom textures and surfaces. Students will study the history of ceramics and its cultural influences in order to develop a style influenced by past artists. Students will select a ceramic artist, research their work and create a paper and presentation for fellow class members. Students will explore advanced glazing techniques to enhance the surfaces of their pieces. Coloring and laminating clay to form unique vessels will also be studied. Students will explore creating pieces in a set such as tea bowls and teapot or a dinner place setting. Students will create a project that is student directed based on the advanced techniques learned during the year.

COOPERATIVE EDUCATION

Cooperative Education provides students with job-oriented training and practical work experience in a work environment prior to permanent employment. A cooperative work-study program is designed to bridge the gap between school and the world of work. A cooperative work-study program introduces students in a practical way to career possibilities in Business, Marketing and Management office occupations.

At the completion of this program, students will have developed career goals, occupational competency, personal initiative, responsibility and confidence. Students will be able to work with others, demonstrating acceptable work behaviors. Students will learn the role that work plays in the overall operations of the employing organization.

The Cooperative program combines a required minimum of 540 hours of paid on-the-job, supervised work experience, with a related theory class, which meets daily in school. Cooperative Education meets the following Scans Competencies: I A-D, II A-F, III A-C, IV A, V A-C.

Assistance, if needed, will be provided by the Teacher Coordinator to any student seeking employment for the program. The workstation must be evaluated and approved by the Teacher-Coordinator. Transportation must be provided by the student.

CVE 610-615 - Cooperative Education (C.E.)

Grade 12 - Must be age 17 by September 1 and legally eligible to work

Co-op Education includes: A basic understanding of our economic system and the role the marketing of goods and services plays in our society. Career development is the central theme of this course with emphasis on self-evaluation, selection of career objectives, job seeking techniques, responsibilities of employees and employers, and human relations skills. This course also reinforces concepts in personal finance, consumer protection, and management of personal spending, saving and investing. All students must be employed at a job in the distribution of goods and services for fifteen (15) hours per week.

ENGLISH LANGUAGE ARTS

NINTH GRADE ENGLISH (REQUIRED)

ENG101, 201, 301, 401 *Concepts of HS English*

IEP Team Recommendation

Students strengthen skills with a variety of reading materials designed to enhance their experiences within the community through reading for meaning in community contexts and practical applications, reading for pleasure, and reading to learn. Fiction, non-fiction, and purposed reading (research skills) are emphasized. Written expression is taught to develop communication skills, advocacy/self-advocacy, and self-expression. Credit for these courses may be awarded for Structured Learning Experience (SLE)/work experience, accomplished in a school or community environment that draws upon and enhances skills taught in this course. *This course may not be accepted by NCAA

ENG 113 *ESL English*

Grades 9-12

ESL Teacher Recommendation

A course designed for students learning to speak and write English as a second language. Particular emphasis is placed on those skills needed to function efficiently in school and the community.

ENG 114 *Honors English 1*

Teacher Recommendation preferred

A course consisting of intensive instruction in the elements of expository writing and the development of critical reading skills. Required and supplemental readings throughout the year form the basis of an introduction to literary genres. Research activities lead to a formal research paper. Summer reading is required. **WEIGHTED COURSE**

ENG 116 *English 1*

IEP Team Recommendation

This Resource class is designed to help students achieve general education curriculum proficiencies in a small group setting. The program is an introduction to the study of literary genres. There is a concentration on expository writing and the development of critical reading skills. Instructional activities are modified according to the student's IEP. Summer reading is required.

ENG 117 *English 1*

Designed to be a rigorous academic program that is an introduction to the study of literary genres. There is a concentration on expository writing and the development of critical reading skills. Summer reading is required.

TENTH GRADE ENGLISH (REQUIRED)

ENG 214 Honors English 2

Teacher Recommendation

This course provides a challenging academic study of American literature with a focus on refining expository writing skills. Required summer reading, in addition to required independent reading throughout the year, supplements the literature study. A series of research projects culminate in a formal; research paper on a selected topic related to American literature. **WEIGHTED COURSE**

ENG 216 English 2

IEP Team Recommendation

This Resource class is designed to help students achieve general education curriculum proficiencies in a small group setting. Students sharpen skills in expository writing, critical analysis and library research while studying American literature. Instructional activities are modified according to the student's IEP. Summer reading is required.

ENG 217 English 2

Successful completion of English 1

Students will continue to sharpen skills in advanced expository writing, critical analysis and library research while studying American literature. A formal research paper and summer reading are required components of the course.

ELEVENTH GRADE ENGLISH (REQUIRED)

Course offerings in English 3 provide the student with the opportunity to select courses which will best serve his/her needs and interests. To meet the English 3 requirements, each student must select **ONE** course from the listing of English III courses.

ENG 323 AP English Language and Composition

Grade 11-12

A course that stresses college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytical and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. independence of thought and intensive development of critical skills. The course of study prepares students for the AP Language and Composition Exam. Summer reading required. **WEIGHTED COURSE**

ENG 316 Basic College English 3

IEP Team Recommendation

This Resource class is designed to help students achieve general education curriculum proficiencies in small group setting. This is the first of a two-year sequence that will emphasize the organization, patterns, conventions and mechanics of expository writing. Developmental reading skills are reinforced through selected literature and a required research paper. Summer Reading may be required.

ENG 314 Honors English 3

Teacher Recommendation preferred

A course devoted to the intensive study of literature and rhetoric with particular emphasis placed upon literary research. Summer reading required.

WEIGHTED COURSE

ENG 343 College English 3

This course provides a challenging academic study of British literature with a focus on mastering a repertoire of strategies for oral and written communication skills. Required summer reading, in addition to required independent reading throughout the year, supplements the literature study. A series of research projects culminate in a formal research paper on a selected topic related to British literature. Summer Reading is required.

ENG 353 Basic College English 3

This is the first of a two-year sequence that will emphasize the organization, patterns, conventions and mechanics of expository writing. Developmental reading skills are reinforced through selected literature and a required research paper. Summer Reading is required.

TWELFTH GRADE ENGLISH (REQUIRED)

Course offerings in English 4 provide the student with the opportunity to select courses which will best serve his/her needs and interests. To meet the English 4 requirements, each student must select **ONE** course from the listing of English 4 courses.

ENG 414 Advanced Placement English Literature and Composition

Teacher recommendation preferred

A course that stresses independence of thought and intensive development of critical skills. Emphasis is placed upon composition, research and literary skills as they are related to the arts and humanities. The course of study prepares students for the Language and Literature components of the AP Literature and Composition Exam. Summer reading required. **WEIGHTED COURSE**

ENG 443 College English 4

This course is designed to be a rigorous and challenging study of world literature. Required summer reading, in addition to required independent reading throughout the year, supplements the literature study. The course will stress the independence of thought and intensive development of critical reading skills. A series of projects culminate in a formal research paper on a selected topic related to world literature and expository writing. Summer Reading is required.

ENG 416 Basic College English 4

IEP Team Recommendation

This Resource class is designed to help students achieve general education curriculum proficiencies in a small group setting. This is the second of a two-year sequence that will emphasize the organization, patterns, conventions and mechanics of expository writing. Developmental reading skills are reinforced through selected literature and a required research paper. Summer Reading may be required.

ENG 443 College English 4

This course is designed to be a rigorous and challenging study of world literature. Required summer reading, in addition to required independent reading throughout the year, supplements the literature study. The course will stress the independence of thought and intensive development of critical reading skills. A series of projects culminate in a formal research paper on a selected topic related to world literature and expository writing. Summer Reading is required.

ENG 453 Basic College English 4

This is the second of a two-year sequence that will emphasize the organization, patterns, conventions and mechanics of expository writing. Developmental reading skills are reinforced through selected literature and a required research paper. Summer Reading is required.

ENGLISH ELECTIVES

ENG 102 *Strategies for Reading and Writing Grade 9*

Recommendation by 8th grade teacher of English with approval of English supervisor

These courses are designed to support students with Language Arts skills in vocabulary, reading comprehension, and academic writing. This course is taken in addition to the required English program. Individualized plans are developed for students to ensure improvement in specific skill areas.

ENG 202 *Strategies for Reading and Writing Grade 10*

ENG 302 *Strategies for Reading and Writing Grade 11*

These courses are designed to support students with Language Arts skills in vocabulary, reading comprehension, and academic writing. This course is taken in addition to the required English program. Individualized plans are developed for students to ensure improvement in specific skill areas.

