

Middletown High School

Course Catalog

2011 - 2012

High Expectations... Rich Opportunities





Alan Gonzalez, Executive Principal

The mission of Middletown High School is to provide an environment in which each student, through education, may attain his or her full potential. We exist so that young adults may be given the opportunity to develop cognitive, emotional, and ethical maturity. We do this by helping young people to develop skills, attitudes, and understanding that will enable them to lead intelligent, creative, healthy, and productive lives. In addition, we share responsibility with society to ensure that our students emerge from this school equipped to serve as productive members of the community.

This publication was produced by Colleen Wormsley in collaboration with Ann Hall, Director of Guidance Services and Programs.

A Message From Administration

Dear Students,

High school is an incredibly important time in your life. The programs and courses in this Course Catalog are designed to help you succeed and achieve your fullest potential. The Catalog will assist you, and your parents, in the selection process by offering detailed course descriptions, examination information, and graduation requirements.

Many courses have been revised and new courses have been added to the Course Catalog. Our objective is to provide you with a broad, yet challenging course of study. A nine-period instructional day should accommodate your scheduling needs and allow for exploration of new courses of study. It also ensures that you are able to meet all course requirements for graduation in four years, while providing the opportunity to obtain more than the minimum 22 credits needed to graduate.

In February 2011, you will meet with your guidance counselor to determine your schedule for the 2011-12 school year. In addition, high school guidance counselors will visit eighth-graders during February to create schedules for the 2015 graduating class.

After meeting with your counselor, please review and complete the Course Request Form with your parents and have it signed. This form needs to be returned to your guidance counselor by March 1, 2011, in order to ensure timely scheduling.

Please keep this Course Catalog as a reference throughout the school year and contact your guidance counselor with any concerns or questions.

Sincerely,

Alan Gonzalez, Executive Principal
Tanya Davis, House I Principal
Michelle Zernone, House II Principal
Jessica Turner, House III Principal
Carl Pabon, House IV Principal

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School Goals

1. To achieve a 95% school-wide attendance rate.
2. To achieve a 95% participation rate for New York State exams.
3. Ten percent increase to mastery level (85%) on all New York State Regents exams.
4. Ten percent increase on all grades for the New York State Regents exams.
5. To increase the use of data to drive curriculum instruction.
6. To increase parental communication and involvement.

Catalog Key

Course Title: Regents titles are used when available. Locally prepared courses use titles representative of the course content.

Credit Assigned: Units of credit are given upon successful completion of a course.

Exams: Local, Regents, and Advanced Placement (AP).

Prerequisites: Requirements for entry into the course.

Class Weight: College/AP classes are weighted 1.10
Honors classes are weighted 1.05
Regents/Core classes are weighted 1.00

New Course: *

Pending NCAA Approval: **



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What Can Guidance Do For You?

The Middletown High School Guidance Department assists students, parents, teachers, and administrators in order to help you achieve academic success, meet your goals, and assume personal academic responsibility.

Middletown's Developmental School Counseling Program is:

- For all students, helping them learn effectively and efficiently.
- An organized and planned curriculum that is sequential and flexible.
- Part of the total educational process, with counselors who provide specialized counseling services and interventions.

The Guidance Department promotes:

- Student Achievement
- Career Planning
- Personal/Social Development

Counselors work with teachers, administrators, and parents on:

- Student Academic Performance
- Student Behavior
- Social/Emotional Needs
- Classroom Guidance Activities
- Counseling Interventions
- Home/School Communication
- Parent/Child Relationships
- Parent-teacher Conferences
- Community Agency Referrals

Parents with questions and/or concerns should contact Ann Hall, Director of Guidance Services and Programs, at (845) 326-1628.

The College & Career Center

Students faced with the task of deciding what to do after high school are often confused and overwhelmed. The College and Career Center at Middletown High School works closely with the Guidance Department to help students and their parents understand the college admissions process, maximizing students' chances of being accepted at their school of choice.

The College and Career Center offers students college catalogs, books, videos, and *Bridges*, a web-based college and career planning program, to help narrow their search. In addition, the Center also publishes the College Planner and Scholarship Guide for high school students.

The College Planner, a 35-plus page publication, takes students step-by-step through the college application process—planning for junior and senior year, taking the SAT/ACT and Subject Tests, choosing a college, getting the most from college visits, and handling applications and financial aid—while the Scholarship Guide describes local and national scholarships available to college-bound students. Students can download the College Planner and Scholarship Guide by logging on to: www.middletowncityschools.org/mhs/mhshome.htm.

The College and Career Center also hosts a college fair at Middletown High School where more than 70 universities and colleges attend annually. From private four-year universities to two-year colleges to SUNY schools, high schoolers have the opportunity to meet with various college admission counselors to find the school that is right for them. An annual alumni college fair is also hosted at the school. As part of the fair, current high schoolers get the chance to meet with Middletown alumni to learn about their college experiences.

Lisa Parker, College and Career Center advisor, is available daily to meet with high-schoolers to discuss career and college opportunities and search strategies. To learn more about the services and programs the College and Career Center offers, or to make an appointment at the Center, call (845) 326-1611.

Need help navigating the college application process? Make an appointment with Mrs. Parker at the College and Career Center.



Going To College? College and Career Readiness

College admission counselors recommend all students who plan to apply to college add the following to their high school program:

- Additional courses in math, science, and/or foreign language in your senior year.
- Take at least one college or AP course.
- Participate in an extra-curricular sport or activity.
- Do some type of community service! The College Ambassadors Club will help you to fulfill community service requirements that many colleges require.
- Take the PSAT, SAT, and ACT.

For more information on college preparation, visit the College and Career Center.

Student Benchmarks to College and Career Readiness

The college entrance process has become very competitive. A basic high school diploma may not guarantee admittance. The College and Career Center, working closely with college admissions counselors, have established the following minimum benchmarks for students interested in going to college:

- Attendance of 95% or better.
- Course grades of 80% or higher.
- Regents exam grades of 80% or higher.
- Complete diploma requirements in 4 years.
- Participate in a career emphasis of coursework. i.e., Academy of Finance, Academy of Information Technology, Project Lead the Way, BOCES, Art, Music, or Business.

Choosing A Course Level

Most students are enrolled in Regents courses. Assignment to Advanced Placement (AP), Honors, and Core-level courses is based on abilities and skills evidenced by standardized tests, achievement in previous courses, and teacher/counselor recommendations. Student evaluation is a continuous process. Due to the differences of abilities, interests, and needs within individuals, students may be placed in different levels for different subject areas.

COLLEGE-LEVEL & AP COURSES

Weight of 1.10

College-level courses, prepared by the College Entrance Board and New York State colleges, are offered at Middletown High School. Successful completion of the course and appropriate exams entitle the student to receive credit for the course at the participating college. Students are required to pay varying fees to the participating college for tuition and text books.

Middletown High School also provides many opportunities for its students to challenge themselves through AP courses. Students can earn up to 23 college credits through the State University of New York (SUNY); college credit for AP classes is awarded at the discretion of individual colleges and universities. Additionally, Syracuse University Biology is worth eight credits, and students in the Project Lead The Way (PLTW) program can earn up to 15 credits through the Rochester Institute of Technology. Complete information on the AP program and college courses offered is available through the Guidance Department.

List of AP & College-level Courses:

AP Studio Art
AP Chemistry
AP Economics
AP Government & US Politics
AP Physics
AP Spanish
AP US History
College Accounting
College Algebra
College Biology I & II
College Calculus I & II
College English I & II
College Global Environment
College Statistics

PLTW Courses:

Intro to Engineering Design
Principles of Engineering
Digital Electronics
Civil Engineering and Architecture
Engineering Design and Development
Principles of Biomedical Sciences
Human Body Systems
Medical Interventions

HONORS COURSES

Weight of 1.05

Honors-level courses are designed to challenge students by providing enrichment through in-depth study. Emphasis is placed on the quality of achievement. Students in Honors-level courses will take Regents examinations whenever they are offered in that subject. In order to be eligible and remain in the Honors courses, students must also consistently meet the requirements of the Honors Course Guidelines. To view Guidelines, log on to www.middletowncityschools.org/mhs/Guidance/guidelines.htm or ask your guidance counselor for a copy.

List of Honors Courses:

Studio in Art Honors
Honors English 9–11
Honors Integrated Algebra
Honors Integrated Algebra II
Honors Integrated Geometry
Honors Trigonometry
Honors Pre-Calculus
Honors Calculus
Honors Biology
Honors Chemistry
Honors Global History 9 & 10
Honors Chorus
Honors Band

REGENTS COURSES

Weight of 1.00

Courses at this level meet the New York State Regents standards. Average to above average students successfully completing these courses are well prepared to pursue higher education.

CORE COURSES

Weight of 1.00

Core-level courses meet the needs of students who study the content included in the Regents-level courses, but who would benefit from smaller classes or more emphasis on specific skills.

ELECTIVES

Weight of 1.00

Students choosing elective courses should keep in mind that they are not guaranteed to get into the course as a 15 student minimum is needed for a course to be offered. It is suggested that backup elective courses are selected.

BOCES & AIS Programs/Clubs & Activities

Orange Ulster Board of Cooperative Educational Services (BOCES) offers a variety of services to school districts throughout Orange County, including:

The Career and Technical Education Center

The Career and Technical Education Center (CTEC) prepares high school students for skilled workforce careers. Most programs require two years to complete and are offered primarily on a half-day basis. The following CTEC courses are offered:

- Appearance/Cosmetology
- Business Computer
- Construction
- Culinary
- Education
- Engineering
- Environmental
- Health
- Security
- Transportation
- Visual Arts

New Visions

New Visions is a career immersion program for high-achieving seniors that allows students to take college courses while focusing on a chosen career field. Students have the opportunity to observe and interact with professional staff while participating in clinical rotations. Students must meet certain prerequisites and undergo an application process. For further info see your counselor. The following programs are offered:

- Education
- Engineering
- Law & Government
- Medical

Academic Intervention Services

Section 100.2 (ee) of the Regulations of the Commissioner of Education requires that students who fail any of the core state examinations required for high school graduation shall be provided with the appropriate Academic Intervention Services (AIS) in the following semester, to enable them to pass the test by the time they are otherwise qualified to graduate (www.emsc.nysed.gov/part100/pages/1002i.html). Academic Intervention Services are intended to assist students who are at risk of not achieving the state learning standards in English Language Arts (ELA), math, social studies, and/or science, or who are at risk of not gaining the knowledge and skills needed to meet or exceed designated performance levels on state assessments. AIS shall be made available to students with disabilities on the same basis as non-disabled students, provided that these services are in accordance with the student's IEP. The regulations also require that the parent or guardian of each such student shall be notified in writing, by the principal, of the AIS to be provided, the reason

the student needs such services, and the consequences of not achieving expected performance levels. Such notification must be provided in the language best understood by the parent or guardian.

Clubs & Activities

- Bible Club
- Chess Club
- College Ambassadors
- Cultural Exchange
- Drama Club
- Enlightenment
- Epilogue
- Expressions
- Friends of Rachel
- Future Business Leaders of America (FBLA)
- Get It Ready Techs (GIRT)
- Jazz Band
- Key Club
- Middletown Athletes Care (MAC)
- Marching Band
- Math Team
- MHS Newspaper
- Mock Trial
- National Art Honor Society (NAHS)
- National Honor Society (NHS)
- Outdoor Education
- Peer Mediation
- Pipers
- Pole Vaulting Club
- Sabor Latino Dance Club
- Scholastic Bowl
- Science Club
- Senior Enrichment
- Ski Club
- STEP Program
- Student Action League
- Students Against Destructive Decisions
- Student Council
- Student Government
- Varsity Club
- Youth-In-Government



Students who wish to play Division I or II sports on a college level must apply for eligibility with the National Collegiate Athletic Association (NCAA). In order to be eligible, students must meet all the requirements which include: graduation from high school, a specific earned Grade Point Average (GPA), as well as specific earned SAT scores in verbal and math, and the satisfactory completion of core course requirements. It should be noted that the NCAA will calculate a student's GPA based only on core courses and that this will be an unweighted GPA.

Parents and students are responsible for becoming familiar with these requirements and plan their high school education accordingly. Detailed information can be found in the Guidance Department or on the [NCAA Web site \(www.ncaa.org\)](http://www.ncaa.org).

NCAA course credits differ from New York State diploma requirements. Students applying to Division I & Division II colleges must see their guidance counselor to verify that their course selections meet NCAA requirements.

NCAA Core Courses

According to the NCAA a core course must be:

- An academic course in one of these areas: English, mathematics, science, social studies or foreign language.
- Four-year college preparatory.
- At or above the regular academic level.

Please note, the following Middletown High School classes are not approved NCAA core courses: Accounting, Java, C++, Financial Planning, Naval Science I, and Data Base Design.

NCAA Requirements

Division I:

- Complete 16 core courses
- 4 credits English
- 3 credits math
- 2 credits science
- 1 extra credit of math, science or English
- 2 credits social studies
- 4 credits of extra core courses
- Meet specific minimum GPA and SAT/ACT score based on a sliding scale

Division II:

- Complete 14 core courses
- 3 credits English
- 2 credits math
- 2 credits science
- 2 extra credits of math, science or English
- 2 credits social studies
- 3 credits of extra core courses
- Minimum GPA of 2.00
- Minimum score of 820 on the SAT or 68 on the ACT

NCAA Clearinghouse Procedures

If you are planning to play in a Division I or II sport in college, it's your responsibility to make sure the Clearinghouse has the documents it needs to certify you. High school students must:

- Review with your counselor the NCAA List of Approved Core Courses to make sure you are taking courses that are acceptable by the Clearinghouse.
- Complete the "Student Release Form" and send it to the Clearinghouse.
- Record your PIN number so you can check on your certification status.

You must also send the following info to the Clearinghouse:

- Your transcript.
- Standardized test scores (ACT and/or SAT) presented in one of two ways:
 1. On the official transcript from a standard high school.
 2. As reported directly from the testing agency to the Clearinghouse by entering 9999 as a college choice on either your SAT or ACT registration form. Please note, Student Score Reports and scores taken directly from a Student Score Report are not usable.
- Proof of high school graduation, including specific graduation date.

Exam & GPA Information

Advanced Placement (AP) Exams

These college-level tests are given in May and are open to all students; however, there are special classes for most students who take these tests. Test results are generally received by the school in July, and therefore are not computed into a student's final class average. When classes or individuals have received permission to take AP tests in lieu of regular school tests, the final class average is based on the work done in the course during the year. Depending on the respective college policy, students may receive college credit for successful completion of an AP course. Students enrolled in AP courses are required to take the AP exam. Please note, there is a fee to take these exams.

Regents Exams

All students enrolled in Regents classes take these tests, which are prepared by the New York State Department of Education (NYSED).

Local Exams

These tests are locally prepared examinations, which are approved by the curriculum supervisors in the respective department, and are used whenever Regents examinations are not specifically offered.

Grade Point Averages (GPAs)

In order to recognize the difficulty level of advanced courses, AP and college-level classes carry a weight of 1.10 and Honors courses are weighted 1.05. Therefore, if a student received an 85% in AP Physics, then a grade of 93.50 would be calculated into their weighted GPA.

Actual course grades appear unweighted on the report card and transcripts. However, both the unweighted and weighted GPA are shown. Weighted averages are used to determine class rank and honor roll.

A Note on Exam Requirements

Students are required to pass a local proficiency examination in a Language Other Than English (LOTE) by the end of eighth grade or earn one (1) credit of LOTE in high school. Students completing a five-unit sequence in career and technical education or the Arts are not required to complete the additional two units of the Language Other Than English requirements for the Regents Diploma with Advanced Designation. However, the student must still meet the requirements for the total number of units of credits.

Credits Required for Grade Promotion:

- Entering Grade 10: 5.5 credits
- Entering Grade 11: 11.0 credits
- Entering Grade 12: 16.5 credits

The instructional level of the course is noted on the report card, the permanent record card, and transcript. Requests for a change of level in any area must be done through Guidance.

Regents Exam Requirements

Advanced Regents Diploma:

65 or above on all Regents exams:

- ELA
- Math A & B or Integrated Algebra, Geometry, and Algebra/Trigonometry
- Global History
- US History
- Sciences (2)
- LOTE

Regents Diploma:

65 or above on all Regents exams:

- ELA
- Any one (1) Math
- Global History
- US History
- Science



Graduation Requirements

College and Career Readiness

To graduate from Middletown High School, students in the Classes of 2011-2014 must fulfill all course and examination requirements. In keeping with state and district standards, Middletown High School offers two possible diplomas: Regents Diploma, and the Advanced Regents Diploma.

Course Requirements

In order to graduate, high school students must earn the required number of credits in each subject area as shown below (for a total of 22 credits).

Diploma Requirements

Advanced Regents Diploma:

English	4
Social Studies	4
Math	3
Science	3
Art/Music	1
Health	0.5
Physical Ed.	2
Foreign Lang.	3
Electives	1.5

Sample Grade 9 Schedule:

- English 9
- Earth Science or Biology
- Art or Music
- Global History 9
- Foreign Language
- Lunch
- Math
- Physical Education
- Literacy

Regents Diploma:

English	4
Social Studies	4
Math	3
Science	3
Art/Music	1
Health	0.5
Physical Ed.	2
Foreign Lang.	1
Electives	3.5



Did you know?

84% of the Class of 2010 is currently attending two-year or four-year colleges or universities.

Join The College Ambassadors Club

The College Ambassadors provides a small group atmosphere where students are able to interact with one another and have additional support from professionals in order to obtain valuable information to facilitate the college process. The club also provides leadership and community service activities.

Goals:

1. To give students the opportunity to participate in leadership and community service activities.
2. To increase the number of four-year colleges that Middletown High School students are accepted to.
3. To prepare students to feel comfortable and prepared during the college application process.

Mission Statement:

College Ambassador
Options and Opportunities
Leadership
Learning
Educational
Goal Setting
Enthusiastic

Topics and Activities:

Some of the topics that will be covered include:

- Community Service
- Essay Workshop
- Transcript Workshop
- EOP/ HEOP Workshop
- College Visits (after school)
- Resume Workshop
- Interview Workshop
- Life after Middletown High School
- Ambassador Community Service
- Role Models for Underclassmen
- Professional Speakers

Graduation Checklist

Student Name: _____ Counselor: _____

	Grade 9	Grade 10	Grade 11	Grade 12	Additional
English-4 credits					
Social Studies-4 credits					
Math-3 credits					
Science-3 credits					
Second Language (1-3 credits)					
Health-½ credit					
Art/Music-1 credit					
Physical Ed.-2 credits					
Elective					
Elective					
Elective					
Total credits earned (22 required)					

Student is working towards a:

Regents Diploma

Regents Passed _____
 English Language Arts _____
 Global History _____
 Math _____
 Science _____
 US History _____

Regents Diploma with Advanced Designation

Regents Passed _____
 English Language Arts _____ Global History _____
 US History _____
 Math _____ Foreign Language _____
 Science _____

To earn the Advanced Designation, a student may substitute the three (3) credits of foreign language for one credit of foreign language plus a five (5) credit sequence in either career and technical education (includes business) or the Arts.

Five (5) credit sequence (in place of foreign language sequence):

Courses _____

Career Emphasis: _____

 Student Signature

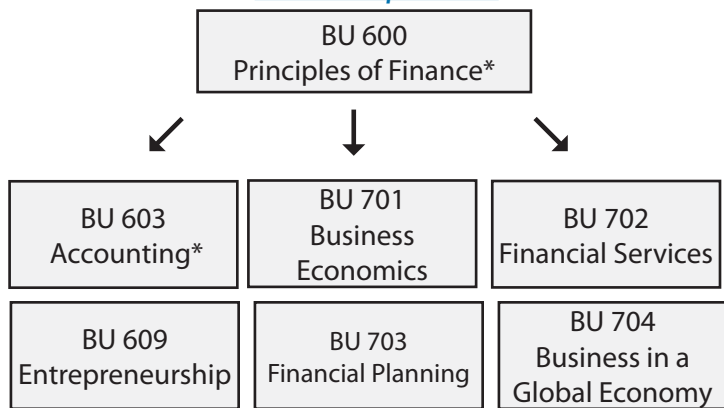
 Date

The Academies

ACADEMY OF FINANCE COURSES

The Academy of Finance (AOF) program is designed for students planning on future study or careers in the field of finance. Along with theme-based curriculum, students engage in various enrichment activities such as community service and field trips. Students enrolled in the AOF take specialized courses as part of their core curriculum and take part in a 6-8 week internship between the summer of their junior and senior years. The AOF has presented at the national level at the National Academy Foundation (NAF) Summer Institute on more than one occasion, and many MHS students have been the recipients of Citigroup and alumni scholarships over the past ten years. Acceptance into the AOF is dependent on an application process and good academic standing.

AOF Sequence



* Required Courses

Academy of Finance students will need 2 required courses, plus a minimum of 2 more finance electives.

BU 600 – PRINCIPLES OF FINANCE*

1 credit
Full Year

Grade: 10
Exam: Local

Prerequisites: Member of AOF

This is the first course students take for the Academy of Finance sequence and introduces students to the financial world. Students develop financial literacy as they learn about the function of finance in society. They study income and wealth, examine financial institutions, learn how businesses raise capital, and study key investment-related terms and concepts. They also research how innovations have changed the financial services field. Finally, students explore careers that exist in finance today.

BU 603 – PRINCIPLES OF ACCOUNTING

1 credit
Full Year

Grade: 11
Exam: Local

Prerequisites: Member of AOF

This is a one-year course designed not only for vocational purposes upon graduation, but also for those interested in a

college major in business. The course introduces students to the double entry system and covers simplified transactions that are most often encountered in business today. Various journals are introduced using a spiral method, which covers one complete bookkeeping cycle and then begins another with the introduction of new bookkeeping procedures. These procedures prepare the student with entry knowledge of income, losses, expenses, and procedures necessary to understand how large and small businesses, and corporations operate, and how to make important decisions for a business based on accounting knowledge. Electronic spreadsheets (Microsoft Excel) are used to reinforce the various journals, worksheets, financial statements, and General Ledger Forms GL-1 and GL-2. **Thinking of going to college? You may want to consider BU 610 College Accounting. (pg. 19)**

BU 609 – ENTREPRENEURSHIP

½ credit
1 Semester

Grades: 11-12
Exam: Local

Prerequisites: Member of AOF

Entrepreneurship provides students with an understanding of the critical role played by entrepreneurs in the national and global economy. Students not only learn skills necessary to become entrepreneurs, but also the attitudes, characteristics, and techniques found in successful entrepreneurs that students need to succeed. Building on the concepts that were introduced in Principles of Finance, the entrepreneurship curriculum approaches student learning experientially by encouraging students to evaluate, develop, and work with the business ideas they already have or those they conceive during the course. Students explore the steps necessary to start a business, including financing, forms of organization, and business plans. They learn about the operational issues that new businesses face, such as taxation, licensing, and the financial risks of starting a business. Students examine the ethical issues and develop a framework for managing them. Finally, students identify the risks, returns, and other aspects of entrepreneurship as a potential career. Students are expected to complete two projects.

BU 701 – BUSINESS ECONOMICS

½ credit
1 Semester

Grade: 11
Exam: Local

Prerequisites: Member of AOF

This is a one-semester course covering macro and microeconomics, which provides an understanding of how our market economy functions in a global setting. It provides students with a survey of economic concepts, including all of the 22 basic principles recommended by the Joint Council on Economics Education. In addition, a unit on capital markets acquaints students with the role that various markets and securities play in our overall economic framework.

The Academies

BU 702 – FINANCIAL SERVICES

½ credit
1 Semester
Grade: 11
Exam: Local

Prerequisites: Member of AOF

This is a one-semester course presenting a survey of the principles and practices of banking and credit in the United States. Major functions of banking, the history of banking, and procedures of the Federal Reserve System are presented. Students are given simulation kits to learn how to manage checking accounts. Credit cards, credit reports, and loans are also discussed.

BU 703 – FINANCIAL PLANNING**

½ credit
Spring Semester
Grade: 12
Exam: Local

Prerequisites: Senior member of AOF

This course introduces students to the financial planning process and the components of a comprehensive financial plan. Students will learn how to prepare a financial plan, which includes saving, investing, borrowing, risk management (insurance), retirement, and estate planning.

BU 704 – BUSINESS IN A GLOBAL ECONOMY

½ credit
1 Semester
Grade: 12
Exam: Local

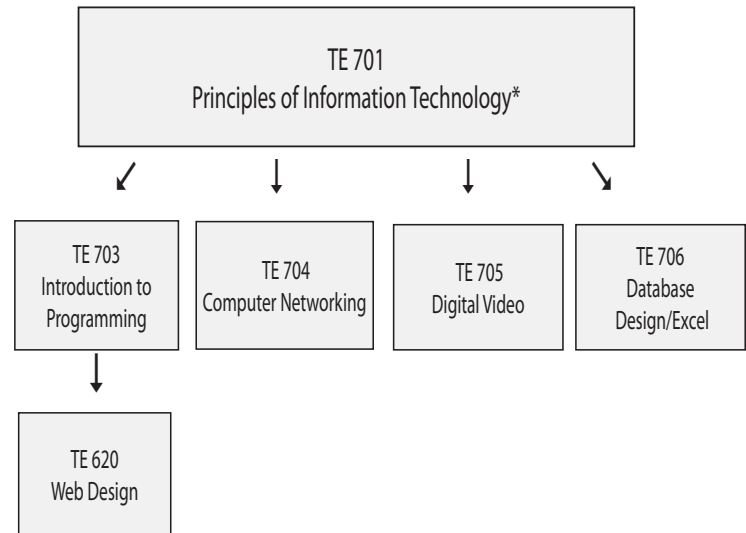
Prerequisites: Senior member of AOF

This is a one-semester course exploring major components of the international financial system. It includes the study of foreign trade, the international monetary system, foreign exchange rates, foreign exchange markets, international financial markets, international banking, and the multinational corporation.

ACADEMY OF INFORMATION TECHNOLOGY COURSES

The Academy of Information Technology (AOIT) focuses on the growing technology industry. Courses cover a broad range of computer and technological concepts. Thanks to a competitive curriculum and partnership between business leaders and educators in the Middletown community, the AOIT prepares high school students for post-secondary education and successful careers in Information Technology (IT). The AOIT is a three-year program, beginning in sophomore year, which combines academics with hands-on work experience to help develop thinking and problem-solving skills that are critical to post-secondary education and career success. Students take specific IT courses and take part in a 6-8 week internship between the summer of their junior and senior years. Acceptance into the AOIT is dependent on an application process and good academic standing.

AOIT Sequence



*Required for sequence
Plus a minimum of 3 more AOIT credits

TE 620 – WEB DESIGN

½ credit
1 Semester
Grade: 10
Exam: Local

Prerequisites: TE 703 Introduction to Programming

A hands-on introduction to designing, building, and launching a Web site. Students learn about Web development including HTML, coding, usability, design, and Web-based publishing tools. Students determine business requirements, gather Web content, Web pages, conduct usability testing, launch their Web sites, and plan how to attract traffic.

TE 701 – PRINCIPLES OF INFORMATION TECHNOLOGY

½ credit
1 Semester
Grade: 10
Exam: Local

Prerequisites: Acceptance into AOIT

This is the first course students take in the AOIT program. It provides an overview of Information Technology (IT) and introduces students to the basics of hardware and software. Students examine hardware components including peripherals, connectors, and memory. Students explore common operating systems, software applications, and programming languages. Students learn about types of networks and network topology, and set up an e-mail client/server & e-mail connection.

The Academies

TE 703 – INTRODUCTION TO PROGRAMMING

½ credit Grades: 10
1 Semester Exam: Local

Prerequisites: Member of AOIT

Introduction to Programming uses Python as a basis for learning general programming skills. Students learn programming principles by comparing Python to other programming languages. Students will use models as a way to quickly solve new problems using knowledge and techniques already learned. Students complete over 60 programs in this course, including both text and graphics/animation programs. In addition to programming, students learn program design, documentation, formal debugging, and testing. Finally, students can examine career opportunities in programming.

TE 704 – COMPUTER NETWORKING

½ credit Grade: 11
1 Semester Exam: Local

Prerequisites: Member of AOIT

Students learn terminology, architecture, implementing a computer set-up, testing, O/S setup, peripheral installation, system management, and introduction to digital networking, cables, connections, components, computer communication, and network diagrams.

TE 705 – DIGITAL VIDEO PRODUCTION

½ credit Grade: 12
1 Semester Exam: Local

Prerequisites: Member of AOIT

Students gain an understanding of digital media. These skills include: audio, graphics, text, and animation tools. Concepts such as color and presentation are also addressed.

TE 706 – DATABASE DESIGN/EXCEL

½ credit Grade: 12
1 Semester Exam: Local

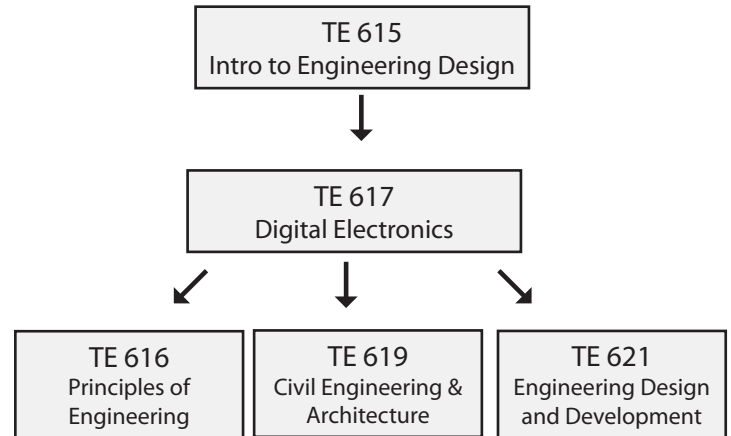
Prerequisites: Member of AOIT

Students are introduced to the basic concepts of relational database engines and their respective tools. Database concepts of tables, rows, indexes, constraints, triggers, SQL syntax, storage, and data relationships are among the concepts presented.

PROJECT LEAD THE WAY COURSES-ENGINEERING

Project Lead The Way (PLTW) is a nationally recognized organization designed to introduce a pre-engineering program to high school students. This four-year sequence of courses, taken in conjunction with traditional mathematics and science classes, will prepare students to pursue a formal education and career in the field of engineering. Students will have the opportunity to receive transferable college credit from Rochester Institute of Technology.