ENG 700 *Creative Writing*

Grades 9-12

This course develops the craft of writing. The genres analyzed and developed in a workshop atmosphere are: poetry, short stories, plays, and children's literature. Students create a project for these genre during each marking period. Students maintain a journal and confer with the teacher regularly about individual writing development.

ENG 715 *Public Speaking*

Grades 9-12

This is a semester introductory course designed to help the student become a more effective oral communicator. This course involves research, reading, writing, and speaking elements, as well as studying purpose and audience. Students will study everything from interviewing to giving formal presentations.

ENG 720 *Journalism (New Course)*

Grades 9-12

This is a semester course focusing on the skills associated with creative nonfiction. Students will explore and create within the various journalistic styles including both not limited to investigation, interview, reposts, op-ed, column, and even political cartooning. These students will also have the opportunity to have their works included in the high school newspaper.

ENGLISH AS A SECOND LANGUAGE

ESL 111-115 *English as a Second Language*

Standardized ESL test score, Teacher & Counselor approval

A course designed to develop English language proficiency. Three levels of instruction are offered.

HEALTH AND PHYSICAL EDUCATION

PEH 114/115 P.E. 9 - Grade 9

PEH 214/215 P.E. 10 - Grade 10

PEH 314/315 P.E. 11 - Grade 11

PEH 414/415 P.E. 12 - Grade 12

Each student is required to complete four years of Physical Education and Health. Within this four-year program students will be introduced to a wide variety of physical activities including team sports, individual and dual sports. The course will provide the opportunity for students to acquire the skills necessary to achieve and maintain a healthful level of fitness. Focusing on wellness for life, students will prepare to continue a lifetime of physical activity. The course aims to assist students in developing an independent fitness style and promote regular, enjoyable, physical activity with an emphasis on personal fitness and improvement. All students participate in the *Fitnessgram* health-related fitness assessment program. Any student failing one marking period of Health or three marking periods of Physical Education must repeat the failed courses.

PEH 134/135 Adaptive P.E. 9, 10, 11, 12

PEH 234/235

PEH 334/335

PEH 434/435

IEP Team Recommendation

Placement in this course is made upon referral from the IEP Team. Individualized and small group instruction consistent with the Individual Education Plan is provided for each student referred.

PEH 124/125 Health 9

Grade 9

This marking period course covers topics including weight control, eating disorders, drug education, non-communicable diseases and human sexuality. The course includes the study of factors that contribute to wellness: learning to make health choices and decisions, goal setting, identifying different kinds of stress, dealing with conflict, and avoiding violent situations. Students will be enabled to take responsibility for their personal health and well-being.

PEH 224/225 Driver's Education

Grade 10

All tenth grade students take this marking period course, which covers the classroom-based theory portion of Driver's Education, injury prevention, drug and alcohol abuse and driving safely. Students use the *New Jersey State Driver's Manual* to study the laws governing driving and safety. Students will receive the state mandated thirty hours of theory instruction. At the conclusion of the course, students will take the written portion of the New Jersey Driver's Test.

PEH 324/325 Health 11

Grade 11

This marking period health course explores and reviews topics including emotional and mental health, personality development, consumer health, drug abuse prevention, human sexuality, basic first aid for injury prevention, and guidelines for navigating the complexities of the US healthcare system. Emphasis is placed on expanding students' understanding of the physical, mental, emotional and social effects of the use and abuse of alcohol, tobacco, and other drugs.

PEH 424/425 *Health 12*

Grade 12

This marking period health course focuses on human sexuality, relationships, and thanatology (death & dying). It also covers communication skills, responsible decision-making and violence prevention in relationships. Students will explore these topics and use the information presented to develop and solidify their own personal value system.

PEH 650 *Careers in Medicine*

Grade 11- 12

This is an exploratory program designed to help students considering a medical career gain a better understanding of the occupational opportunities in health care. Upon successful completion of the course, students may obtain Red Cross, CPR and first aid certification.

MATHEMATICS

MTH 101, 201, 301, 401 - Concepts of HS Math

IEP Team Recommendation

Students gain competency with a variety of functional mathematics skills that will support life skill development and enhance their ability to participate in community activities. Age-appropriate, community based uses of mathematics will be emphasized, including money skills, time, practical counting, basic operations, personal money management, and application of mathematical knowledge to everyday activities. Credit for these courses may be awarded for Structured Learning Experience (SLE)/work experience, accomplished in a school or community environment, that draws upon and enhances skills taught in this course.

*This course may not be accepted by NCAA

Strategies for Mathematics

MTH102 Algebra

MTH 202 Geometry

MTH 302 Algebra II

Teacher Recommendation

These courses are designed to support students in achieving mathematics skills outlined in the Common Core State Standards for High School: Number and Quantity, Algebra, Functions, Modeling, Geometry, Probability and Statistics. These courses are taken in addition to the required mathematics program. Individualized plans are developed for students to ensure improvement in specific skill areas.

MTH 113 ESL Math

ESL teacher Recommendation

ESL Math is designed to develop the academic language required for success in mainstreamed mathematics classes. Students in this class will develop the language background required for moving into the appropriate math course the following year.

MTH 213 ESL Math II

ESL teacher Recommendation

ESL Math II is a second year course designed to develop the academic language required for success in mainstreamed mathematics classes. Students in this class will develop the language background required for moving into the appropriate math course the following year.

MTH 311 ESL Math III

ESL Teacher Recommendation

ESL Math III is a third year course designed to develop the academic language required for success in mainstreamed mathematics classes. Students in this class will develop the language background required for moving into the appropriate math course the following year.

MTH 114 Honors Geometry

Prerequisites: Successful completion of Algebra I Teacher Recommendation

This is the honors level of the course entitled "Geometry." It includes the use of computer software to develop definitions and conjectures, as well as exposure to the interaction of art and mathematics in the study of such topics as the golden rectangle, tessellations, and fractal geometry. **WEIGHTED COURSE**

MTH 117 Algebra 1

Prerequisites: Successful completion of Advanced Grade 7 Math or Grade 8 Math

This course is a challenging academic treatment of first year algebra. Algebraic concepts and their relevance to the real number system are developed. The structure of algebra and its usefulness in solving real life problems are studied. Problem solving skills are expanded and opportunities to solve non-routine real life problems by integrating geometric/graphic interpretations are included. The use of the graphing calculator is incorporated throughout the course.

MTH 136 Algebra 1

IEP Team Recommendation

This course is designed to help students achieve general education curriculum proficiencies in a small group setting. Algebraic concepts and their relevance to the real number system are developed. The structure of algebra and its usefulness in solving real life problems are studied. The use of the graphing calculator is incorporated throughout the course. Instructional activities are modified according to the student's Individualized Educational Plan.

MTH 214 Honors Algebra 2

Prerequisites: Successful completion of Algebra 1, Honors Geometry (Teacher Recommendation preferred)

This course is designed to provide students with a rigorous, challenging academic study of second year algebra through trigonometry. This course includes a study of rational and transcendental functions, probability and statistics and Linear Algebra. **WEIGHTED COURSE**

MTH 217 Geometry

Prerequisites: Successful completion of Algebra 1

This course is a challenging academic treatment of geometry integrated with algebra. The ability to understand a mathematical system and its component parts are at the heart of the course. Developing a logical argument is an important outcome. Real world applications and the use of computer technology to augment instruction are incorporated at specific times throughout the year.

MTH 236 Geometry

IEP Team Recommendation

This course is designed to help students achieve general education curriculum proficiencies in a small group setting. The ability to understand a mathematical system and its component parts are at the heart of the course. Developing a logical argument is an important outcome. Real world applications and the use of computer technology to augment instruction are incorporated at specific times throughout the year. Instructional activities are modified according to the student's Individualized Educational Plan.

MTH 313 Precalculus

Prerequisites: Successful completion of Algebra 2

This course is a challenging academic treatment of Precalculus extending the knowledge the student gained in Algebra 2. This course includes a full academic treatment of trigonometry and the study of mathematical analysis.