PLTW Engineering Sequence



TE – 615 INTRODUCTION TO ENGINEERING DESIGN

1 credit Grade: All
Full Year Exam: Local

Prerequisites: None

This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed, and communicated using solid modeling computer designing software. This course has a weight of 1.10 and is worth four quarter credits through Rochester Institute of Technology.

TE 616 – PRINCIPLES OF ENGINEERING

1 Credit Grades: 10-12
Full Year Exam: Local

Prerequisites: Introduction to Engineering Design

This course will help students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes will help students learn how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit people. The course also includes concerns about social and political consequences of technological change. This course has a weight of 1.10 and is worth four quarter credits through Rochester Institute of Technology.

TE 617 – DIGITAL ELECTRONICS

1 Credit Grades: 10-12
Full Year Exam: Local

Prerequisites: Introduction to Engineering Design

This course in applied logic encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices. This course has a weight of 1.10 and is worth four quarter credits through Rochester Institute of Technology.

The Academies

TE 619 – CIVIL ENGINEERING & ARCHITECTURE

1 credit Grades: 11-12
Full Year Exam: Local

Prerequisites: Introduction to Engineering and Design/ Principles of Engineering/Digital Electronics

This course provides an overview of the fields of civil engineering and architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state-of-the-art software to solve real-world problems and communicate solutions to hands-on projects and activities.

This course covers topics such as: the roles of civil engineers and architects, project planning, site planning, building design, and project documentation and presentation. This course has a weight of 1.10 and is worth four college credits through Rochester Institute of Technology.

TE 621– ENGINEERING DESIGN AND DEVELOPMENT*

1 credit Grades: 12
Full Year Exam: Local

Prerequisites: Introduction to Engineering and Design/ Principles of Engineering

This is an engineering research course in which students will work in teams to research, design, test, and construct a solution to an open-ended engineering problem. The product development life cycle and a design process are used to guide and help the team to reach a solution to the problem. The team presents and defends their solution to a panel of outside reviewers at the conclusion of the course. The EDD course allows students to apply all the skills and knowledge learned in previous Project Lead the Way courses. The use of 3D design software helps students design solutions to the problem their team has chosen. This course also engages students in time management and teamwork skills, a valuable set for students in the future.

PROJECT LEAD THE WAY COURSES-BIOMEDICAL

Project Lead the Way (PLTW) Biomedical Sciences is a three-year program designed to bring students closer to the possibilities of the medical field. Courses are integrated into students' core curriculum and are designed to expand upon college math and science programs. The program uses a combination of activity-based, project-based, and problem-based (APPB) learning styles to engage students. APPB learning doesn't just create an exciting environment where the possibilities of the medical field come to life, it also teaches students to: solve problems, conduct research, analyze data, learn outside the classroom, understand real-world problems, participate as part of a team, and lead teams. The program is a science technology program which consists of a series of three courses, including: Principles of Biomedical Sciences, Human Body Systems, and Medical Interventions. The program is open to

sophomores who are registered for Middletown's Regents Biology course or have already taken Regents Biology.

SC 210 - PLTW - BIOMEDICAL SCIENCES

1 credit Grade: 10
Full Year Exam: Local

Prerequisites: Living Environment

This course provides an introduction to the biomedical sciences through exciting hands-on projects and problems. Student work involves the study of human medicine, research processes, and an introduction to bioinformatics. Students investigate the human body systems and various health conditions including: heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. A theme through the course is to determine the factors responsible for the death of a fictional person. After determining the factors responsible for death, the students investigate lifestyle choices and medical treatments that might have prolonged the person's life. Key biological concepts, including: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease, are embedded in the curriculum. Engineering principles, including: the design process, feedback loops, fluid dynamics, and the relationship of structure to function, are incorporated in the curriculum where appropriate. The course is designed to provide an overview of all the courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in subsequent courses.

SC 211 - PLTW - HUMAN BODY SYSTEMS

1 credit Grades: 10-11
Full Year Exam: Local

Prerequisites: Principles of Biomedical Science

Students examine the processes, structures, and interactions of the human body systems to learn how they work together to maintain homeostasis (internal balance) and good health. Using real-world cases, students take the role of biomedical professionals and work together to solve medical mysteries. Hands-on projects include: designing experiments, investigating the structures and functions of body systems, and using data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation. Important concepts covered in the course are: communication, transport of substances, locomotion, metabolic processes, defense, and protection.

Academies/Art

SC 212 - PLTW MEDICAL INTERVENTIONS*

1 credit
Full Year

Grades: 11-12
Exam: Local

Prerequisites: Principles of Biomedical Science and Human Body Systems

Students investigate the variety of interventions involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. The course is a “how-to manual” for maintaining overall health and homeostasis in the body as students explore how to prevent and fight infection, how to screen and evaluate the code in human DNA, how to prevent, diagnose and treat cancer, and how to prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Each family case scenario introduces multiple types of interventions and reinforces concepts learned in the previous two courses, as well as presenting new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. These interventions are showcased across the generations of the family and provide a look at the past, present, and future of biomedical science. Lifestyle choices and preventative measures are emphasized throughout the course, as well as the important roles scientific thinking and engineering design play in the development of intervention of the future.

ART

Students with an interest in art can choose one of two majors within the Art Department. A major in Studio Art follows the traditional concepts of the art field, while a major in Media Art focuses on the uses of modern technology in a creative manner. Students must begin with a foundations course then continue on with three to five credits of electives that concentrate on the fundamental concepts of the major. For detailed information, see your guidance counselor.

AR 101 – STUDIO IN ART

1 credit
Full Year

Grade: All
Exam: Local

Prerequisites: None

This course will meet the New York State mandated requirements for students who need to earn one credit in art or music for graduation (see AR-102 for another academic option). The purpose of this course is to develop a firm understanding of the elements of art and the principles of design. Studio in Art is a challenge academically and creatively. Students will experiment with a variety of materials and methods while complet-

ing assignments. Hands-on projects will highlight those skills, techniques, and concerns which are essential for quality work in the visual arts. Successful completion is required for Fine Arts credit.

AR 102 – STUDIO IN ART HONORS

1 credit
Full Year

Grades: All
Exam: Local

Prerequisites: Meet Honors Policy guidelines

Studio in Art Honors provides an opportunity for highly motivated students to grow artistically by exploring the course material in greater depth. In addition to the regular projects and assignments, students will complete additional assignments to receive a weighted credit of 1.05.

AR 104 – FOUNDATION IN MEDIA ARTS

1 credit
Full Year

Grades: All
Exam: Local

Prerequisites: None

This course meets the New York State mandated requirements for students who need to earn one credit in art or music for graduation. The focus of this course will be to provide the beginner art student with a solid foundation in the visual arts through a variety of technologies and media, including: drawing, sculpting, painting, collage, computer graphics, digital photography, and digital video/animation. Students will have opportunities to express themselves while learning various art techniques, technologies, and media to enhance their understanding of the elements of art and principles of design. Art history and vocabulary will also play an important role in the development of students’ knowledge. Students will also explore art from various cultures and time eras to assist them in their understanding.

AR 501 – AP STUDIO IN ART

1 credit
Full Year

Grades: 11-12
Exam: AP

Prerequisites: Studio in Art, Drawing and Painting and Teacher Recommendation

Students will produce portfolio quality works in a variety of mediums showing strength in a particular concentration. Students may work in their area of expertise such as drawing, painting, computer graphics, or photography. Upon successful completion of the course, students will have a comprehensive portfolio ready for evaluation by the AP College Board and college admissions officers. A sketchbook and portfolio are required materials. An AP exam is required to complete the course and there is a fee to take the exam. This course has a weight of 1.10.

[AR 601 – DRAWING AND PAINTING](#)

1 credit
Full Year
Grades: 10-12
Exam: Local

Prerequisite: One credit in Art

This course is recommended for students who wish to continue their study of the visual arts through drawing and painting. Students will have the opportunity to explore and use a wide variety of materials and tools, develop an interest, respect, and responsibility for the use and care of materials, and build upon their creative and technical abilities in drawing and painting mediums. Works of art through history will be introduced and analyzed as part of the course.

[AR 602 – ADVANCED DRAWING & PAINTING](#)

1 credit
Full Year
Grades: 11-12
Exam: Local

Prerequisite: Drawing and Painting

Students will explore advanced concepts of drawing, painting, and design with an eye toward portfolio development. Greater production and self-motivation will be expected. Historical influences will be explored and utilized, and students will explore a broad variety of media and techniques. A major in Studio Art follows the traditional concepts of the art field, while a major in Media Art focuses on the uses of modern technology in a creative manner. Students must begin with a foundations course then continue on with three to five credits of electives that concentrate on the fundamental concepts of the major. For detailed information, see your guidance counselor.

[AR – 603 COMPUTER GRAPHICS](#)

1 credit
Full Year
Grades: 11-12
Exam: Local

Prerequisites: Foundations in Media Arts

Students taking this course will realize the potential of the computer to create and manipulate visual imagery with the blending of traditional artwork and digital manipulatives. Building skills students can take with them into the work world, they will create artwork relevant to the publishing field as well as the Arts. Programs such as Adobe Photoshop, Illustrator, and InDesign will be introduced, and while no prior knowledge for these programs is required, an aptitude for computers is helpful.

[AR 604 – ADVANCED COMPUTER GRAPHICS](#)

1 credit
Full Year
Grades: 11-12
Exam: Local

Prerequisites: Computer Graphics

Building on skills learned in Computer Graphics, students will bring their traditional and digital design knowledge to an advanced level and will continue to refine their skills in Adobe Photoshop, Illustrator, and InDesign, as well as examine the

basics of animation through programs such as Image Ready and QuickTime. Students who are interested in a graphic related major should take this course. Each student will leave the course with a digital portfolio.

[AR 605 – CARTOONING](#)

½ credit
1 Semester
Grades: 10-12
Exam: Local

Prerequisite: One credit in Art

Studio in Cartooning is designed for students interested in learning about the art of sequential imagery. Students will expand upon previous knowledge in order to use the elements of art and principles of design to create compositions and designs of various sequential art projects. Projects will cover genres such as: caricature, political and gag cartoons, comic strips, and the increasingly popular comic books/graphic novels. Students will be exposed to various historical and cultural interpretations of cartooning.

[AR 606 – ILLUSTRATION](#)

½ credit
1 Semester
Grades: 10-12
Exam: Local

Prerequisite: One credit in Art

Studio in Illustration is designed for students interested in graphic communication through the use of pictorial design. Students will expand upon knowledge gained in prior art courses, with challenging designs and compositions which require students to utilize and manipulate the elements of art and principles of design. A variety of media and techniques will be explored throughout the completion of these projects. This course will provide students the task to creatively utilize their problem-solving skills to meet specific project requirements and criteria.

[AR 607 – FASHION DESIGN](#)

1 credit
2 Semesters
Grades: 10-12
Exam: Local

Prerequisite: One credit in Art

This course focuses on drawing the female fashion figure and creating design collections on paper. Various materials will be used, including: ink, professional markers, professional paper, and designs rendered with the computer. Projects will focus on the different categories of fashion such as evening wear, swimwear, tailoring, costume design, and sportswear, culminating in a portfolio of work.

AR 608 – CREATIVE CRAFTS

1 credit
Full Year
Grades: 10-12
Exam: Local

Prerequisites: None

Creative crafts involves a variety of projects which relate to different cultures and time periods. Students will be expected to keep a notebook for sketches, ideas, lectures, and demonstrations. Students will develop a firm understanding of the elements of art and the principles of design through both two-dimensional and three-dimensional processes and projects. This course meets the New York State mandated requirements for students who need to earn one credit in art or music for graduation.

AR – 609 CERAMICS

½ credit
1 Semester
Grades: 10-12
Exam: Local

Prerequisites: One credit in Art

Students will examine the three-dimensional art form in depth while learning how to work with clay. A variety of approaches and techniques will be covered such as hand building and wheel throwing. Students will use their skills to create functional, everyday objects as well as pieces of art. Students will also be exposed to specific artists and movements throughout history.

AR – 610 SCULPTURE

½ credit
1 Semester
Grades: 10-12
Exam: Local

Prerequisites: One credit in Art

Student will examine the three-dimensional art form in depth while learning how to work with a variety of materials, including: wire, stained glass, found materials, and clay. A variety of approaches and techniques will be covered as students create functional objects as well as pieces of art. Students will be exposed to specific artists and movements throughout the history of sculpture.

AR 611 – PORTFOLIO PRESENTATION

1 credit
Full Year
Grades: 11-12
Exam: Local

Prerequisites: Studio Art, Drawing and Painting, one Art elective, and Teacher Permission

This course is designed for the art student that plans on applying to art college or would like to have a professional portfolio to show galleries or potential employers. The course will assist students in preparing a quality portfolio that showcases their talent and ability to present their work in a clearly communicated fashion. It will examine requirements from particular colleges for admissions, as well as what galleries and employers are looking for in a portfolio.

TE 604 – STUDIO IN PHOTOGRAPHY I

½ credit
1 Semester
Grades: 10-12
Exam: Local

Prerequisites: None

This class explores both the technical and the artistic side of digital photography. Students will learn how to maintain and operate a digital single lens reflex camera and do basic digital imaging processing by using Photoshop CS2 Software. Class time will include: lessons, demonstrations, group, and individual critiques. Class fieldwork and individual assignments outside of class are both required for this course. This course is designed for responsible and motivated students who have a desire to see and create better photographic images. Cameras will be loaned to those students who, along with their parents, have signed and agreed to the provisions stated in the “Camera Loan Agreement Form.” All other students must have their own digital camera to participate in this course. A notebook and three-ringed binder are both required for this class. This course may fulfill an elective for Art or Technology. See your guidance counselor for details.

TE 605 – STUDIO IN PHOTOGRAPHY II

½ credit
1 Semester
Grades: 10-12
Exam: Local

Prerequisites: Successful completion of Studio in Photography I

This class will build on the fundamental skills that students mastered in Photography I. Along with the emphasis on photographic design and composition, students will learn and focus upon “tuning up” their images for presentation by utilizing Photoshop CS2 software. The varied and numerous assignments for this class will challenge students both artistically and scholastically. This course may fulfill an elective for Art or Technology. See your guidance counselor for details.

AR 612 – JEWELRY MAKING

1 credit
2 Semesters
Grades: 10-12
Exam: Local

Prerequisites: Studio in Art or Foundations in Media Arts

Students will learn the basics of traditional and non-traditional jewelry making through the exploration of a variety of materials, including: various metals, polymer clays, and metal foils. Students will be exposed to a range of metal working processes and techniques, including: filing, sawing, cutting, repousse, and cold connections. Original designs will be created through the examination of historical and cultural connections in jewelry making. An emphasis on quality production and creative expression will be highly stressed throughout the course.

BUSINESS & TECHNOLOGY

BU 601 – MICROSOFT OFFICE SKILLS

½ credit

1 Semester

Prerequisites: None

Grades: All

Exam: Local

Students will learn proper keyboarding ergonomics (touch typing) to avoid future repetitive stress injuries that account for the most frequent work site injuries. Microsoft shortcuts are introduced as well as note organization, college note taking, and business documents, including: business letters, personal letters, memorandums, reports, outlines, and tables. In addition, students will learn horizontal and vertical centering. Realistic office simulations are used as a reinforcement of the most popular business documents. Upon completion of the class, a final exam will measure overall student achievement. This course has been updated for the 21st century college student.

BU 602 – ADVANCED MICROSOFT OFFICE

½ credit

1 Semester

Prerequisites: Microsoft Office Skills

This class builds on prior experience of Microsoft Word and continues with other programs associated with Microsoft Office Suite, such as: Microsoft's Access (database), Excel (spreadsheet), PowerPoint (multimedia presentation), and Publisher (desktop publishing). This class also explores the function keys and the shortcuts associated with Microsoft Office Suite. This course will help students be well-prepared to complete classroom assignments, college assignments, and careers in office technology. Upon completion of the class, a final exam will measure overall student achievement.

Grades: All

Exam: Local

BU 603 – ACCOUNTING

See page 12

BU 605 – BUSINESS LAW

1 credit

Full Year

Prerequisites: None

This is a full-year course with an emphasis on the individual as she or he encounters business law in her or his personal, family, and occupational life. The study of business law is one of the most interesting subjects in school. The problems studied reflect true situations where business law has a major impact on the lives of young people, as well as on adults and on business firms—large and small. The learning materials will help students to achieve an understanding of legal principles, which will be useful throughout their lives. From the study of business law, students should gain a genuine respect and intelligent application for a segment of the law that affects them both at

home and at work. Modules covered include: the individual and the legal environment, the legal covenant, personal property, real property, consumer protection, criminal law, paying for goods and services, family protection, employment, agency relationships, business ownership, and law for minors. This course is NCAA Clearinghouse approved.

BU 608 – BUSINESS COMMUNICATION SKILLS

½ credit

1 Semester

Prerequisites: Microsoft Office Skills helpful

This one-semester course will help students develop written and oral communication skills needed in the business world. Topics include: telecommunications, phone and Internet etiquette, business ethics, filing, public speaking, and creating presentations. Students will also complete an interviewing and resume portfolio.

Grades: 11–12

Exam: Local

BU 609 – ENTREPRENEURSHIP

See page 12

BU 610 – COLLEGE ACCOUNTING

4 college credits (Syracuse University)

Full Year

Cost: \$176-\$440 payable to Syracuse University

Note: Tuition cost is the student's responsibility

Prerequisites: Recommendation of a Business Teacher, Accounting is helpful, but not mandatory

This course introduces financial accounting concepts that aid entrepreneurs, managers, investors, and creditors in planning, operating, and analyzing a business. Emphasis in this course is on the interpretation of financial statements. Students are required to complete a project that demonstrates their ability to analyze the financial statements of publicly traded companies and make an informed investment decision. Students will learn about the basic accounting information system, read and understand a set of basic financial statements, current issues, the impact of these issues on shareholders, and current career opportunities available to accounting majors.

Grades: 11 & 12

Exam: Local

Business & Technology

[BU 612 – ADVERTISING AND MARKETING](#)

½ credit
1 Semester

Grades: 11–12
Exam: Local

Prerequisites: None

This course introduces students to the basic concepts behind marketing and advertising techniques and principles. An introduction on how to sell advertising, properly display signs, coordinate events, and promotions in the industry will be presented. Students will be able to learn about and develop marketing concepts, public relations skills, and be exposed to the various career opportunities available in these fields. Students will be given several case studies and products to market and analyze. This is an excellent opportunity for students considering a college major in this field.

[BU 701 – BUSINESS ECONOMICS](#)

See page 12

[BU 702 – FINANCIAL SERVICES](#)

See page 13

[BU 703 – FINANCIAL PLANNING](#)

See page 13

[BU 704 – BUSINESS IN A GLOBAL ECONOMY](#)

See page 13

[TE 601 – VIDEO PRODUCTION](#)

½ credit
1 Semester

Grades: All
Exam: Local

Prerequisites: None

Video Production is a hands-on, project driven course. It is designed to spark the imagination and creative potential of its students. The required projects, activities, and lessons will introduce students to some of the processes commonly found within the communication industry. Lessons, demonstrations, and required projects are completed and presented in the school's computer lab. Course content includes: scripting, storyboards, video taping, digital editing, adding sound and music, title pages, and presentations.

[TE 602 – GRAPHIC DESIGN](#)

½ credit
1 Semester

Grades: All
Exam: Local

Prerequisites: None

This course is an introductory and project-driven course which is designed to explore the print media industry. The required projects, activities, and lessons will introduce the students to some of the processes commonly found in desktop publishing. Professional documents can be created with desktop publishing software. This course will explore the following areas: typography, graphic design, computer graphics, and desktop publishing.

[TE 603 – DESIGN & DRAWING FOR PRODUCTION](#)

1 credit
Full Year

Grades: All
Exam: Local

Prerequisites: None

This course is a computer-based mechanical drawing course. It uses Autodesk Inventor 11 to create basic sketching techniques, solid modeling techniques, and the application of advanced 3-D drawing techniques. This computer course takes a hands-on, exercise intensive approach to Parametric Modeling techniques and concepts. A series of drawings, from basic to advanced, will lead the student to an extensive understanding of solid and parametric modeling techniques. Design problems allow students to apply concepts and techniques while creatively solving written design challenges. This course is intended to help students explore the exciting field of computer aided engineering. This course satisfies one Art credit.

[TE 604 – STUDIO IN PHOTOGRAPHY I](#)

See page 18

[TE 605 – STUDIO IN PHOTOGRAPHY II](#)

See page 18

[TE – 615 - INTRO TO ENGINEERING DESIGN](#)

See page 14 For PLTW Students Only

[TE 616 – PRINCIPLES OF ENGINEERING](#)

See page 14 For PLTW Students Only

[TE 617 – DIGITAL ELECTRONICS](#)

See page 14 For PLTW Students Only

[TE 619 – CIVIL ENGINEERING & ARCHITECTURE](#)

See page 15 For PLTW Students Only

[TE 620 – WEB DESIGN](#)

See page 13 For AOIT Students Only

[TE 621 – ENGINEERING DESIGN AND DEVELOPMENT*](#)

See page 15 For PLTW Students Only

[TE 701 – PRINCIPLES OF INFORMATION TECHNOLOGY](#)

See page 13 For AOIT Students Only

[TE 703 – INTRODUCTION TO PROGRAMMING](#)

See page 14 For AOIT Students Only

[TE 704 – COMPUTER NETWORKING](#)

See page 14 For AOIT Students Only

[TE 705 – DIGITAL VIDEO PRODUCTION](#)

See page 14 For AOIT Students Only

[TE 706 – DATABASE DESIGN/EXCEL](#)

See page 14 For AOIT Students Only

ENGLISH

[EN 101 – ENGLISH 9 HONORS](#)

1 credit
Full Year

Grade: 9
Exam: Local

Prerequisites: Must meet Honors Course Guidelines

This interdisciplinary course is based upon a humanities approach. Grade 9 English, Literacy, and Global classes are linked so that students are engaged in rigorous, project-based instruction. The emphasis of the 9th grade English program is the acquisition and application of skills in reading, composition, speaking, listening, language, and literatures. Composition objectives include: mastery of the basic elements of literary genres, such as the short story, novel, poetry, and drama. Vocabulary development, enrichment, and independent study are integral parts of the program. Students must maintain a minimal average of B. This course has a weighted credit of 1.05.

[EN 102 – ENGLISH 9](#)

[EN 103 – ENGLISH 9](#)

[EN 104 – ENGLISH 9](#)

1 credit
Full Year

Grade: 9
Exam: Local

Prerequisites: None

These interdisciplinary courses are based upon a humanities approach. Grade 9 English, Literacy, and Global classes are linked so that students are engaged in rigorous, project-based instruction. Courses emphasize comprehension and communication through listening, reading, writing, and speaking. Assigned literature in various genres helps students understand and identify literary essays with an emphasis on structure. Biographies are analyzed within various genres. New York State writing rubrics guide student writing. Curriculum parallels and prepares students for the New York State Comprehensive English Exam. For students needing more emphasis on the material, there are two core courses. EN 103 has an additional lab period, while EN 104 is two full periods of instruction.

[EN 105 – LITERACY](#)

1 credit
Full Year

Grades: 9
Exam: Local

Prerequisites: None

This interdisciplinary course is based upon a humanities approach. Grade 9 English, Literacy, and Global classes are linked so that students are engaged in rigorous, project-based instruction. Literacy is required for all ninth-graders. The course content focuses on teaching students the skills and strategies to become critical readers and writers while extending one's knowledge. The reading, writing, listening and speaking skills and strategies found in the New York State standards across

the four content areas are the focus of specific elements of the reading and writing process. Students are provided with multiple learning opportunities in a variety of informational texts to question, clarify, evaluate, infer, and synthesize ideas. The goal of instruction is to support students as they develop into independent readers, writers, listeners, and speakers who communicate effectively for various purposes.

[EN 201 – ENGLISH 10 HONORS](#)

1 credit
Full Year

Grade: 10
Exam: Local

Prerequisites: Must meet Honors Course Guidelines

This course is designed to help students develop higher level critical thinking skills through selections such as Shakespeare's *Julius Caesar* and Homer's *The Odyssey*. To facilitate these skills, students will study and understand classic literature in genres that include: the novel, drama, short story, exposition, biography, and poetry. Students will be expected to express their literary understanding by writing a short story, discussing literature in groups, writing essays, and performing literary oral presentations. Additionally, students will study vocabulary through Greek and Latin roots and in context for weekly quizzes. Students must maintain a minimal average of B. Quarterly Exams will conclude the marking periods and the course carries a weighted credit of 1.05.

[EN 202 – ENGLISH 10](#)

[EN 203 – ENGLISH 10](#)

1 credit
Full Year

Grade: 10
Exam: Local

Prerequisites: English 9

This course emphasizes comprehension and communication through listening, reading, writing, and speaking. Assigned literature in various genres helps students understand the ways in which literary elements, such as characterization, conflict, title, setting, and plot, are tools for analysis and comprehension. Students learn to express their analysis in oral presentations and literary, personal, and persuasive essays. The library is used to facilitate the conventions of Modern Language Arts (MLA) approaches to documentation of references and research. New York State scoring rubrics guide student writing and the curriculum is designed to provide an awareness and appreciation of literature, as well as parallel and prepare students for the eleventh grade English Regents Exam.

[EN 301 – ENGLISH 11 HONORS](#)

1 credit
Full Year

Grade: 11
Exam: Regents

Prerequisites: Must meet Honors Course Guidelines

This survey course in American Literature emphasizes a broad sampling of literary genres, including: the short story, the novel, drama, and poetry. In composition, the emphasis is placed on developing the more mature elements of style. Also included

is a unit based on Aristotle's concept of tragedy through the study of Greek, Shakespearean and/or contemporary tragedies. Advanced work in vocabulary, listening, and speaking skills is also provided. Greater self-direction on the part of the student is expected. In addition, students are expected to write a term paper that explores the influence of American culture on American authors and their literature. Students will take the Comprehensive English Regents Exam by the end of the year. Students must maintain a minimal average of B. This course has a weighted credit of 1.05.

EN 302 – ENGLISH 11

EN 303 – ENGLISH 11

1 credit

Full Year

Grade: 11

Exam: Regents

Prerequisites: English 10

This course emphasizes comprehension and communication through listening, reading, writing, and speaking. Assigned American Literature in various genres helps students understand the ways in which literary elements, such as characterization, conflict, title, setting, and plot, are tools for analysis in oral presentations and literary, personal, and persuasive essays. The library is used to facilitate the conventions of MLA approaches to documentation of references and research. New York State scoring rubrics guide student writing and the curriculum is designed to provide an awareness and appreciation of America through its literature. As the eleventh grade English Comprehensive Regents Exam is administered during this year, review and exam preparation are emphasized.

EN 452 – ENGLISH LANGUAGE ARTS - AIS

No credit

1 Semester

Grades: 9

Exam: Local

Prerequisites: None

This is a state-mandated lab for any student who received a level one or two on the eighth grade ELA assessment. This is a non-credit bearing remedial course that will reinforce reading, writing, listening, and speaking skills. This class meets every other day.

EN 453 – ENGLISH LANGUAGE ARTS - AIS

No credit

1 Semester

Grades: 10 & 11

Exam: Local

Prerequisites: None

This is a state-mandated lab for any student who received a level one or two on the eighth grade ELA assessment. This is a non-credit bearing remedial course that will reinforce reading, writing, listening, and speaking skills. This class will meet every other day.

EN 501 – ENGLISH 12: COLLEGE ENGLISH 1

½ credit

1 Semester

Grade: 12

Exam: Local

Prerequisites: 85 on English Regents

Note: Tuition is the student's responsibility

This basic course emphasizes student practice in expository writing and library skills. Reading and class discussion center on the formal and informal essay. This course is taught by an instructor from SUNY Orange. Maximum course enrollment is 25 students. Enrollment in this course may be limited to those students with the highest scores. There is a weighted course average of 1.10 and it is worth three SUNY Orange credits. In order to receive college credit, students must pay a tuition fee.

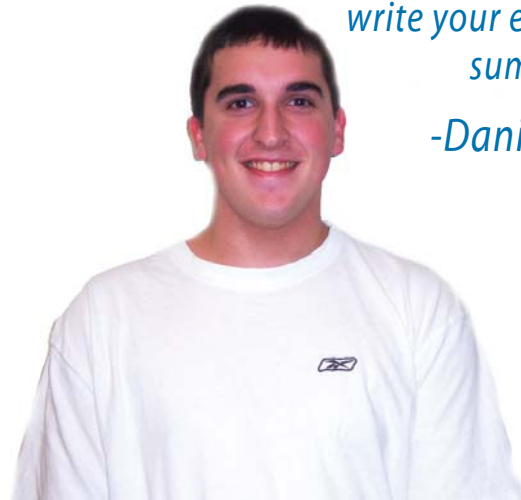
Don't wait, start looking at colleges now! Pick a general idea of your major, search a lot of colleges, and narrow it by the time you're a senior.

-Shivani Sharma



Start the college application process early. You can even write your essay over the summer.

-Daniel Berk



[EN 502 – ENGLISH 12: COLLEGE ENGLISH 2](#)

½ credit
1 Semester

Grade: 12
Exam: Local

Prerequisites: College English 1

Note: Tuition is the student's responsibility

This course emphasizes continued student practice in expository writing based on fiction, drama, and poetry. Research paper is required. This course is taught by an instructor from SUNY Orange. There is a weighted average of 1.10 and is worth three SUNY Orange credits. In order to receive college credit, students must pay a tuition fee.

[EN 601 – ENGLISH 12: CREATIVE WRITING](#)

½ credit
1 Semester

Grade: 12
Exam: Local

Prerequisites: English 11

Through concentrated study of various authors and forms, students will write their own short fiction, drama, and poetry. Students read, analyze, and critique works from authors of various genres and emulate the writer's style within their own writings. Students also examine such issues as: individual style, characterization, conflict, dialogue, and poetic form. In addition to students' creative writing, two oral presentations and a research paper are required. Students will be responsible for a research-based term paper utilizing MLA format.

[EN 604 – ENGLISH 12: MULTICULTURAL LITERATURE](#)

½ credit
1 Semester

Grade: 12
Exam: Local

Prerequisites: English 11

This course is designed to give students an in-depth look at America's rich cultural heritage through literary analysis and writing. It is intended that the analysis will engender an appreciation for students' own cultures, as well as the cultures of other people. The course is organized into six units: Folk Tales, Indian Literature, East Asian Literature, Greek Literature, Roman Literature, and Modern Latin American Literature. Each unit includes different genres of literature and focuses on reading and analyzing the beliefs and values of the culture. The final exam is a research paper on a student-selected culture and is based on the literature studied in class. Students will be responsible for a research-based term paper that utilizes MLA format.