MTH 314 Honors Precalculus

Prerequisites: Successful completion of Honors Algebra 2 (Teacher Recommendation preferred)

This course is designed to provide students with a rigorous challenging academic treatment of Precalculus. It includes the study of quadratic surfaces and inscribed figures, linear regression and equations, power and Taylor series. A student who masters the content will be prepared to take the Advanced Placement Calculus course.

WEIGHTED COURSE

MTH 317 Algebra 2

Prerequisites: Successful completion of Geometry

This course is a challenging academic treatment of second year algebra through the development of algebraic theory. This course includes an academic treatment of trigonometry and some Linear Algebra. A graphing calculator will be employed throughout the course to enhance the connections between the algebraic and geometric methods of solving algebraic problems.

MTH 336 Algebra 2

IEP Team Recommendation

This course is designed to help students achieve general education curriculum proficiencies in a small group setting. Algebraic concepts, the structure of algebra and its usefulness in solving real life problems are studied. Problem solving skills are expanded and opportunities to solve non-routine real life problems by integrating algebra I, geometry, algebra II and trigonometry are included. The use of the graphing calculator is incorporated throughout the course. Instructional activities are modified according to the student's IEP.

MTH 323 Probability Statistics and Discrete Math

Prerequisites: Successful completion of Algebra 2

This course is an academic treatment of probability, statistics, and discrete mathematics concepts as delineated in the Common Core State Standards. Students will understand and apply introductory probability and statistics concepts. In addition to probability and statistics, discrete mathematics concepts including logic, graph theory, electrical circuits, and business models will be studied. Real life data will be used throughout the course to illustrate and study the applications in our world.

MTH 410 Applied Mathematics

Prerequisites: Successful completion of Algebra 2

Applied mathematics helps students obtain a solid foundation in mathematical and computational knowledge tools like probability, applied algebra, and matrices.

MTH420 College Algebra

This course is intended to ease the transition for the study of college mathematics and provide students with the skills they need to perform well in college. The curriculum will extend an understanding of general concepts of polynomial, exponential, and logarithmic functions. Numerical operations and algebraic skills will be emphasized. The incorporation of technology through the use of graphing calculators will be emphasized to facilitate a deeper understanding of higher level mathematics. In addition, students will be challenged to increase their ability to perform mental math calculations by solving many problems without the aid of a calculator. Through the use of differentiated instruction, College Algebra will appeal to the diverse learning styles of students.

MTH 426 College Algebra

IEP Team Recommendation

This course is intended to ease the transition for the study of college mathematics and provide students with the skills they need to perform well in college. The curriculum will extend an understanding of general concepts of polynomial, exponential, and logarithmic functions. Numerical operations and algebraic skills will be emphasized. The incorporation of technology through the use of graphing calculators will be emphasized to facilitate a deeper understanding of higher level mathematics. In addition, students will be challenged to increase their ability to perform mental math calculations by solving many problems without the aid of a calculator. Through the use of differentiated instruction, College Algebra will appeal to the diverse learning styles of students.

MTH 430 Algebra III

Prerequisites: Successful completion of Algebra 2

This course is designed for students to extend their understanding of algebra, trigonometry and basic statistics. A thorough understanding of functions and their graphs will be stressed. The course provides an alternative to Precalculus for those students who intend to attend college, but are not likely to need Calculus for their majors.

MTH 460 *Advanced Placement Statistics*

Prerequisites: *Successful completion of Algebra 2 (Teacher Recommendation preferred)*

This is the Advanced Placement Course in Statistics developed by the College Board. It is a rigorous college level course in statistics designed for students who have a thorough knowledge of college preparatory mathematics through *Algebra 2* and wish to explore the study of statistics in depth. **WEIGHTED COURSE**

MTH 511 *Advanced Placement Computer Science A*

Prerequisites: *Successful completion of Introduction to Computer Programming and Geometry*

Recommendation of *Computer Programming* Teacher preferred. This is a full year course in computer programming using Java. At the heart of the course is the development of algorithms to solve problems.

WEIGHTED COURSE

MTH 512 *AP Computer Science Principles*

Prerequisites: *Grades 9-12 Successful completion of Algebra 1*

AP Computer Science Principles introduced students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With unique focus on creative problem solving and real-world applications, AP Computer Science Principles prepares students for college and career. Whether it's a 3-D animation, engineering, music, app development, medicine, visual design, robotics, or political analysis, computer science is the engine that powers the technology, productivity, and innovation that drive the world. Computer science experience has become an imperative for today's students and the workforce of tomorrow.

MTH 514 *Honors Data Structures and Advanced Programming*

Prerequisites: *Successful completion of Advanced Placement Computer Science A (Recommendation of Advanced Placement Computer Science A Teacher preferred)*

This is a full year course designed for the student who wants to further develop skills in the design of data structures and algorithms, the techniques of object-oriented programming and the use of the Java programming language. It is comparable to a second semester college-level course in Data Structures. **WEIGHTED COURSE**

MTH 517 *Intro to Computer Programming in C & Apps Development*

Prerequisites: *Successful completion of Algebra I*

Recommendation of Advanced Placement Computer Science A Teacher preferred

This is a full year course in computer programming designed to give students an introduction to the programming process using the language C, the language widely used in the software development industry. Topics will include fundamental programming concepts such as variables, decisions, loops and functions, algorithm design, and the history and development of computers. Students will then use C and xcode to develop "Apps" for handheld computing devices.

MTH 522 *Computer Science and Programming Concepts with Python (New Course)*

Grades 9-12

This course is an introduction to computer programming with the Python programming language. Python is one of the most popular programming languages in the world and is used to teach programming at six of the top ten computer science undergraduate programs in the United States. The basics of imperative programming will be covered as well as ideas from selected areas of computer science, data science and education. Topics will include programming and algorithms as well as coding, data, networking, and cybersecurity. The course is designed to help students learn programming basics while building their problem-solving skills.

MTH 525 *Robotics (New Course)*

Grades 9-12

This course presents an overview of robotics in practice and includes the following topics: motion planning, mobile mechanics, sensors, control mechanisms and programming. Students in this course will become familiar with electric, mechanical and pneumatic systems common to robots and techniques used to program controllers and robots. Robotics will focus on the application of course topics through the planning, development, programming and testing of solutions to a series of design problems.

MUSIC

MUS 700 *Advanced Placement Music Theory*

Grades 10-12

Approval of Course Instructor Teacher Recommendation preferred

This is an Advanced Placement course in music theory developed by the College Board. The focus of the course is the in-depth study and analysis of music from the Renaissance to the present, using the rudiments of music (scales, intervals, chorales, harmonic vocabulary). Also integrated are techniques of four-part writing and orchestration, counterpoint and fugue, extensive listening experiences, and some keyboard application. A goal of this course is to prepare students for the Advanced Placement Examination in music. Summer reading required.

WEIGHTED COURSE

MUS 705 *Concert Band*

Grades 9-12

All students requesting to take part in an instrumental music ensemble will be placed in at least the entry level instrumental ensemble, **Concert Band**. Through a comprehensive audition process including scales and band music, a student may be placed into an advanced ensemble, **Wind Ensemble**, for grades 10-12. Instrumental music students in any grade level may be placed in Honors Ensembles through an audition process as well. These ensembles include **Honors Concert Band, Honors Concert Band for grades 10-11, and Honors Wind Ensemble for Grades 10-12**. All “Honors” instrumental musical ensembles require students to sign a contract and meet comprehensive criteria. All Honors instrumental musical ensembles are **WEIGHTED COURSES**.

MUS 710 *Honors Concert Band*

Grade 9 - By audition only

This course requires participation in Concert Band MUS 705. Students will be required to sign a contract for Honors Credit. Comprehensive criteria for receiving Honors Credit must be met. **WEIGHTED COURSE**

MUS 715 *Wind Ensemble*

Grades 10-12 By audition for students not previously enrolled in Wind Ensemble. Approval required

This course is for students performing at an above average high school level. A limited number of out of school performances, including graduation and rehearsals are required.

MUS 720 *Honors Wind Ensemble*

Grades 10-12 - Approval of Course Instructor

This course requires participation in a broad spectrum of the band program. Numerous performances are integral to this course. Students will be required to sign a contract for Honors Credit. The comprehensive criteria for receiving honors credit must be met. A limited number of out of school performances, including graduation and rehearsals are required.