[EN 605 – ENGLISH 12: LITERATURE OF HORROR](#)

½ credit
1 Semester

Grade: 12
Exam: Local

Prerequisites: English 11

The purpose of this course is to study, discuss, and apply the many elements of horror used to create a captivating story. Students will learn about the horror genre and understand the lasting effect it has on society. The elements of horror from Classic Gothic works to Contemporary works will be traced. Students will study renowned authors, including: Poe, Stoker, Lovecraft, Koontz, Saul, and King. Students will read novels, short stories, and poems, as well as demonstrate their knowledge of the subject through essays. Students will be responsible for a research-based term paper that utilizes MLA format.

[EN 606–ENGLISH 12:AFRICAN-AMERICAN LITERATURE](#)

½ credit
1 Semester

Grade: 12
Exam: Local

Prerequisites: English 11

This course is designed to expose students to the historic chronology of African and African-American literature. Reading selections highlight African traditions carried through to current American trends. Students will read and discuss works that relate to the American experience, which cover the time period from the Civil War through Reconstruction, to present day society. Students will be responsible for a research-based term paper that utilizes MLA format.

[EN 607 – ENGLISH 12: DEBATE/PERSUASION](#)

½ credit
1 Semester

Grade: 12
Exam: Local

Prerequisites: English 11

This course is designed for the student to explore the process of argumentation/persuasion, while acknowledging the fallacies of logic and reason. Students will journey through a New York State standards-based process of learning by using the research methods of MLA, followed by formal debate procedure. The semester will culminate with a formal presentation of a selected topic. The exposition will represent the written and spoken format in defense of the student's proposition. Students will be responsible for a research-based term paper that utilizes MLA format.

[EN 608–ENGLISH 12: RESEARCH FOR THE 21ST CENTURY](#)

½ credit
1 Semester

Grade: 12
Exam: Local

Prerequisites: English 11

Students will have an opportunity to explore the many forms of digital writing found on the Internet. A class Web log serves as the starting point for Internet research. Students will read,

analyze, evaluate, and respond in writing to literary topics in electronic forums. Additionally, students will publish their own writing by creating Web journals. The course provides an excellent opportunity for students to learn how to discriminate between credible and non-credible sources for legitimate research, and literary, interpretive, and responsive writing. Students will be responsible for a research-based term paper that utilizes MLA format.

[EN 610 – ENGLISH 12: ELEMENTS OF FILM**](#)

½ credit
1 Semester

Grade: 12
Exam: Local

Prerequisites: English 11

Students in this course will analyze film as a form of literature. The many aspects of literature, including plot and character development and how literature reflects and influences pop culture, will be discussed and written about in depth. Additionally, students will learn about the tools the film-maker brings to storytelling in a visual medium. Students will be responsible for writing critical essays, participation in small and large group activities, and creative projects. Students will be responsible for a research-based term paper that utilizes MLA format. All strands recommended in the New York State Education (NYSED) ELA syllabus will be addressed.

[EN 611 – ENGLISH 12: DRAMA**](#)

½ credit
1 Semester

Grade: 12
Exam: Local

Prerequisites: English 11

This course surveys chronologically the development of dramatic literature in western culture from the ancient Greeks through the 20th century classics. Emphasis is on the reading of selected plays from the major periods, including: Classical, Romantic, Victorian, and Modern. Acting and technical aspects of theater are covered and written assessments are required. Students will be responsible for a research-based term paper that utilizes MLA format.

[EN 612 – ENGLISH 12: JOURNALISM](#)

½ credit
1 Semester

Grade: 12
Exam: Local

Prerequisites: English 11

This course will develop student understanding of the elements of the communication process, such as reporting and editing, which are inherent in publishing a newspaper. Techniques for effective writing in the journalistic style will enhance each student's writing abilities, not only in journalism, but also in formal exposition. Emphasis is placed on the critical and analytical reading of related literature, including newspaper models. Students will be responsible for a research-based term paper that utilizes MLA format.

[EN 614 – ENGLISH 12: SHAKESPEARE](#)

½ credit
1 Semester

Grades: 12
Exam: Local

Prerequisites: English 11

Four hundred years after his death, William Shakespeare remains to be the most widely read author of the English-speaking world, is the most quoted poet, and the most regularly produced playwright. This course will provide an historical overview of the Elizabethan Period and examine Shakespeare's comedies, tragedies, as well as his historical and romance plays. Students will be required to actively participate in discussion, complete written assignments, and complete a research paper. Students will be responsible for a research-based term paper that utilizes MLA format.

[EN 615 – ENGLISH 12: POETRY](#)

½ credit
1 Semester

Grades: 12
Exam: Local

Prerequisites: English 11

In this course, students will read poetic selections from the Elizabethan, Romantic, Harlem Renaissance, and Contemporary Periods. The main focus is to familiarize students with certain classical and contemporary poets in such a way that they may distinguish the genre of poetry from other genres. Students will also understand the ways in which poetry communicates significant social customs of the period during which they were composed. The final grade will be based on the fall term paper, quizzes, essay tests, and a final exam. Students will be responsible for a research-based term paper that utilizes MLA format.

[EN 616 – ENGLISH 12: PSYCHOLOGY OF ADOLESCENCE THROUGH LITERATURE**](#)

½ credit
1 Semester

Grades: 12
Exam: Local

Prerequisites: English 11

The purpose of this course is to familiarize students with the adolescent psyche through character development in literature. Short stories, plays, and novels will be read as well as psychological texts that link with clinical psychology with the characters in these genres. The final grade will be based on a term paper, quizzes, essay tests, and a final exam. Students will be responsible for a research-based term paper that utilizes MLA format.

English/English as a Second Language

[EN 617 – ENGLISH 12: SCIENCE FICTION](#)

½ credit Grades: 12
1 Semester Exam: Local

Prerequisites: English 11

Students will study the genre of Science-Fiction through literature and film. Discussions will include: real science, current scientific discoveries and technology, and comparisons to other genres. The course will thematically explore the different kinds of Science-Fiction and will culminate with an original Science-Fiction story composed by the student. For each theme (unit), there will be a written assignment, a test, and homework. Students will be responsible for a research-based term paper that utilizes MLA format.

[EN 618 – ENGLISH 12: ELA SKILLS](#)

½ credit Grades: 12
1 Semester Exam: Local

Prerequisites: None

This course focuses on the New York State Regents and measurements of the learning standards. Students will read poetry and short stories to learn literary terminology for critical analysis. Graphs and charts will teach research conventions which will enable all participants to complete their research paper graduation requirement. Further writing will improve written responses to listening passages, short stories, poetry, plays, novels, and exposition. The use of scoring rubrics will facilitate understanding of composition development and assessment. Successful completion of this senior-level semester course will satisfy one-half credit of the ELA requirement.

[EN 630– ENGLISH 12: LITERATURE OF SPORTS**](#)

½ credit Grade: 12
1 Semester Exam: Local

Prerequisites: English 11

In this course, students will read and critically analyze the texts of great writers who cover sports from the past to the present. Students will come to understand the impact culture and society has on sports literature and vice versa. Students study both fiction and nonfiction literature and the evolution of sports literature from a poetic form to tabloid. Students will be responsible for a research-based term paper that utilizes MLA format.

[EN 631 – ENGLISH 12: IRISH LITERATURE**](#)

½ credit Grades: 12
1 Semester Exam: Local

Prerequisites: English 11

Students will gain insight into Irish culture through the ages by reading the works of various Irish authors and playwrights. Further, Irish Literature has had a vast impact on English Literature.

The contribution of Irish authors and works will lead students to have a greater understanding of English Literature. Students will be responsible for a research-based term paper that utilizes MLA format.

[EN 632 – ENGLISH 12: READING THE GRAPHIC NOVEL**](#)

½ credit Grades: 12
1 Semester Exam: Local

Prerequisites: English 11

This course is a survey of graphic novel theory. Students will investigate how and why artists make the choices they do in sequential art. This course will examine both contemporary and historical selections from this genre. The selection of literature will focus on award-winning graphic novels that develop universal themes and expand the medium. Selections may include, but are not limited to, *Maus I and II*, *Persepolis I*, *Zahra's Paradise*, *V for Vendetta*, and more. Students will be responsible for a research-based term paper that utilizes MLA format.

[ENGLISH AS A SECOND LANGUAGE](#)

English as a Second Language (ESL) is a required course for those students who come to Middletown speaking a language other than English and have to learn English. Students are placed in the various courses based on testing, either the LAB R, if they are new, or the New York State English as a Second Language Achievement Test (NYSESLAT) which measures annual progress in English development. ESL courses provide ELA and elective credit.

[EN 619 – ESL I LITERATURE/EN 620 – ESL I LANGUAGE ACQUISITION/ EN 621 – ESL I CONTENT](#)

1 credit each Grades: All
Full Year Exam: Local

Prerequisites: Eligibility based on NYSESLAT Score

These courses will develop skills in English for social interaction, basic vocabulary (both general and content area), acculturation to school and community, basic grammar, and beginning dictation. A mastery of beginning reading and writing skills and basic conversation are the goals of this course. Vocabulary essential to mathematics, science, social studies, physical education, and other courses, will be included. The student will receive two elective credits and one English credit. Pending NCAA approval.

[EN – 622 ESL II LANGUAGE ARTS](#)

[EN – 622L ESL II LANGUAGE ACQUISITION](#)

1 credit each Grades: All
Full Year Exam: Local

Prerequisites: Eligibility based on NYSESLAT Score

English as a Second Language/Family Consumer Science & Health

These courses are designed to continue development in speaking, listening, reading, and writing for information and understanding, with greater emphasis in reading, writing, grammar, and vocabulary. Content area instruction is included, as well as more advanced dictation skills. Higher-level oral communication is stressed with integrated activities in all skill areas. The student will receive one elective credit and one English credit.

EN 623 – ESL III

1 credit
Full Year

Grades: All
Exam: Local

Prerequisites: Eligibility based on NYSESLAT Score

This course is designed for literary response and for further development of speaking, listening, reading, and writing skills needed for success in the New York State Regents English program, in content area classes and in the community at large. Emphasis is on content embedded reading and writing skills, as well as advanced grammar, richer vocabulary, greater control of English syntax, and active listening and writing strategies. The student will receive one elective credit.

EN 625 – NATIVE LANGUAGE ARTS 9-12

1 credit each
Full Year

Grades: All
Exam: Local

Native Language Arts is a required component of the Bilingual Education Program. Instruction in Spanish is presented through culturally relevant literature in a variety of genres for analysis and response through reading, writing, and speaking while developing literacy through academic language skills. Credits may be used for Language Other Than English (LOTE). There is a class at each grade level with specific texts and content.

FAMILY CONSUMER SCIENCE & HEALTH

FC 101 – HEALTH

½ credit
1 Semester

Grades: 10-12
Exam: Local

Prerequisites: None

The major goal of Health Education is to provide information and skill development, which will help students make wise decisions in their personal lives today, and the tools for establishing life-long healthy life-styles. Topics covered include: disease, human sexuality, STD's and AIDS, substance abuse, mental health, safety and consumer health. As part of the Parenting Education mandate, new topics include: responsible parenting, human growth and development, parenting skills, and family support systems and services.

FC 600- NUTRITION AND THE PROFESSIONAL KITCHEN

1 credit
Full Year

Grades: All
Exam: Local

Prerequisites: None

The purpose of this course is to give students a solid foundation

of food preparation techniques, the background of the food pyramid, and topics studied and applied in class. In the first-half of the year, students will develop an understanding of basic nutritional concepts; they will study food categories completing a food production lab for each category of the food pyramid. The second-half of the year, students will build upon their basic cooking skills to produce gourmet and special dietary needs foods. Students will learn to work in a production kitchen that will give them the basics needed to start a career in the culinary field through instruction in planning, purchasing, cost control, execution, and service of food products. Students will explore the different career opportunities available throughout the nutrition and hospitality community. An emphasis on service, decor, and etiquette will be included.

FC 601– FOOD AND NUTRITION

½ credit
1 Semester

Grades: All
Exam: Local

Prerequisites: None

The purpose of this course is to teach students the foundations of food preparation with emphasis on nutritious meal planning. Student will investigate areas of study and career opportunities in the area of food and nutrition. Students will develop an understanding of basic nutritional concepts through instruction in nutritional requirements and the planning, purchasing, preparation, and service of food.

FC 602 – BAKING, PASTRY AND CONFECTIONARIES

½ credit
1 Semester

Grades: All
Exam: Local

Prerequisites: Nutrition and the Professional Kitchen or Food Nutrition

This course is designed to give students who have already completed Food and Nutrition an in-depth look into the production of cakes, pies, cookies, confections, ice cream, and other Patisserie items. This is a hands-on class with production in mind. The course will be divided into five sections, including: cakes, cookies, desserts, confections, and careers and business management. Each section will take an in-depth look into the creation and production of specific items and the history behind them. The final exam will be a group project in the form of a grand buffet or bake sale.

FC 603 – ADVANCED FOODS

½ credit
1 Semester

Grades: All
Exam: Local

Prerequisites: FC 601 Food & Nutrition

This course is available to students who have successfully completed the Food and Nutrition course. The students will learn to plan, purchase, and prepare nutritionally sound meals for family consumption. They will learn to work within a budget, use quantitative cooking, and other money saving strategies. Specialized techniques and equipment will be used to prepare gourmet and special needs meals. An emphasis on service,

décor, and etiquette will be included.

FC 604 – SPORTS NUTRITION & FITNESS

½ credit

1 Semester

Grades: 11-12

Exam: Local

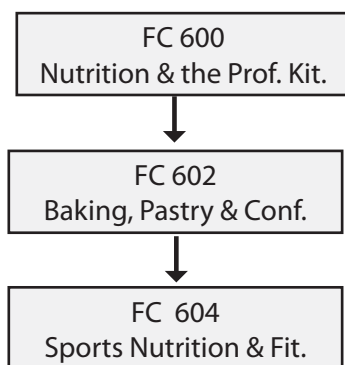
Prerequisites: None

The goal of this course is to provide an in-depth study of human nutrition, emphasizing its relationship to health and fitness. In this course students will relate the concepts of nutrition, diet, and exercise to good health. The following skills, knowledge, and behaviors will be developed:

1. Assessment of personal fitness and eating habits
2. Analysis of popular diets for nutritional adequacy
3. Personal plan for lifetime fitness
4. Energy requirements of various athletic sports
5. Safe and unsafe nutritional practices related to sports
6. Terms associated with the study of human nutrition
7. The role of nutrients in athletes' diets
8. Healthy and unhealthy eating habits
9. Nutrients in the life cycle
10. Dehydration: the importance of fluids and thirst quenchers during athletic performance
11. Eating disorders common in athletes
12. Personal career opportunities in relation to a career in nutrition

This is a course which requires strong writing skills. Students will write two papers and give two presentations.

Culinary Sequence



FC 605- HUMAN RELATIONSHIPS

½ credit

1 Semester

Grades: 10-12

Exam: Local

Prerequisites: None

This course is developed to explore the social implications of sexuality. It offers a historical perspective on attitudes and discusses current social issues, including: teenage sexuality/pregnancy, infertility, AIDS, birth control, sexual abuse and harassment, sex in advertising, alternative life-styles, and legal/ethical issues.

FC 606 – ADOLESCENT PSYCHOLOGY

½ credit

1 Semester

Grades: 10-12

Exam: Local

Prerequisites: None

This course is designed as an advanced exploration of the adolescent human experience. Adolescence has long been recognized as a unique time in which a young person explores concepts through a complex series of social interactions and abstract thought. During this process, the individual will develop a strong sense of identity and a philosophy for life. This course will explore such concepts as: gender equity, cultural diversity, hypothesis and theory development, personal integrity, personal relationships, personal health (physical, social and emotional), and action plans for the future—both personal and occupational.

FC 608 – CHILD DEVELOPMENT

½ credit

1 Semester

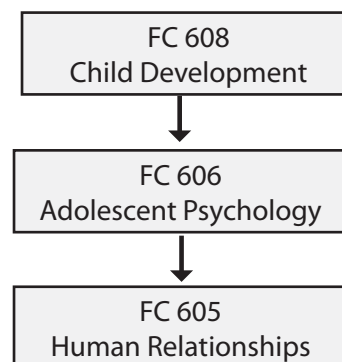
Grades: 10-12

Exam: Local

Prerequisites: None

This course provides students with the knowledge and skills necessary to be responsible caregivers and caring citizens for the younger generations. Included in the curriculum is the exploration of the decision to parent and the lifetime commitment necessary. Also covered are: pregnancy, prenatal development, human growth and development of the child (physical, emotional, social, cognitive and moral), discipline, child abuse, safety issues, and family nutrition. Identifying traits of a healthy family and the uses of support systems and services will also be explored.

Social Science Sequence



Family Consumer Science & Health/Foreign Language

FC 615 – WORLD OF FASHION

½ credit
1 semester
Grades 10-12
Exam: Local

Prerequisite: None

This course is designed to introduce students to the history of fashion while exploring key concepts in the field. Themes like fads, classics, theories of fashion change and economic, and social influences are all addressed. Students will go behind the scenes and learn the different steps of garment production, from raw fabric to its delivery to the retail outlet, examining the basic elements for clothing design and careers in the fashion industry.

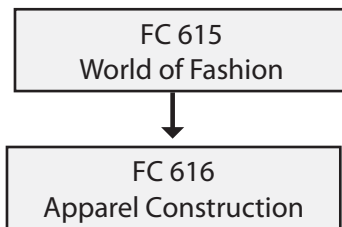
FC 616 - APPAREL CONSTRUCTION

½ credit
1 semester
Grades 10-12
Exam: Local

Prerequisite: World of Fashion

The main focus of this introductory-level class is on basic clothing construction skills, including the selection of patterns, fabrics and notions. This course will cover fabric identification, fabric and pattern layout, technical reading, and implementation of skills. In addition, students will have an opportunity to explore the role of fashion in everyday life, develop a sense of personal style, and explore careers in the fashion industry.

Fashion/Design Sequence



FOREIGN LANGUAGE

FR 101 – FRENCH I

1 credit
Full Year
Grades: All
Exam: Local

Prerequisites: None

This course is designed for students who have successfully completed the beginning French course in the eighth grade. It satisfies the objectives of functional proficiency at Checkpoint A, as outlined in the New York State syllabus. Students will be able to socialize, to provide and obtain information, to express personal feelings on a variety of topics, and to get others to adopt a course of action. This course satisfies the Language Other Than English (LOTE) requirement for graduation.

FR 201 – FRENCH II

1 credit
Full Year
Grades: All
Exam: Local

Prerequisites: French I

Expanding on the same topics covered in French I, and within the same framework of socializing, providing and obtaining information, expressing personal feelings, and getting others to adopt a course of action, students will increase his or her levels of proficiency and apply them to new situations. Structures are more complex than in Level I.

FR 301 – FRENCH III

1 credit
Full Year
Grades: All
Exam: Regents

Prerequisites: French II

Students will continue to develop his or her levels of proficiency and to apply them to new situations. They will be able to understand frequently used tense forms, order and word patterns, initiate and sustain conversations, understand simple narrative and descriptive authentic materials, write simple notes, letters, and reports comprehensible to native speakers. The New York State Comprehensive Regents Examination is taken upon completion of the course. Regents credits will be awarded upon successful completion of the course and a grade of 65% or higher on the New York State Comprehensive Regents Examination.

FR 401 – FRENCH IV

1 credit
Full Year
Grades: All
Exam: Local

Prerequisites: French III

This course is designed for the student who has successfully completed French III. Class discussions are conducted in French. The student continues to perfect grammatical structures, enhance vocabulary, and improve listening and speaking skills. An important part of the course is reading, summarizing, and discussing selected literary works.

SP 101 – SPANISH IA

1 credit
Full Year
Grades: All
Exam: Local

Prerequisites: Teacher Recommendation

This is an introductory Spanish level one course. Students will be exposed to a variety of topics that will include: culture, grammar, and conversation. Students in this level will develop reading, writing, speaking, and listening skills. This level is currently being offered as a Spanish 1A course to eighth grades students at the middle school. This course satisfies the objectives of functional proficiency of Checkpoint A, as outlined in the New York State syllabus. Students will be able to socialize, to provide and obtain information, to express personal feelings on a variety of topics, and to get others to adopt a course of action. This course satisfies the LOTE requirement for graduation. Students in this course will take a quarterly exam, midterm, and final exam developed by the department.

Foreign Language

[SP 102 – SPANISH I](#)

1 credit Grades: All
Full Year Exam: Local

Prerequisites: Spanish 1A in Middle School

This is an introductory Spanish level one course. Students will be exposed to a variety of topics that will include: culture, grammar, and conversation. Students in this level will develop reading, writing, speaking, and listening skills. This course satisfies the objectives of functional proficiency of Checkpoint A, as outlined in the New York State syllabus. Students will be able to socialize, to provide and obtain information, to express personal feelings on a variety of topics, and to get others to adopt to a course of action. This course satisfies the LOTE requirement for graduation. Students in this course will take a quarterly exam, midterm, and final exam developed by the department.

[SP 201 – SPANISH II](#)

1 credit Grades: All
Full Year Exam: Local

Prerequisites: Spanish I

Expanding on the same topics covered in Spanish I, and within the same framework of socializing, providing and obtaining information, expressing personal feelings, and getting others to adopt a course of action, students will increase his or her levels of proficiency and apply them to new situations. Structures are more complex than in Level I.

[SP 301 – SPANISH III](#)

1 credit Grades: All
Full Year Exam: Regents

Prerequisites: Spanish II

Students will continue to develop their levels of proficiency and to apply them to new situations. They will be able to understand frequently used tense forms and word-order patterns, to initiate and sustain conversations, to understand simple narrative and descriptive authentic materials, and to write simple notes, letters, and reports comprehensible to native speakers. The New York State Comprehensive Regents Examination is taken upon completion of the course. Regents credits will be awarded upon successful completion of the course and a grade of 65% or higher on the New York State Comprehensive Regents Examination.

[SP 401 – SPANISH IV](#)

1 credit Grades: All
Full Year Exam: Local

Prerequisites: Spanish III and Departmental approval

This course is designed for the student who has successfully completed Spanish III. Class discussions are conducted in Spanish. The student continues to perfect grammatical struc-

tures, enhance vocabulary, and improve listening and speaking skills. An important part of the course is reading, summarizing, and discussing selected literary works.

[SP 501 – AP SPANISH](#)

1 credit Grade: 12
Full Year Exam: AP

Prerequisites: Spanish IV and Department Approval

Advanced Placement Spanish Language is the equivalent of a college third-year Spanish course. In this course, the student will develop sufficient skills to comprehend formal and informal spoken Spanish, understand reading materials on various topics of interest, master the ability to write on topics of general interest, and demonstrate oral proficiency in narrating, describing and explaining facts, ideas, and personal opinions. The course offers students who have done well on the AP examination the opportunity to earn appropriate placement and/or credit granted by participating colleges and universities and has a weighted average of 1.10. The AP exam is required in May and the fee for this exam is \$83. The final exam is based on literature, which will be read after the AP exam.

[SP 600–SPANISH FOR HERITAGE LANGUAGE LEARNERS BEGINNER I**](#)

1 credit Grades: All
Full Year Exam: Local

Prerequisites: Heritage Middle School Student and Teacher Recommendation

This course, designed for the Spanish speaking heritage student, is a continuation of Heritage Language Learners I from the eighth grade. It will focus on the particular needs of the native speaker of Spanish. It is designed to help the student maintain oral/aural skills while developing grammatical skills. Emphasis will be placed on enriching vocabulary and improving skills for written communication. Class discussions in Spanish may include topics such as: adjusting to life in the United States, American customs, lifestyles, school life, career choices, and appreciation of Hispanic culture and contributions. The dominant language used is Spanish. The focus is on reading and writing in Spanish, with comparisons between English and Spanish of both vocabulary and grammatical structure. The course is designed to prepare native speakers for future success in our society.

[SP 601–SPANISH FOR HERITAGE LANGUAGE LEARNERS INTERMEDIATE II**](#)

1 credit Grades: All
Full Year Exam: Local or Regents with recommendation

Prerequisites: Spanish Heritage Beginner I with a 65 or higher

This course, designed for the Hispanic student, is a continua-

tion of Heritage Language Learners I from the eighth grade. It will focus on the particular needs of the native speaker of Spanish. It is designed to help the student maintain oral/aural skills while developing grammatical skills. Emphasis will be placed on enriching vocabulary and improving skills for written communication. Class discussions in Spanish may include topics such as: adjusting to life in the United States, American customs, lifestyles, school life, career choices, and appreciation of Hispanic culture and contributions. The dominant language used is Spanish. The focus is on reading and writing in Spanish, with comparisons between English and Spanish, of both vocabulary and grammatical structures. The course is designed to prepare native speakers for future success in our society. This course satisfies the LOTE requirement for graduation. The student is offered the opportunity to challenge the Comprehensive Regents Exam in Spanish by completing a project and by achieving a minimum of 85% on the Regents exam. If both requirements are met, the students will be awarded three credits in LOTE.

MATH

MA 106 – INTEGRATED ALGEBRA HONORS

1 credit Grade: 9
Full year Exam: Regents

Prerequisites: Must meet Honors Course Guidelines

This is a one-year course leads to the Integrated Algebra Regents examination. This course covers the topics of: algebraic expressions, properties of the real numbers, solving linear equations, word problems with linear equations, graphing linear equations, writing linear equations, solving linear inequalities, graphing linear inequalities, statistics, systems of linear equations and inequalities, rational expressions, radicals, parabolas, linear-quadratic systems, right triangles, perimeter, area, volume, total surface area, probability, sets and functions, and statistics. There is a weighted course average of 1.05.

MA 107 – INTEGRATED ALGEBRA REGENTS

1 credit Grade: 9
Full year Exam: Regents

Prerequisites: Final grade of B or higher in math 8, Level 3 or level 4 on the math 8 state exam

This one-year course leads to the Integrated Algebra Regents examination. This course covers the topics of: algebraic expressions, properties of the real numbers, solving linear equations, word problems with linear equations, graphing linear equations, writing linear equations, solving linear inequalities, graphing linear inequalities, statistics, systems of linear equations and inequalities, rational expressions, radicals, parabolas, linear-quadratic systems, right triangles, perimeter, area, volume, total surface area, probability, sets and functions, and statistics.

MA 108 – INTEGRATED ALGEBRA 108

1 credit Grade: 9
Full year Exam: Local

Prerequisites: Low B or C average in math 8, Level 3 or high level 2 on the math 8 state exam

This course is the first year of a year and a half sequence leading to the Integrated Algebra Regents examination. This course covers the topics of: algebraic expressions, properties of the real numbers, solving linear equations, word problems with linear equations, graphing linear equations, writing linear equations, solving linear inequalities, graphing linear inequalities, statistics, systems of linear equations and inequalities, rational expressions, radicals, parabolas, linear-quadratic systems, right triangles, perimeter, area, volume, and total surface area. There is a required every other day AIS lab attached to this class.

MA 109 – INTEGRATED ALGEBRA 109

1 credit Grade: 9
Full Year Exam: Local

Prerequisites: C or lower in Math 8, Level 2 or lower on the state Math 8 examination

This is a one-credit, double-period block course offered for freshmen who have scored a C or lower in Math 8 and a level one or low two in Math 8. This course is the first year of a two-year sequence leading to the Algebra examination. This course covers the topics of: algebraic expressions, properties of the real numbers, solving linear equations, word problems with linear equations, graphing linear equations, writing linear equations, solving linear inequalities, graphing linear inequalities, statistics, systems of linear equations, and systems of linear inequalities.

MA 115 – MATH AE5

½ credit Grades: All
1 Semester Exam: Regents

Prerequisites: None

This is a half-year course for students who have successfully completed a Math A sequence or Integrated Algebra, but not yet passed the Math A or Integrated Algebra Regents Exam. This course covers the same topics as algebra at a higher level.

MA 206 – INTEGRATED GEOMETRY HONORS

1 credit Grade: 9
Full year Exam: Regents

Prerequisites: Must meet Honors Course Guidelines

This Honors course follows the successful completion of Integrated Algebra Honors. The Integrated Geometry Regents examination will be taken at the end of the year. This course covers the topics of: direct, indirect, deductive, and analytic geometric proofs, and transformational geometric proofs, properties and applications of parallel and perpendicular lines, applications of the properties of a regular pyramid, cylinder,

right circular cone and sphere, constructions of angle bisectors, perpendicular bisector of a given segment, parallel or perpendicular lines, equilateral triangle, compound loci, logic proofs, congruent triangles, isosceles triangles, triangle inequalities, regular polygons, special parallelograms, trapezoids, similar triangles, triangle mean proportionality, angles in circles, transformational geometry, and coordinate geometry. There is a weighted course average of 1.05.

MA 207 – INTEGRATED GEOMETRY REGENTS

1 credit
Full Year

Grade: 10
Exam: Regents

Prerequisites: Successful completion of MA 107

This course follows the successful completion of Integrated Algebra. The Integrated Geometry Regents examination will be taken at the end of the year. This course covers the topics of: direct, and analytic geometric proofs, and transformational geometric proofs, equilateral triangle, compound loci, logic proofs, congruent triangles, isosceles triangles, triangle inequalities, regular polygons, special parallelograms, trapezoids, similar triangles, triangle mean proportionality, angles in circles, transformational geometry, and coordinate geometry.

MA 208 – INTEGRATED ALGEBRA/GEOMETRY

1 credit
Full Year

Grade: 10
Exam: Regents

Prerequisites: Successful completion of MA 108

This course is the second year of a year and a half sequence leading to the Integrated Algebra Regents examination. The second semester will begin the Integrated Geometry curriculum. This course covers the topics of: algebraic expressions, properties of the real numbers, solving linear equations, word problems with linear equations, graphing linear equations, writing linear equations, solving linear inequalities, graphing linear inequalities, statistics, systems of linear equations and inequalities, rational expressions, radicals, parabolas, linear-quadratic systems, right triangles, perimeter, area, volume, and total surface area, properties and applications of parallel and perpendicular lines, applications of the properties of a regular pyramid, cylinder, right circular cone, and sphere, constructions of angle bisectors, perpendicular bisector of a given segment, parallel or perpendicular lines, equilateral triangle, compound loci, and logic proofs. There is a required AIS lab period, which meets every other day for a full period.