WEIGHTED COURSE

MUS 722 *Choir*

Grades 9-12

All students requesting to take part in a vocal music ensemble will be placed in at least the entry level vocal ensemble, **Choir**. Through a comprehensive audition process including vocal octavo reading and sight reading, a student may be placed into an advanced ensemble, **Concert Choir**, for grades 10-12. Vocal music students in any grade level may be placed in Honors Ensembles through an audition process as well. These ensembles include **Honors Choir and Honors Concert Choir**, the latter of which is for grades 10-12. All Honors vocal musical ensembles require students to sign a contract and meet comprehensive criteria. All Honors vocal musical ensembles are **WEIGHTED COURSES**.

MUS 725 Concert Choir

Grades 10-12 Approval of Course Instructor

This select choir studies choral literature from all periods and styles, both sacred and secular. Rudiments of music are taught, and emphasis is placed on techniques of correct vocal production, sight reading skills and total music development. Attendance is required at graduation and at all necessary dress rehearsals and concerts.

MUS 727 Honors Choir

Grade 9 - By audition only (Approval of Course Instructor)

This course requires participation in Choir MUS 722. Students will be required to sign a contract for Honors Credit. Comprehensive criteria for receiving Honors Credit must be met. **WEIGHTED COURSE**

MUS 730 Honors Concert Choir

Grades 10-12

By audition for students not previously enrolled in Concert Choir - Approval of Course Instructor

This course requires participation in Concert Choir as well as additional vocal ensembles such as Madrigals, Chorale, etc. Auditions for county, regional and state sponsored honors vocal ensembles are also integral to this course. Students will be required to sign a contract for Honors Credit. Comprehensive criteria for receiving honors credit must be met. Attendance is required at graduation and at all necessary dress rehearsals and concerts. **WEIGHTED COURSE**

MUS 740 Music Theory

Grade 9-12

Students in Music Theory class will gain technical knowledge and skills as well as familiarity with a wide variety of music including European classical, jazz and popular music and music of other (non-western) cultures. Critical thinking will be emphasized in composition skills, harmonization, and arranging exercises, and analysis of original works created by students.

SCIENCE

NINTH GRADE SCIENCE (REQUIRED) (Only for Class of 2022)

SCN 101, 201, 301, 401 *Concepts of HS Science*

IEP Team Recommendation

Students are introduced to the practical applications of concepts from Environmental Science, Biology, Chemistry and Physics, as they are used in home, community, and workplace settings. Project-based learning strategies will be employed. Credit for these courses may be awarded for Structured Learning Experience (SLE)/work experience, accomplished in a school or community environment that draws upon and enhances skills taught in this course.

*This course may not be accepted by NCAA.

SCN 112 *ESL Science I - (Lab Science)*

ESL Teacher Recommendation

This course is designed for the non-native English speaker and will focus on the concepts, skills and vocabulary in the Science curriculum. Topics include meteorology, scientific methods, cell biology, genetics, ecology, basic chemistry, and Newton's Laws are included in the program. Instruction will be based on the identified needs of individual students. Hands-on experiences and the use of technology will be an integral part of the instruction process.

SCN 114 *Honors Biology (Lab Science)*

A course designed for students who have the ability and interest to pursue a highly academic science program. Topics dealing with biochemistry, cells, metabolism, genetics, heredity of life, ecology and evolution will be studied in depth. A laboratory approach to the study of science is utilized which emphasizes the use of technology, analytical skills, experimental problem solving, scientific reporting, and independent work. Summer assignment, laboratory and literature based research are required. **WEIGHTED COURSE**

SCN 117 *Biology (Lab Science)*

A college prep course designed to enhance the understanding of the nature and philosophy of the science of life. The topics studied include scientific investigation, biochemistry, cell structure and function, basics of heredity, classification, ecology and evolution. Extensive and frequent in-depth laboratory exploration is a vital component of this course. Technology is used regularly in the analysis of data and presentation of research.

SCN 119 *Biology (Lab Science)*

This college prep course is designed to encourage the study of the nature of the science of life. The topics studied in the course include scientific investigation, cell processes, cell chemistry, genetics, ecology and evolution. This course includes laboratory investigations, technologically driven interactive sites, guided problem solving, research projects, scientific readings and working with manipulative models with a focus on differentiated instruction to meet student needs.

SCN 216 *Biology (Lab Science)*

IEP Team Recommendation

A course designed to encourage the study of the nature of the science of life. The topics studied in the course include scientific exploration, cell processes, cell chemistry, genetics, ecology and evolution. This course includes laboratory investigations, technologically driven interactive sites, guided problem solving, research projects, scientific readings and working with manipulative models. The Resource Program is designed to help students achieve general education curriculum proficiencies in a small group setting. Instructional activities are modified according to the student's Individualized Educational Plan.

TENTH GRADE SCIENCE (REQUIRED)
(Only for Class of 2021 and 2022)

SCN 112 *ESL Science I (Lab Science)*

ESL Teacher Recommendation

This course is designed for the non-native English speaker and will focus on the concepts, skills and vocabulary in the Science curriculum. Topics include meteorology, scientific methods, cell biology, genetics, ecology, basic chemistry, and Newton's Laws are included in the program. Instruction will be based on the identified needs of individual students. Hands-on experiences and the use of technology will be an integral part of the instruction process.

SCN 212 *ESL Science II (Lab Science)*

ESL Teacher Recommendation

This second year course is designed for the advanced non-native English speaker and will focus on the concepts, skills and vocabulary in the Science curriculum. Topics include meteorology, scientific methods, cell biology, genetics, ecology, basic chemistry, and Newton's Laws are included in the program. Instruction will be based on the identified needs of individual students. Hands-on experiences and the use of technology will be an integral part of the instruction process.

SCN 312 *ESL Science III (Lab Science)*

ESL Teacher Recommendation

ESL Science III is a third year course designed to develop, in the advanced non-native English speaker, the academic language required for success in mainstreamed science classes. Students in this class will develop the language background required for moving into the appropriate math course the following year.

SCN 214 *Honors Chemistry (Lab Science)*

Prerequisites: Algebra 1, Biology

Co-requisites: Geometry or Algebra 2 (Teacher Recommendation preferred)

This course is designed for students who have the ability and interest to pursue a highly academic science program. It includes exploration into the structure and reactivity of the atom, chemical bonding, phases of matter, chemical reactions, stoichiometry, thermodynamics and equilibrium. This course will rely on algebraic skills to solve quantitative problems. Weekly laboratory explorations and technology rich lessons will enhance the concepts and develop the skills of each student. A summer assignment is required.

WEIGHTED COURSE

SCN 223 *Chemistry (Lab Science)*

Prerequisites: Algebra 1, Biology

This course focuses on the structure and behavior of matter. Topics include scientific measurement, atomic and molecular structure, chemical reactions, stoichiometry, gas laws, thermodynamics, solutions and acids and bases. Standard laboratory equipment, along with supporting texts, multimedia, and computer simulations of chemical principles will be used extensively in this course. Students will rely on algebraic skills to solve quantitative problems. Laboratory activities, lab reports, and problem-solving are an integral part of the course.

SCN 300 *Conceptual Chemistry (Lab Science)*

This course is designed to focus on conceptual understanding of topics such as scientific measurement, physical and chemical properties, atomic models, chemical reactions, and the chemistry of life. Laboratory activities, projects and technology will be an integral part of the learning.

SCN 316 *Conceptual Chemistry (Lab Science)**IEP Team Recommendation*

This course is designed to focus on conceptual understanding of topics such as scientific measurement, physical and chemical properties, atomic models, chemical reactions, and the chemistry of life. Laboratory activities, project and technology will be an integral part of the learning. The Resource Program is designed to help students achieve general education curriculum proficiencies in a small group setting. Instructional activities are modified according to the student's Individualized Educational Plan.

ELEVENTH GRADE SCIENCE (REQUIRED)**(Only for Class of 2021 and 2022)**

Grade 11 students must take either some level of Physics or Physical Science to complete the entire set of NJSL standards. A NJ State integrated science assessment will be given to all juniors starting in 2017-18.

SCN 243 *Physics (Lab Science)**Prerequisite - Chemistry**Corequisite - Algebra 2*

This course is designed for college bound juniors and seniors. The student will study the basic principles of physics and their applications. Problem solving skills are emphasized and practiced. Topics include motion, forces, energy, heat, sound and light. Basic trigonometry is required for the course and is part of the curriculum. Regular laboratory exercises, research and computer based experiments provide an opportunity to correlate theoretical concepts with real life experiences.

SCN 244 *Honors Physics (Lab Science)**Prerequisite - Chemistry**Corequisite - Precalculus**Teacher Recommendation preferred*

This course is designed for students who have the ability and interest to pursue a highly academic science program. The student will study the basic principles of physics with an emphasis on problem solving. Topics include motion, forces, energy, sound, momentum, waves and oscillations. Regular laboratory exercises, research and computer based experiments provide an opportunity to correlate theoretical concepts with real life experiences. A summer assignment is required.

WEIGHTED COURSE

ELECTIVE SCIENCE OPTIONS:

These courses are open to all students who have successfully completed study in both Biology and Chemistry, and will either be concurrently enrolled in, or have completed study in the 3rd year of Physical Science.

(Only for Class of 2021 and 2022)

SCN 213 *Environmental Science (Lab Science)*

Two prior years of Science study: one in a Biology field and one in a Chemistry field

This course is designed to create environmentally responsible citizens by giving students a solid foundation in the basics of chemistry, physics, and biology while covering topics such as biomes, soil, air, water, population, and human impact on the planet. Laboratory work, outdoor field studies, and research projects will be a part of the program.

SCN 233 *Biology 2 (Lab Science)*

Prerequisite: Biology

This second year course will focus on significant biological topics such as the Diversity of life, Plant physiology, Evolution, Heredity and Reproduction, Human Anatomy & Physiology and Biotechnology. Students will use analytical, reading, research and laboratory skills to construct their ideas about living things.

SCN 304 *Advanced Placement Biology (Lab Science)*

Prerequisites: Biology, Chemistry Teacher Recommendation preferred

This course is designed for juniors and seniors who plan to pursue the biological sciences in college. The advanced placement curriculum will be closely followed. The class will meet a minimum of seven periods a week to allow for virtual lab practice, authentic lab preparation and advanced instruction in all major topic areas. The use of computers and other technology in the presentation of research and the analysis of data are a regular part of the program. Rigorous assessment practices that align and adhere to ETS AP Biology specifications will be employed. A summer assignment will be required.

WEIGHTED COURSE

SCN 310 *Marine Biology (Lab Science)*

Prerequisites: Biology, Chemistry

Designed for 11th and 12th grade students, this course offers an overview of major topics in marine biology and oceanography. The course begins by introducing the science of marine biology and the relationship between the marine environment and humanity. Students will learn how STEM components such as technology and engineering merge to provide us with answers about the sea. They will develop an understanding of the ocean environment, the geology of the ocean, and a fundamental understanding of water, waves, and tides. Evolution, ecology, and various current issues are interwoven throughout the curriculum and surprisingly tie together in seemingly unrelated areas. This course includes a laboratory component and dissections of marine organisms.

SCN 314 *Honors Anatomy and Physiology (Lab Science)*

Prerequisites: Biology, Chemistry (Teacher Recommendation preferred)

In this course human anatomy and physiology will be the common area of experiences designed to fit the needs of students who are interested in pursuing a career in the medical, nursing, biological and allied professions. Laboratory activities are an integral part of the program including the dissection of a cat. There is a required summer reading.

WEIGHTED COURSE

SCN 320 Forensic Science (Lab Science)

Prerequisites: Biology, Chemistry (Grades 11-12)

Forensic Science is the application of science to those criminal and civil laws that are enforced by police agencies in a criminal justice system. Major topics include processing a crime scene, collecting and preserving evidence, identifying types of physical evidence, organic and inorganic analysis of evidence, hair, fibers, and paint, toxicology, arson and explosion investigations, serology, DNA, fingerprints, firearms, and document analysis. The main focus of this course will be to emphasize the evidential value of crime scene and related evidence and the services of what has become known as the crime laboratory. This course combines basic theory and real laboratory experiments, creating an experiment-based situation for the better understanding of the students. The experiments used reinforce previously learned scientific principles rooted in Biology, Chemistry and Physics.

SCN 324 Advanced Placement Chemistry (Lab Science)

Prerequisites: Chemistry, Algebra 2 (Teacher Recommendation preferred)

This course is designed to be equivalent to the first year of college Chemistry. Advanced mastery of the concepts learned in the first year of chemistry are integrated with new topics such as Kinetics, Electrochemistry and more as mandated by national AP standards. The class will meet a minimum of seven periods a week to allow for extensive laboratory exploration and advanced instruction in all major topic areas. Rigorous assessment practices that align and adhere to national College Board AP Chemistry specifications will be employed. A summer assignment is required. **WEIGHTED COURSE**

SCN 330 Genetics (Lab Science)

Prerequisites: Biology (Grades 11-12)

In the study of Genetics, DNA, RNA, protein synthesis, mitosis, and meiosis will be reviewed and expanded upon. The biotechnology unit will cover aspects of this growing field, including genetically engineered products, gene therapy, and DNA fingerprinting. Problems involving the various patterns of inheritance will be solved by using pedigrees, Punnett squares, and the laws of probability. Emphasis is on human genetics. Genetic disorders will be studied along with genetic screening and counseling. **SEMESTER COURSE**

SCN 334 Advanced Placement Environmental Science (Lab Science)

Prerequisites: Biology, Chemistry (Teacher Recommendation preferred)

This course is designed for juniors and seniors interested in exploring and investigating the interrelationships of the natural world. Students will identify and analyze environmental problems, both natural and human-made, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving and/or preventing them. The course will meet seven periods a week to allow for participation in hands-on, laboratory and field investigations in order to apply scientific principles, concepts, and methodologies. Rigorous assessment practices that align and adhere to the national College Board AP Environmental Science specifications will be employed. A summer assignment is required. **WEIGHTED COURSE**

SCN 335 Organic Chemistry (Lab Science)

Prerequisites: Biology, Chemistry

This is a one semester elective course for those seniors/juniors that wish to take another semester of chemistry in preparation for the medical field. The molecules of living organisms will be studied as an introduction to organic chemistry. A functional group approach, emphasizing structure, nomenclature, preparation and reactivity is used.

SCN 370 *Nutritional Science (Lab Science)*

Prerequisites: *Biology, Chemistry (Grades 11-12)*

This is a one semester elective course for those students interested in pursuing careers as dieticians, Food and Nutrition specialists, Nutraceuticals or Public Health professionals. This course offers fundamental knowledge toward that goal. This course studies the effects of food components on the metabolism, health, performance, and disease resistance of humans. Also included is the study of human behaviors related to food choices.

SCN 414 *Advanced Placement Physics C: Electricity, Magnetism / AP Physics C: Mechanics (Lab Science)*

Prerequisites: *Physics*

Corequisite: *Calculus*

Teacher Recommendation preferred

This course is a continuation of first year Physics with the emphasis on electricity, magnetism, mechanics and other topics in modern physics. The class will meet a minimum of seven periods a week to allow for extensive laboratory investigations, including the use of technological equipment. A goal of this course is to prepare students for the Advanced Placement C examination in Physics. A summer assignment will be required. **WEIGHTED COURSE**

SCN 424 *Astronomy (Lab Science)*

This is a one semester course is designed for juniors and seniors who have an interest in astronomy. It will be a laboratory class covering topics on the solar system, stellar evolution, cosmology, and conquering space. Laboratory investigations, reports, readings, and research will be an integral part of the program.

SOCIAL STUDIES

SST 101, 201, 301, 401 *Concepts of HS Social Studies*

IEP Team Recommendation

Students are introduced to aspects of practical learning in the areas of civic responsibility, local political awareness, voting, persuasion, community service, and self-advocacy. Written communication skills are employed and enhanced through projects designed to explore students' effectiveness at intervening on behalf of themselves and others. Credit for these courses may be awarded for Structured Learning Experience (SLE)/work experience, accomplished in a school or community environment that draws upon and enhances skills taught in this course.

*This course may not be accepted by NCAA

SST 112 *ESL World History*

ESL Teacher Recommendation

This course is designed to provide ESL students with a chronological overview of the political, social, economic and cultural traditions of the world from the medieval period in Europe through the modern world. Emphasis will be placed on using the experiences of those for whom English is a second language to develop a deeper understanding of the world and its history.