MA 209 – INTEGRATED ALGEBRA

1 credit
Full Year

Grade: 10
Exam: Regents

Prerequisites: Successful completion of MA 109

This course is the second year in a two-year course leading to

the Integrated Algebra Regents examination. This course covers the topics of: rational expressions, radicals, parabolas, linear-quadratic systems, right triangles, perimeter, area, volume, total surface area, probability, sets and functions, and statistics. There is a required lab period, which meets every other day for a full period.

MA 306 – INTEGRATED ALGEBRA II/TRIGONOMETRY HONORS

1 credit
Full Year

Grade: 10
Exam: Regents

Prerequisites: Must meet Honors Course Guidelines

This Honors course follows the successful completion of Integrated Geometry honors. The Integrated Algebra II and Trigonometry Regents examination will be taken at the end of the year. This course covers the topics of: properties and operations in the real and complex number systems, functions, operations with radicals, solving linear or quadratic equations and systems, completing the square, discriminant, polynomials, exponents, rational expressions, logarithms, logarithmic and exponential equations, arithmetic and geometric sequences, coordinate geometry, non-right triangle trigonometry, graphing trigonometric functions, measures of central tendency, measures of dispersion, normal distribution, statistical graphs, permutations, combinations, and probability. There is a weighted course average of 1.05.

MA 307 – INTEGRATED ALGEBRA II AND TRIGONOMETRY

1 credit
Full Year

Grade: 11
Exam: Regents

Prerequisites: Successful completion of MA 206 or MA 207 and minimum score of a 75 on the Integrated Algebra Regents

This course follows the successful completion of Integrated Geometry. The Integrated Algebra II and Trigonometry Regents examination will be taken at the end of the year. This course covers the topics of: properties and operations in the real and complex number systems, functions, operations with radicals, solving linear or quadratic equations and systems, completing the square, discriminant, polynomials, exponents, rational expressions, logarithms, logarithmic and exponential equations, arithmetic and geometric sequences, coordinate geometry, non-right triangle trigonometry, graphing trigonometric functions, measures of central tendency, measures of dispersion, normal distribution, statistical graphs, permutations, combinations, and probability.

MA 308 – INTEGRATED GEOMETRY 308

1 credit
Full Year

Grade: 11
Exam: Regents

Prerequisites: Successful completion of MA 208

This course is the second year of a year and a half sequence

leading to the Integrated Geometry Regents examination. This course covers the topics of: direct, indirect, and deductive, for students who scored a level one or low level two on the New York State Math 8 Examination. This course is intended to assist students at risk of not achieving the state learning standards in mathematics, or who are at risk of not gaining the knowledge and skills needed to meet or exceed designated performance levels on state assessments. Analytic geometric proofs, and transformational geometric proofs, equilateral triangle, compound loci, logic proofs, congruent triangles, isosceles triangles, triangle inequalities, regular polygons, special parallelograms, trapezoids, similar triangles, triangle mean proportionality, angles in circles, transformational geometry, and coordinate geometry.

[MA 309 – GEOMETRY**](#)

1 credit
Full Year

Grade: 11 &12
Exam: Local

Prerequisites: Successful completion of Integrated Algebra course and passing the Integrated Algebra Regents Exam

This is a one credit course that follows the successful completion of Integrated Algebra. This course will cover topics in geometry. This course covers the topics of: parallel and perpendicular lines, properties of a regular pyramid, cylinder, right circular cone, and sphere, constructions of angle bisectors, perpendicular bisector, parallel or perpendicular lines, isosceles triangles, equilateral triangle, compound loci, congruent triangles, triangle inequalities, special parallelograms, trapezoids, similar triangles, angles in circles, properties and operations in the real and complex number systems, functions, operations with radicals, solving linear or quadratic equations and systems, arithmetic and geometric.

[MA 409 – INTEGRATED ALGEBRA 2 AND TRIGONOMETRY](#)

1 credit each semester
Full Year

Grade: 11-12
Exam: Local

Prerequisites: Pass courses in Integrated Algebra or Geometry

This is a one credit course that follows the successful completion of Integrated Geometry or MA 309. This course includes the study of: the real number system, rational expressions, rational equations, radials, imaginary and complex numbers, introduction to trigonometry, trigonometric functions, triangle trigonometry, and statistics. This course is intended to prepare students for college mathematics. There is no Regents exam in this course.

[MA 501 – COLLEGE CALCULUS I](#)

[MA 503 – COLLEGE CALCULUS II](#)

½ credit each semester
Full Year

Grade: 12
Exam: Local

Prerequisites: Final grade of 85 in Pre-Calculus

Note: Tuition cost is the student's responsibility

This course is one-half credit each semester. It introduces topics of analytical geometry, including: algebraic functions and transformations, trigonometric functions and identities, limits, continuity, derivatives, implicit differentiation, related rate problem, Rolle's Theorem and Mean Value Theorem, curve sketching (relative max/min concavity, points of inflection, limits at infinity, horizontal asymptotes), applications of differentiation, differentials, anti-differentiation, the definite integral sigma notation, and the Fundamental Theorem of Calculus. Also included is a continuation of calculus which builds on the basic concepts of derivatives and integration to include: a calculus of exponents, logarithms, trigonometric functions, inverse trigonometric functions and hyperbolic, the area of a region between two curves, solids of revolution, application problems, integration, trapezoidal rule, Simpson's rule, L'Hopitals rule, Taylor and Maclaurin polynomials, sequences and series, and conics and rotational formula. There is a required lab period, which meets every other day for a full period. There is a tuition fee for this course. This course has a weighted average of 1.10 and is worth eight SUNY Orange credits.

[MA 505 – COLLEGE STATISTICS**](#)

1 credit
Full Year

Grades: 11 & 12
Exam: Local

Prerequisites: 85 or higher in MA 306 or MA 307 (OCCC required)

Note: Tuition is the student's responsibility

This course examines the general elements and principles of statistics used in the fields of education, consumerism, quality control, allied health, physical sciences and social sciences. The course is broken into two parts—descriptive statistics and inferential statistics. Topics include: methods of summarizing and presenting data, measures of center, spread and position, probability, binomial probability distribution, normal probability distribution, t-test, chi-square test, confidence intervals, hypothesis testing and linear regression. This course is worth three SUNY Orange credits and has a weighted average of 1.10. There is a tuition fee for this course.

[MA 506 – COLLEGE ALGEBRA**](#)

1 credit
Full Year

Grades: 11 & 12
Exam: Local

Prerequisites: 85 or higher in MA 306 or MA 307 (required by SUNY Orange)

Note: Tuition is the student's responsibility

This course is designed to promote the understanding of the logical structure of algebra and the development of algebraic functions and their graphs, linear and quadratic functions, polynomial and rational functions, inverse functions, exponential and logarithmic functions, conic sections, and the binomial formula. This course has a weighted average of 1.10 and is worth

three SUNY Orange credits. There is a tuition fee for this course.

[MA 509 – TOPICS IN PRE-CALCULUS](#)

1 credit
Full Year

Grade: 12
Exam: Local

Prerequisites: Successful completion of MA 306, Math 307, or MA 409

This course includes the study of: reading a college math book, college study skills, functions, right triangle trigonometry, law of sines, law of cosines, area of a triangle, advanced algebraic factoring, exponentials and the applications to word problems, applications of logarithms to word problems, matrices, conic sections, and series and sequences.

[MA 601 – PRE-CALCULUS](#)

1 credit
Full Year

Grades: 11 & 12
Exam: Local

Prerequisites: Passed MA 306 or MA 307 course and Regents (students who pass the course but fail the Algebra 2/Trig Regents need Department Chair's approval)

This is a one-credit course that follows the successful completion of Math B. It is designed for students who plan on furthering their education after high school by preparing the student for either college math or calculus. The course consists of further enrichment and applications in: coordinate geometry, quadratics, conics, functions, polynomials, trigonometry, complex numbers, series and sequences, limits, properties of exponents, and logarithms.

[MA 602 – PRE-CALCULUS HONORS](#)

1 credit
Full Year

Grades: 11 & 12
Exam: Local

Prerequisites: Must meet Honors Course Guidelines

This is a one-credit enriched Pre-Calculus course for academically talented, motivated mathematics students. This course is designed to challenge students. The students will cover topics as in Pre-Calculus, but in greater scope and depth. The student will take the Math B Regents exam for a diploma with distinction during this course. There is a weighted average of 1.05.

[MA 603 – CALCULUS](#)

1 credit
Full Year

Grades: 12
Exam: Local

Prerequisites: Pass Pre-Calculus

This is a one-credit course presenting the following topics: limits, differentiation, applications of differential calculus, anti derivative, indefinite and definite integrals, and applications of integration including areas, volume, average (mean) value and conic. All students wishing to take this course must have a firm understanding of the algebraic, geometric, trigonometric techniques, and logarithmic skills. There is a required lab period, which meets every other day for a full period. This course has a weighted average of 1.05.

[MA 605 – VISUAL BASIC PROGRAMMING](#)

½ credit
1 Semester

Grades: 11 & 12
Exam: Local

Prerequisites: Two credits of high school math

This is a half-year, half credit course where students will be introduced to the programming language Visual Basic. The purpose of this course is to provide the students with hands on experience about how a computer functions. Students will learn about basic programming structures and will be expected to write executable programs. If a student passed any New York Regents examination in Mathematics, this course may count towards the third math credit. Otherwise, the course counts as a math elective. This course is not NCAA approved.

[MA 606 – JAVA PROGRAMMING](#)

½ credit
1 Semester

Grades: 11 & 12
Exam: Local

Prerequisites: Two credits of high school math

This is a half-credit course where students will be rigorously exposed to the structure of Java. The student will be expected to write executable programs, which calculate, sort, search, and interact with the user. Basic graphic enhancements to these programs will also be expected. If a student passed any New York Regents examination in mathematics, this course may count towards the third math credit. Otherwise, the course counts as a math elective. This course is not NCAA approved.

[MA 607 – C++ PROGRAMMING](#)

1 credit
Full Year

Grades: 11 & 12
Exam: Local

Prerequisites: Visual Basic or Java

This is a one-credit, one-year course where students will be rigorously exposed to the structure of programming in C++. The student will be expected to write executable programs, which calculate, sort, search, and interact with the user. Basic graphic enhancements to these programs will be expected. This course is not NCAA approved.

[MA 608 – MATH AIS](#)

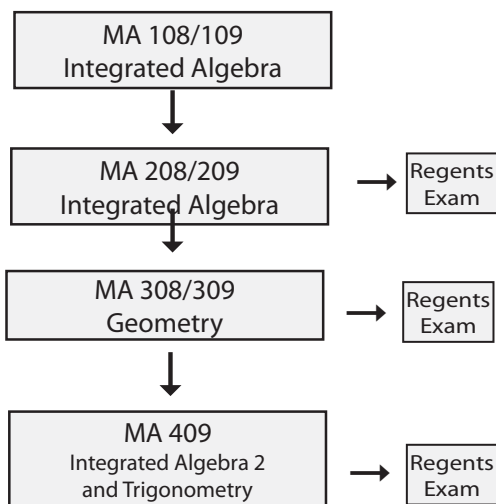
No Credit
Full Year Every Other Day

Grades: All
Exam: None

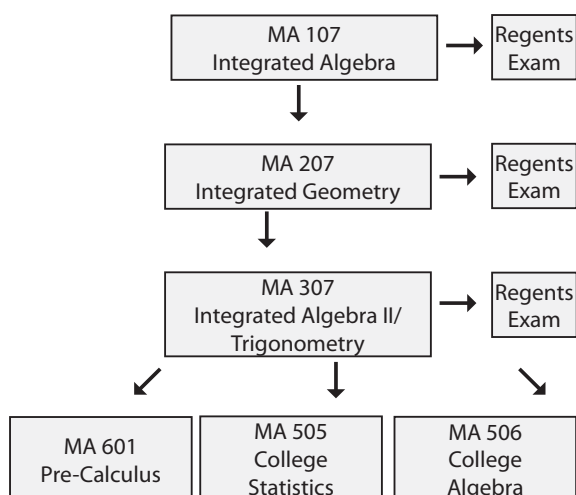
Prerequisites: None

This is a non-credit-bearing remediation course for all students who scored a level one or low level two on the New York State Math 8 Examination. This course is intended to assist students who are at risk of not achieving the state learning standards in mathematics, or who are in risk of not gaining the knowledge and skills needed to meet or exceed designated performance levels on state assessments. This course is not NCAA approved.

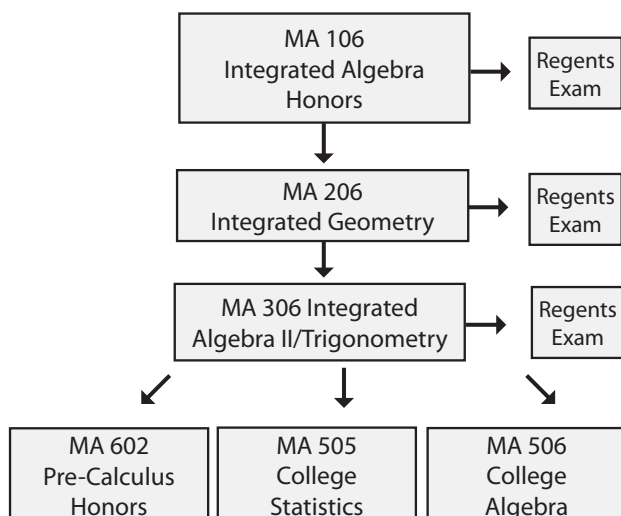
Math Core Sequence



Math Regents Sequence

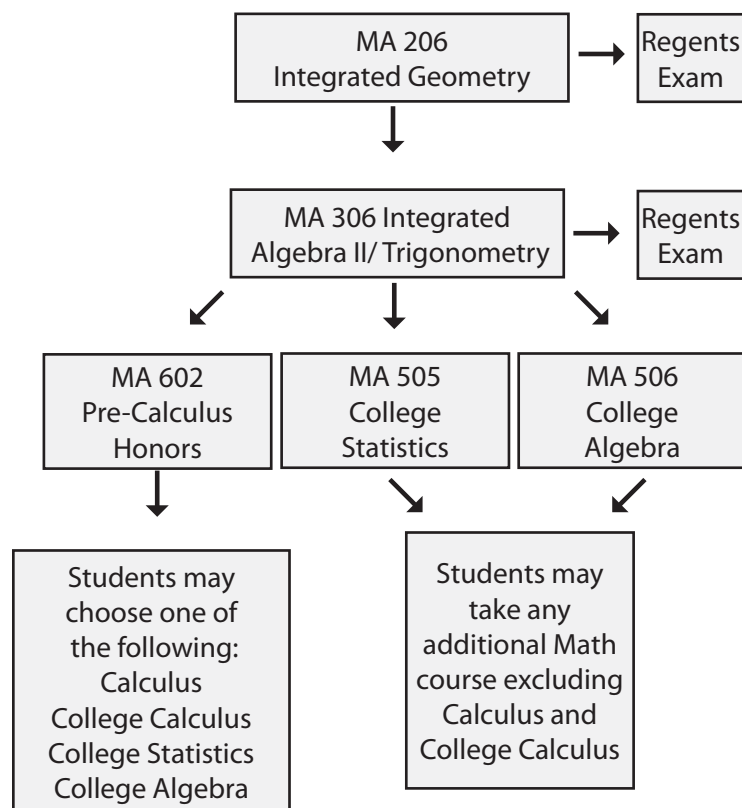


Math Honors Sequence



Math Honors Sequence

Students who took Honors in 8th Grade



MUSIC

MU 601 – MEN’S CHORUS

½ credit

Every other day

Prerequisites: Audition

The Middletown High School Men’s Chorus study and sing choral music representing a variety of musical styles and historical periods. The Chorus participates in various national competitions, as well as having selected members sing in festivals such as: All-County, Area All-State, and All-State. An audition is required for membership, and the student should have prior choir experience. A strong music reading ability is also a prerequisite. Small group/ensemble lessons and participation in scheduled concerts is encouraged. Small group lessons are scheduled during the academic school day on a rotating basis. Students will miss regularly scheduled classes once every two to four weeks for vocal lessons, which should total four lessons per student during each marking period.