SST 114 *Honors World History*

Teacher Recommendation preferred

This course is designed to provide students with a rigorous and challenging approach to the study of the political, social, economic and cultural traditions of the world from the medieval period in Europe through the modern world. Students will examine primary and secondary sources, conduct research, compare historical narratives, and use critical thinking skills to interpret historical events. Oral and written communication skills will be utilized extensively as students will be encouraged to make relevant connections between the past and the present. Summer reading is required.

WEIGHTED COURSE

SST 116 *World History*

IEP Team Recommendation

The resource program World History course is designed to provide students with a chronological overview of the political, social, economic and cultural traditions of the world from the medieval period in Europe through the modern world. It is also designed to help students achieve general education curriculum proficiencies in a small group setting. Instructional activities are modified according to the student's Individualized Education Plan. The course offers students the opportunity to engage in the study of world history within an academic environment designed to accommodate uniquely different learning styles. The curriculum places an emphasis on the application of knowledge and the development of independent thought. Students will be encouraged to think critically, interpret historical events, and make relevant connections between the past and the present. Summer reading is required.

SST 117 *World History*

World History is designed to provide students with a chronological overview of the political, social, economic and cultural traditions of the world from the medieval period in Europe through the modern world. The course offers students the opportunity to engage in the study of world history within an academic environment designed to accommodate uniquely different learning styles. The curriculum places an emphasis on the application of knowledge and the development of independent thought. Students will be encouraged to think critically, interpret historical events, and make relevant connections between the past and the present. Summer reading is required.

SST 212 *ESL United States History 1*

ESL Teacher Recommendation

This course provides ESL students with a chronological approach to United States History from pre-Columbian times to the late 1800s. Emphasis is placed on developing citizenship skills and an awareness of the roots of American history, government, culture, and society.

SST 214 *Pre-Advanced Placement United States History 1*

Teacher Recommendation preferred

This course is the first year of a highly demanding two year sequence which follows the AP curriculum. Students can expect to be immersed in a scholarly, academic and detailed survey of American history. Emphasis is placed on the development of complex thinking processes and the analysis of a variety of historical perspectives. Summer reading assignment is required.

WEIGHTED COURSE

SST 216 *United States History 1*

IEP Team Recommendation

The resource program United States History 1 course is designed to help students achieve general education curriculum proficiencies in a small group setting. Instructional activities are modified according to the student's Individualized Educational Plan. This course offers students a chronological approach to US History from pre-Columbian times to the late 1800's. Students will be provided with the opportunity to develop and apply the skills of the historian using a variety of primary and secondary sources. Through the process of interactive learning, students will develop a greater understanding of the social, political, economic, and geographic forces which shaped our nation. Students will be expected to think critically, interpret historical events, and make relevant connections between the past and the present. Summer reading is required.

SST 217 *United States History 1*

Prerequisite: World History

This course offers students a chronological approach to US History from pre-Columbian times to the late 1800's. Students will be provided with the opportunity to develop and apply the skills of the historian using a variety of primary and secondary sources. Through the process of interactive learning, students will develop a greater understanding of the social, political, economic, and geographic forces which shaped our nation. Students will be expected to think critically, interpret historical events, and make relevant connections between the past and the present. Summer reading is required.

SST 312 *ESL United States History 2*

ESL Teacher Recommendation

This course provides ESL students with a chronological approach to United States history from the late 1800s to the present. Emphasis is placed on developing citizenship skills and an awareness of American history, government, culture and society during the last century.

SST 314 *Advanced Placement United States History 2*

Teacher Recommendation Preferred

This course is the second of a highly demanding two year sequence which follows the AP curriculum. At the end of this scholarly, academic and detailed survey of American history, students will have the opportunity to take the AP exam. Summer reading is required. **WEIGHTED COURSE**

SST 316 American Studies: United States History 2*IEP Recommendation*

The Resource Program United States History 2 course is designed to help students achieve general education curriculum proficiencies in a small group setting. Instructional activities are modified according to the student's Individualized Educational Plan. This course is a continuation of *United States History 1* and features a chronological study of United States history from the late 1800's to the present. The forces that shaped and continue to shape our political, economic, and social institutions will be studied using a variety of primary and secondary sources. Students will be expected to think critically, interpret historical events, and make relevant connections between the past and the present. Summer reading is required.

SST 317 American Studies: United States History 2**Prerequisite:** *World History and United States History 1*

This course is a continuation of United States History 1 and features a chronological study of United States history from the late 1800s to the present. The forces that shaped and continue to shape our political, economic, and social institutions will be studied using a variety of primary and secondary sources. Emphasis will be placed on the development of a meaningful understanding of history. Students will be expected to think critically, interpret historical events, and make relevant connections between the past and the present. Summer reading is required.

SOCIAL STUDIES ELECTIVES**SST 500 Institute for Political and Legal Education***Grade 12*

In this course, emphasis will be placed on active, authentic student involvement in American politics, government and law. The course focuses on the development and application of skills involved in political, legislative, governmental and judicial processes. Students will have opportunities for competitive and cooperative leadership roles through participation in mock trials, model congress, and mock election activities. Some cost is associated with field trips.

NOTE: MEETS FOR TWO PERIODS.

SST 504 Human Behavior 1*Grades 11, 12*

This is a one semester course offers opportunities for students to explore the development of personality and how the environment influences personal behavior. Emphasis is placed upon student experiences, reading, group discussion and class projects.

SST 505 Human Behavior 2*Grades 11, 12*

This is a one semester course which is a systematic study of people's behavior in groups. Students will become more aware of the effect groups have on the way they think and act and develop an objective perspective toward their social environment.

SST 510 History of Sports and Society*Grades 10-12*

This is a one semester course which will examine the role that sports have played in our society and culture. Students will study the origins of sports, such as baseball, hockey, football, basketball, and the formation of the Olympic games. Learning the evolution of the rules and how they were actually played will be included in the study. Emphasis will be given to the relationship between sports and society, including race, gender, economics, and war. The course will also examine the impact of sports on culture through literature and film excerpts.

SST 540 Civics and Government**SST 544 Honors Civics and Government**

Grades 11, 12

This course will be available as a full year junior/senior elective in Social Studies focusing on the theme of Public Issues and Civic Participation. Issues examined in this course will include: Constitutional Underpinnings of US Government, Political Parties, Interest Groups, and Mass Media, Institutions of National Government, the Making and Implementation of Public policy, and Civil Rights and Civil Liberties. The course will be offered for all juniors and seniors, but students can voluntarily “contract” to an Honors level (for a weighted grade) which would involve more rigorous assessment and greater expectations.

SST 520 Military History of the United States

Grades 11, 12

Students gain an understanding of United States' military history through a careful examination of the historical factors and events which have shaped the evolution of America's armed forces. Particular emphasis is placed upon the unique position of the military within the context of political, civic and social structure of our democratic republic. This course challenges students to develop critical thinking skills through the interpretation of historical events and to make connections between the past and the present.

SST 530 Advanced Placement European History

Grade 12 - Teacher Recommendation preferred

This full year course follows the AP curriculum, which stresses the political, intellectual, cultural, social and economic development of European life since 1450. A goal of this course is to prepare students to take the Advanced Placement Examination in European History. Summer reading is a requirement of this course.

WEIGHTED COURSE

SST 534 Advanced Placement Government & Politics

Grade 12 Teacher Recommendation

This full year course follows the AP curriculum and will give students an analytical perspective on government and politics in the US. The course involves the study of general concepts and the analysis of specific case studies. The five basic areas of study within the course are: The constitutional and underpinnings of US government; political beliefs and behaviors; political parties and interest groups; institutions and policy processes of national, state, and local government; and civil rights and civil liberties. Summer reading is a requirement for this course.

WEIGHTED COURSE

SST 550 Philosophy and Logic

Grades 11-12

This one semester course is to encourage the student to develop an insight into the structure, the meaning and purpose of human life. In short, the student is being asked to examine his/her own lifestyle as it reflects his/her own life philosophy. In pursuing this aim, the student will be encouraged to examine the basic questions about the nature of man and society, the meaning of reality, and the quest for truth. He/she will be led into this discovery and exploration with readings and discussion that will attempt to answer the previous questions. Students will also explore schools of philosophy and contributions of major philosophers. The historical focus should assist students in a deeper understanding of the philosophical heritage in our community's cultural mosaic. Logical thinking and readings of philosophers will assist students to accomplish this task. **SEMESTER COURSE**

WORLD LANGUAGES

WLA 113, 133, 143 *French 1, Italian 1, Spanish 1*

Emphasis is on the four language acquisition skills; listening, speaking, reading and writing. The student is guided through stages of understanding, imitation, repetition, and substitution using contemporary dialogues. A variety of materials are used to introduce the student to the novice level of language study and to the cultures and backgrounds of the people who speak it.

WLA 115 *Spanish 1*

IEP Team Recommendation

Emphasis is on the four language acquisition skills; listening, speaking, reading and writing. The student is guided through stages for basic understanding using a variety of materials to introduce the students to the novice level of language study and the cultural background of the people who speak it.

WLA 213, 233, 243 *French 2, Italian 2, Spanish 2*

Successful completion of Level 1,

These courses serve as a continuum for students at the first level courses as a normal progression in language learning. Listening, speaking and reading are stressed and carefully structured. Writing skills are developed. The use of audio-visual aids continues to strengthen the skills of understanding and speaking and the knowledge of grammatical structures. Cultural enrichment also is included.

WLA 215 *Spanish 2*

Successful completion of Level 1, IEP Team Recommendation

Emphasis is on the four language acquisition skills; listening, speaking, reading and writing. The student is guided through stages for basic understanding using a variety of materials to introduce the students to the novice-mid level of language study and the cultural background of the people who speak it.

WLA 214, 234, 244 *Honors French 2, Honors Italian 2, Honors Spanish 2*

Successful completion of Level 1 Teacher Recommendation preferred

Honors credit is awarded to students in regular Level 2 classes who successfully complete predetermined differentiated activities as outlined in the curriculum. Summer assignment is required. **WEIGHTED COURSES**

WLA 313, 333, 343 *French 3, Italian 3, Spanish 3*

Successful completion of Level 2

The third year is based on contemporary readings reflecting customs and culture. The student continues to practice comprehension and writing skills.

WLA 314, 334, 344 *Honors French 3, Honors Italian 3, Honors Spanish 3*

Successful completion of Level 2 Teacher Recommendation preferred

These courses serve as the continuum for students of previous Level 2 Honors courses. Honors credit is awarded to students in regular Level 3 classes who successfully complete predetermined differentiated activities as outlined in the curriculum. Summer assignment is required. **WEIGHTED COURSES**

WLA 413, 433, 443 *French 4, Italian 4, Spanish 4*

Successful completion of Level 3

The fourth year of language study is designed to serve as the continuum for the students who have had a three-year sequence. The language sequence continues with an emphasis on linguistic command of the target language.

WLA 414, 434, 444 *Honors French 4, Honors Italian 4, Honors Spanish 4*

Successful completion of Level 3 Teacher Recommendation preferred

These courses are for students who are selected on the basis of past performance of superior quality. They also serve as the continuum for students of previous Level 3 Honors courses. Honors credit is awarded to students in regular Level 4 classes who successfully complete predetermined differentiated activities as outlined in the curriculum. Summer assignment is required. **WEIGHTED COURSES**

WLA 514, 534, 544 *Advanced Placement French, Italian, Spanish Language and Culture*

Teacher Recommendation

Taught as college-level courses, A.P. courses are intended for students who have a high level of proficiency in the target language. The course content will reflect cultural interests as well as develop the skills necessary for the A.P. World Language Exam. At the end of these highly demanding courses, students will be prepared encouraged to take the A.P. World Language Exam. Summer assignment is required. **WEIGHTED COURSES**

WLA 543 *Spanish 5*

Successful completion of Level 4

This course is designed to serve as the continuum for students who have had a three year high school sequence beginning with Spanish 2. The sequence continues with an emphasis on linguistic command of the target language, culture and communication in particular.

TRANSITION SERVICES

TSD 101, 201, 301, 401 *Transition Services*

Grades 9 – 12

IEP Team Recommendation

Transition Services is designed for students who have Individualized Education Plans. This class provides a set of coordinated activities and strategies for job awareness, life skills, basic job skill acquisition as well as acquisition of social skills. This class focuses on skills that are transferrable to the workplace and independent living. Community based instruction including job sampling and structured learning experiences will be employed to acclimate the student to the world of work and the community at large.

**MORRIS COUNTY SCHOOL OF TECHNOLOGY
SHARED TIME PROGRAM**

Grades: 11 and 12

Morris County School of Technology provides students the opportunity to receive daily career and technical training as part of their junior and/or senior high school program. Academic subjects are taken at the home school. Students are then transported to Morris County School of Technology for specialized career and technical training.

Minimum Requirements:

1. Have been enrolled as a 11th or 12th grader in the home high school. Tenth graders may be considered for career and technical courses on an individual basis.
2. Have an acceptable academic, attendance and behavior record in the home school.
3. Complete an application online at www.mcvts.org/admissions.
4. Have a sincere interest in the program.
5. Possess sufficient motivation to succeed in the chosen program.
6. Have sufficient maturity to work in a shop setting.

APPLIED TECH/ INDUSTRIAL ARTS (TEC)

TEC 600	9-12	Woods Technology 1	1
TEC 603	10-12	Woods Technology 2	1
TEC 605	9-12	Television Production 1	1
TEC 606	10-12	Television Production 2	1
TEC 610	9-12	Auto Fundamentals	1
TEC 630	9-12	Engineering CAD 1	½
TEC 631	10-12	Engineering CAD 2	1
TEC 633	10-12	Engineering CAD 2 Honors	1
TEC 634	10-12	Architectural. CAD 1	1
TEC 635	11-12	Architectural. CAD 2	1
TEC 637	11-12	Architectural. CAD 2 Honors	1
TEC 640	9-12	Theatrical Stagecraft (Semester 1)	½
TEC 642	9-12	Theatrical Stagecraft (Semester 2)	½
TEC 650	9-12	Imagineering	1
TEC 653	10-12	Auto Mechanics. 1 PHHS	3
TEC 654	11-12	Auto Mechanics. 2 PHHS	3
TEC 660	9-12	Introduction to Design Tech	½
TEC 661	9-12	Design Tech II	½
TEC 663	9-12	Small Engines	½

ART (ART)

ART 700	9-12	Ceramics 1	½
ART 705	9-12	Ceramics 2	½
ART 710	9-12	Drawing 1	½
ART 711	9-12	Drawing 2	½
ART 715	10-12	Painting	1
ART 721	10-12	AP Studio Art	1
ART 724	11-12	Honors Art Portfolio	1
ART 730	10-12	Advanced Ceramics	1
ART 735	9-12	Multi Art	1
ART 750	9-12	Graphic Design	1
ART 751	11-12	Animation	1
ART 755	9-12	Digital Photography	1

BUSINESS (BUS)

BUS 455	9-12	Personal Finance	½
BUS 460	9-12	Pathways to Business & Car.	½
BUS 535	11-12	AP Economics	1
BUS 615	11-12	Bus. Org. & Mgmt.	1
BUS 620	10-12	Honors College Prep. Acct.	1
BUS 624	10-12	Accounting 1	1
BUS 630	10-12	Mkt. Adv. & Sales	1
BUS 635	11-12	Virtual Enterprise	1

COOPERATIVE VOC. ED. (CVE)

CVE 610	12	Cooperative Ed. CE	3
CVE 615	12	CE on the Job	0

ENGLISH LANGUAGE ARTS (ENG)

ENG 101	9	Concepts of HS English 1	1
ENG 102	9	Strategies for Reading and Writing 9	1
ENG 113	9-12	ESL English	1
ENG 114	9	Honors English 1	1

ENG 116	9	English 1	1
ENG 117	9	English 1	1
ENG 201	10	Concepts of HS English 2	1
ENG 202	10	Strategies for Reading and Writing 10	1
ENG 214	10	Honors English 2	1
ENG 216	10	English 2	1
ENG 217	10	English 2	1
ENG 301	11	Concepts of HS English 3	1
ENG 302	11	Strategies for Reading and Writing 11	1
ENG 314	11	Honors English 3	1
ENG 316	11	Basic College English 3	1
ENG 343	11	College English 3	1
ENG 353	11	Basic College English 3	1
ENG 323	11	AP Language and Composition	1
ENG 401	12	Concepts of HS English 4	1
ENG 414	12	AP Literature and Composition	1
ENG 416	12	Basic College English 4	1
ENG 453	12	Basic College English 4	1
ENG 700	9-12	Creative Writing	1
ENG 715	9-12	Public Speaking	½
ENG 720	9-12	Journalism	½

ESL

ESL 111	9-12	English as a Second Language	1
ESL 115	9-12	English as a Second Language	2

FAMILY AND CONSUMER SCIENCE (FCS)

FCS 615	9-12	Intro to Food Prep & Nutrition	1
FCS 620	10-12	International Foods	1
FCS 630	9-12	Child Development/Parenting	1
FCS 640	10-12	Honors Human Development	1

MATHEMATICS (MTH)

MTH 101	9	Concepts of HS Math 1	1
MTH 102	9	Strategies for Algebra	1
MTH 113	9-12	ESL Math I	1
MTH 114	9-10	Honors Geometry	1
MTH 117	9	Algebra I	1
MTH 136	9	Algebra 1	1
MTH 201	10	Concepts of HS Math 2	1
MTH 202	10	Strategies for Geometry	1
MTH 213	9-12	ESL Math II	1
MTH 214	10-11	Honors Algebra 2	1
MTH 217	9-10	Geometry	1
MTH 236	10	Geometry	1
MTH 301	11	Concepts of HS Math 3	1
MTH 302	11	Strategies for Algebra 2	1
MTH 313	11-12	Precalculus	1
MTH 314	11-12	Honors Precalculus	1
MTH 317	11	Algebra 2	1
MTH 323	11-12	Probability, Stat. & Disc Math	1
MTH 336	11	Algebra 2	1
MTH 401	12	Concepts of HS Math 4	1
MTH 410	12	Applied Mathematics	1
MTH 413	12	Calculus	1
MTH 414	12	AP Calculus BC	1
MTH 420	12	College Algebra	1
MTH 426	12	College Algebra	1
MTH 430	11-12	Algebra III	1
MTH 460	10-12	AP Statistics	1
MTH 511	9-12	AP Computer Science A	1
MTH 512	10-12	AP Computer Science Principles I	1
MTH 514	10-12	Hon. Data Structures & Adv Prg I	1
MTH 517	9-12	Intro. to Comp. Prog. in C & Apps Development	1
MTH 522	9-12	Computer Science and Programming Concepts with Python	1
MTH 311	11-12	ESL Math III	1
MTH 525	9-12	Robotics	1

MUSIC (MUS)

MUS 700	10-12	AP Music Theory	1
MUS 705	9-12	Concert Band	1
MUS 710	9	Honors Concert Band	1
MUS 715	10-12	Wind Ensemble	1
MUS 720	10-12	Honors Wind Ensemble	1
MUS 722	9-12	Choir	1
MUS 725	10-12	Concert Choir	1
MUS 727	9	Honors Choir	1
MUS 730	10-12	Honors Concert Choir	1
MUS 740	9-12	Music Theory	1

PHYSICAL EDUCATION (PEH)

PEH 114/115	9	Phys. Ed. 4/5 days	¾
PEH 124/125	9	Health 4/5 days	¼
PEH 134/135	9	Adapt. PE 4/5 days	¾
PEH 214/215	10	Phys. Ed. 4/5 days	¾
PEH 224/225	10	Drivers Ed. 4/5 days	¼
PEH 234/235	10	Adapt. PE 4/5 days	¼
PEH 314/315	11	Phys. Ed. 4/5 days	¾
PEH 324/325	11	Health 4/5 days	¼
PEH 334/335	11	Adapt. PE 4/5 days	¾
PEH 414/415	12	Phys. Ed. 4/5 days	¾
PEH 424/425	12	Health 4/5 days	¼
PEH 650	11-12	Careers in Medicine	1

SCIENCE (SCN)

SCN 101	9	Concepts of HS Science 1	1
SCN 201	10	Concepts of HS Science 2	1
SCN 301	11	Concepts of HS Science 3	1
SCN 401	12	Concepts of HS Science 4	1
SCN 112	9-12	ESL Science I	1
SCN 114	9-10	Honors Biology	1
SCN 117	9-10	Biology	1
SCN 119	9-10	Biology	1
SCN 212	9-12	ESL Science II	1
SCN 213	11-12	Environmental Science	1
SCN 214	10-12	Honors Chemistry	1
SCN 216	9-10	Biology	1
SCN 223	10-12	Chemistry	1
SCN 233	11-12	Biology 2	1
SCN 243	10-12	Physics	1
SCN 244	11-12	Honors Physics	1
SCN 300	11-12	Conceptual Chemistry	1
SCN 304	11-12	AP Biology	1
SCN 310	11-12	Marine Biology	1
SCN 314	11-12	Honors Anat. & Physiology	1
SCN 316	10-12	Conceptual Chemistry	1
SCN 320	11-12	Forensic Science	1
SCN 324	11-12	AP Chemistry	1
SCN 330	11-12	Genetics	½
SCN 334	11-12	AP Environmental Science	1
SCN 335	11-12	Organic Chemistry	½
SCN 370	11-12	Nutritional Science	½
SCN 414	11-12	AP Physics C	1
SCN 424	11-12	Astronomy	½
SCN 312	9-12	ESL Science III	1

SOCIAL STUDIES (SST)

SST 101	9	Concepts of HS S.S.	1
SST 201	10	Concepts of HS S.S.	1
SST 301	11	Concepts of HS S.S.	1
SST 401	12	Concepts of HS S.S.	1
SST 112	9-12	ESL World History	1
SST 114	9	Honors World History	1
SST 116	9	World History	1
SST 117	9	World History	1
SST 212	9-12	ESL U.S. History 1	1
SST 214	10	U.S. History 1 Pre-AP	1
SST 216	10-11	U.S. History 1	1
SST 217	10-11	U.S. History 1	1
SST 312	9-12	ESL U.S. History 2	1
SST 314	11	AP U.S. History 2	1
SST 316	11	American Studies U.S. 2	1
SST 317	10-11	American Studies U.S. 2	1
SST 500	12	Inst. for Political & Legal Ed.	2
SST 504	11-12	Human Behavior 1	½
SST 505	11-12	Human Behavior 2	½
SST 510	10-12	History of Sports and Society	½
SST 520	11-12	Military History of U.S.	1
SST 530	12	AP European History	1
SST 534	12	AP Government & Politics	1
SST 540	11-12	Civics and Government	1
SST 544	11-12	Honors Civics & Government	1
SST 550	11-12	Philosophy and Logic	½

TARGET: TEACH PARSIPPANY

TCH 400	12	Target Teach	1
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TRANSITION SERVICES (TSD)

TSD 101	9	Transition Services	1
TSD 201	10	Transition Services	1
TSD 301	11	Transition Services	1
TSD 401	12	Transition Services	1

WORLD LANGUAGES (WLA)

WLA 113	9-12	French 1	1	WLA 333	10-12	Italian 3	1
WLA 115	9-12	Spanish 1	1	WLA 334	10-12	Honors Italian 3	1
WLA 133	9-12	Italian 1	1	WLA 343	10-12	Spanish 3	1
WLA 143	9-12	Spanish 1	1	WLA 344	10-12	Honors Spanish 3	1
WLA 213	9-12	French 2	1	WLA 413	11-12	French 4	1
WLA 214	9-12	Honors French 2	1	WLA 414	11-12	Honors French 4	1
WLA 233	9-12	Italian 2	1	WLA 433	11-12	Italian 4	1
WLA 234	9-12	Honors Italian 2	1	WLA 434	11-12	Honors Italian 4	1
WLA 215	9-12	Spanish 2	1	WLA 443	11-12	Spanish 4	1
WLA 243	9-12	Spanish 2	1	WLA 444	11-12	Honors Spanish 4	1
WLA 244	9-12	Honors Spanish 2	1	WLA 514	11-12	AP French Language and Culture	1
WLA 313	10-12	French 3	1	WLA 534	11-12	AP Italian Language and Culture	1
WLA 314	10-12	Honors French 3	1	WLA 543	11-12	Spanish 5	1
				WLA 544	11-12	AP Spanish Language and Culture	1