Grades: All

Exam: Local

[MU 601H – MEN’S CHORUS HONORS](#)

[MU602H – CONCERT CHOIR HONORS](#)

[MU 603H – WOMEN’S CHORALE HONORS](#)

[MU 604H – CHAMBER SINGERS HONORS](#)

Music

½ credit each
Every other day

Grades: All
Exam: Local

Prerequisites: Audition and acceptance into Pipers

Honors Chorus includes Chamber Singers, Women's Chorale or Men's Chorus plus the following: Students must pass a successful audition to participate in Pipers, NYSSMA, area All-State and/or All-County auditions and performances. There is a weighted average of 1.05.

MU 602 – CONCERT CHOIR

½ credit
Every other day

Grades: All
Exam: Local

Prerequisites: None

Past experience is not a requirement for this choir, but all students should be prepared to sing for placement during the first week of class. All singers should maintain a strong sense of pride and a commitment to the art of singing. Small group/ensemble lessons and participation in scheduled concerts is encouraged. Small group lessons are scheduled during the academic school day on a rotating basis. Students will miss regularly scheduled classes once every two to four weeks for vocal lessons, which should total four lessons per student during each marking period.

MU 603 – WOMEN'S CHORALE

½ credit
Every other day

Grades: All
Exam: Local

Prerequisites: Audition

The Middletown High School Women's Chorale study and sing choral music representing a variety of musical styles and historical periods. The Chorale participates in various national competitions, as well as having selected members sing in festivals such as All-County, Area All-State, and All-State. An audition is required for membership and the student should have past choir experience. A strong music reading ability is also a prerequisite. Small group/ensemble lessons and participation in scheduled concerts is encouraged. Small group lessons are scheduled during the academic school day on a rotating basis. Students will miss regularly scheduled classes once every two to four weeks for vocal lessons, which should total four lessons per student during each marking period.

MU 604 – CHAMBER SINGERS

½ credit
Every other day

Grades: All
Exam: Local

Prerequisites: Audition

The MHS Chamber Singers is the smallest of the select choirs having no more than 32 voices, consisting of equal soprano, alto, tenor, and bass sections. Like the Women's Chorale and Men's Chorale, this ensemble also requires an audition. They too participate in national competitions and various music

festivals. Small group/ensemble lessons and participation in scheduled concerts is required. Small group lessons are scheduled during the academic school day on a rotating basis. Students will miss regularly scheduled classes once every two to four weeks for vocal lessons, which should total four lessons per student during each marking period.

MU 606 – CONCERT BAND

1 credit
Full Year

Grades: All
Exam: Local

Prerequisites: Play an Instrument

The Concert Band is open to all students. Each student must play an audition for the band director for seating purposes. Concert Band meets five times a week. Each student is required to perform at 3-4 evening concerts during the school year, attend weekly graded lessons, and keep a notebook for lesson/class material. Both written and playing tests will be given to all students. All Concert Band students are required to perform at graduation ceremonies. Small group lessons and participation in scheduled concerts is encouraged. Small group lessons are scheduled during the academic school day on a rotating basis. Students will miss regularly scheduled classes on a biweekly basis for instrumental lessons.

MU 607 – WIND ENSEMBLE

1 credit
Full Year

Grades: All
Exam: Local

Prerequisites: Audition

The Wind Ensemble is for musically advanced instrumental students. Selection is by audition only. The Wind Ensemble meets five times a week. Each student is required to perform at 4-5 evening concerts, attend weekly graded lessons, and keep a notebook for lesson/class material. Both written and playing tests will be given to all students. All Wind Ensemble students are required to perform at graduation ceremonies. Small group lessons and participation in scheduled concerts is encouraged. Small group lessons are scheduled during the academic school day on a rotating basis. Students will miss regularly scheduled classes on a biweekly basis for instrumental lessons.

MU 606H – CONCERT BAND HONORS

MU 607H – WIND ENSEMBLE HONORS

1 credit
Full Year

Grades: All
Exam: Local

Prerequisites: Audition

All Honors Band members receive weighted credit of 1.05 in their GPA. The Honors Concert Band and Honors Wind Ensemble students must meet all requirements listed for Concert Band and/or Wind Ensemble, plus the following: Each student must participate in ALL Marching Band rehearsals and performances, and each student must choose to do one of the following:

Music

1. Participate in all rehearsals and performances with the MHS Jazz Ensemble
2. Participate in all rehearsals and performances with the Chamber Ensemble
3. Prepare and audition for All-County (if selected, must perform with All-County)
4. Prepare for and participate at the NYSSMA Solo and Ensemble festival

MU 610 – MUSIC THEORY

1 credit
Full Year

Grades: All
Exam: Local

Prerequisites: Ensemble Experience

Students will develop an understanding of the basic rules and principles involved in using the language of music. Students will learn to analyze music visually and naturally. It is a requirement of this course that students sing alone and together and play a pitched instrument in the classroom setting. Students will be evaluated through class discussion, quizzes, and tests. Quizzes and tests will include listening, singing, playing, plus written questions.

MU 611– ADVANCED MUSIC THEORY STRUCTURE

1 credit
Full Year

Grades: All
Exam: Local

Prerequisites: Music Theory

Advanced Music Structure is a continuation of the Music Theory course. Emphasis will be placed on written and aural analysis and composition. This course is strongly suggested for students planning on continuing their musical studies at the college level.

MU 612 – MUSIC IN OUR LIVES

½ credit
1 Semester

Grades: All
Exam: Local

Prerequisites: None

Music in our Lives is designed to develop the student's understanding of the function of music in everyday life, both now and historically. Basic facility in music will be developed through activities, projects and directed listening experiences. The course will deal with the skills of listening, performing, composing, musical elements, and the development of a special interest independent project. To complete the art/music requirement this course must be followed by either a performing ensemble or basic art class.

MU 613 - INTRODUCTION TO GUITAR

½ credit
1 Semester

Grades: All
Exam: Local

Prerequisite: None

This entry-level guitar course is designed to teach students to play basic chords on the guitar. Learning chords will enable students to play songs, accompany themselves in singing, and

accompany other instrumentalists. Students will explore the essential elements of music which will include: harmony, melody construction, rhythm and meter, texture, etc. In addition, students will learn transcription which is the process of hearing a composition and determining how to play it "by ear." This skill will provide the students with the ability to perform songs they listen to. To fulfill the Fine Art requirement for graduation, students must take an additional half-credit in either art or music.

MU 621 – GROUP VOICE

1 credit
Full Year

Grades: All
Exam: Local

Prerequisites: None

This introductory-level course is designed to develop vocal potential by learning proper vocal techniques, studying musical notation, diction, sight-reading, and performing vocal solo literature (Folk, Musical Theatre, and 17th/18th Century arias and art songs). Students will work on musical skills through a focused course of study that is based on "Sound Thinking." Performance opportunities will be extended to small ensemble literature (duets, trios, and quartets) as well. Students will be guided through a survey of historical time periods, composers, and will study representative literature. Each student will be required to choose solo selections from the New York State School Music Association's Solo and Ensemble Festival Manual to study. In addition, the student will work towards a final solo assessment performance at one of the Zone 9 Spring Solo Festivals.

MU 623 – GUITAR II

½ credit
1 Semester

Grades: All
Exam: Local

Prerequisite: Introduction to Guitar or Permission of Instructor

This advanced-level guitar course is designed to continue the studies that students began in Introduction to Guitar. Students will be exposed to intermediate/advanced guitar techniques, chord materials, movable scales, alternative left hand fingerings, and progress into fifth and seventh positions. The course will focus on the study of Pop and Jazz/Blues genres, and will include a major emphasis in music theory, which will require written work and student composition.

MU 630– PIANO I

½ credit each
1 Semester

Grades: All
Exam: Local

Prerequisites: None

This is a group course where students will learn basic keyboard skills. The class will begin with note names, rhythms, chords, and progress to scales, note reading, and harmonization. We will explore a wide variety of music, including: folk, popular,

Naval Science/Physical Education

and classical. Emphasis will be placed on basic keyboard technique, fingerings, and sight-reading.

MU 702 – ACTOR’S STUDIO

1 credit Grades: All
Full Year Exam: Local

Prerequisites: None

Students will be involved in the acting process, including script writing and character analysis, improvisation, blocking, stage presence, diction, performance critiques, and many other theatre activities. Coursework will encompass all four of the standards for Theatre Arts required by New York State. Successful completion of this course will include participation and performing standard material, as well as creating original works.

MU 703 – ADVANCED ACTOR’S STUDIO

1 credit Grades: All
Full Year Exam: Local

Prerequisites: Actor’s Studio

Students will continue their theatrical studies with advanced assignments and responsibilities related to on stage as well as technical design, performance and evaluation.

NAVAL SCIENCE

NA 601 – NAVAL SCIENCE I

1 credit Grades: All
Full Year Exam: Local

Prerequisites: None

This course introduces the beginning cadet to the Navy and its program for youth in American High Schools. It emphasizes the relationship of the seas to American history, world geography, international relations, and economics. Study habits, obedience, conduct, and courtesy are covered to lay the foundations for sound leadership and citizenship. The cadet is introduced to military drill, navigation and seamanship, naval organization, and career opportunities as an introduction to the naval environment.

NA 602 – NAVAL SCIENCE II

1 credit Grades: 10-12
Full Year Exam: Local

Prerequisites: Naval Science I

The second year of Naval Science reinforces citizenship standards, high leadership goals, good study habits, and a sense of moral responsibility. This course examines the naval services’ effect on the historical, political, and economic development of the United States.

NA 603 – NAVAL SCIENCE III

1 credit Grades: 11-12
Full Year Exam: Local

Prerequisites: Naval Science II

Naval Science III emphasizes the challenges of leadership and qualities of the leader. This course examines ship construction, shipboard organization and administration as well as watch-standing and basic damage control. Students also study meteorology, weather, and astronomy as they affect naval operations worldwide. Basic mechanical, electrical and electronic theory is discussed as they relate to naval operations. Course includes the advanced study of navigation with practical applications using the maneuvering board.

NA 604 – NAVAL SCIENCE IV

1 credit Grades: 11-12
Full Year Exam: Local

Prerequisites: Naval Science III

This final year of Naval Science is a continued study of leadership with emphasis on decision making, management and ethical leadership. Organizational values, the components of a good decision, and the role of the leader are discussed in detail. Course concludes with challenges of the future to the U.S. Navy.

PHYSICAL EDUCATION

It is the policy of the Physical Education Department that students who have more than eight excused absences in a marking period complete a term paper. An excused absence is defined as: medical exclusion from doctor, home teaching, or Out of School Suspension. Students who owe less than eight classes should attend make-up classes. At the end of the marking period, if time restraints do not allow the student the opportunity to attend make-up classes then a term paper may be written. The term paper length is determined at the rate of one half page for every class owed, with a minimum of one page and a maximum of ten pages. Make-up physical education classes are held after school from 2:40-3:10 p.m. the last three days of the month. On the last day of the month, make-up classes are held in the morning from 6:50-7:20 a.m. There are additional classes held in the pool from 9 a.m.-1 p.m. during the January and June Regents weeks.

PE 101 – PHYSICAL EDUCATION 9/10

PE 102 – PHYSICAL EDUCATION 11/12

¼ credit Grades: All
Every other day Exam: Local

Prerequisites: None

Two full credits of Physical Education are needed to meet graduation requirements which can be obtained by earning ¼ credit each semester in grades 9 through 12. Students are not

Physical Education/Science

able to schedule multiple physical education classes to make-up failures until their senior year. Curriculum is composed of eight different units of instruction lasting 4-5 weeks each. One of the units each year will be a swimming unit for which 80% participation is required. Students who do not meet the swim requirement will be rescheduled for swimming.

PE 601 – OUTDOOR EDUCATION

¼ credit
1 Semester
Grades: 11 & 12
Exam: Local

Prerequisites: None

Outdoor Education is a physical education course in adventure activities. Students will work together cooperatively to reach goals. They will have the opportunity to experience new challenges in the way of low ropes courses, wall climbs, zip lines, trapezes, etc., with the support of classmates. Instruction will be given in preparation for field trips, which include: hikes, winter camp outs, white water rafting, horseback riding, mountain biking, rock climbs, and overnight canoe trips. Participation in at least one field trip is a requirement for the course. Failure to do so will result in failure as a quarter grade. There is a fee for some portions of this course.

PE 602 – EXERCISE PHYSIOLOGY

¼ credit
1 Semester
Grades: 11 & 12
Exam: Local

Prerequisites: None

This course is designed to introduce students to the basic components of health-related fitness. Students will be exposed to the risk factors of inactivity and the role of exercise in overall physical health. Topics of study will include, but are not limited to: the effects of aerobic exercise, lipid and cholesterol control, collateral circulation, exercise-induced vasodilators, peripheral adaptation in working muscle, importance of muscular strength and endurance, bone and joint health, obesity and metabolic disorders. Students will be given tools to design their own fitness programs based upon scientific data. Labs and practical experiences will be provided to supplement and reinforce the information presented in class. The class will meet in the weight room and a regular classroom.

PE 603 – LIFEGUARDING

¼ credit
1 Semester
Grades: 11 & 12
Exam: Local

Prerequisites: None

The American Red Cross Lifeguarding Course provides students with an opportunity to learn the skills and knowledge necessary to prevent, recognize, and respond to emergencies, and to provide care for injuries and sudden illnesses until advanced medical personnel arrive. Students will be prepared to obtain a lifeguarding job and will obtain all certifications

upon successful completion of the course while meeting the Physical Education requirement toward graduation. For this course, students will need to purchase a Lifeguarding manual for \$35.00, and there is a \$30.00 fee for all certifications.

SCIENCE

SC 101 – EARTH SCIENCE

1 credit
Full Year
Grades: All
Exam: Regents

Prerequisites: None

Earth Science is the comprehensive study of the planet Earth. The course is intended to expose students to a study of the process and concepts that sculpt our Earth and influence our environment. The course includes such topics as: the Earth's crust, the Earth's waters, mapping, destructive forces, constructional forces, and climate. The Regents Examination is mandatory for all students who satisfactorily complete the laboratory requirement for the course.

SC 102 – EARTH SCIENCE

1 credit
Full Year
Grades: 11 & 12
Exam: Local

Prerequisites: Core Biology I and Core Biology II, pass Living Environment

Earth Science is a comprehensive study of the planet Earth. The course is intended to expose students to a study of the process and concepts that sculpt our earth and influence our environment. The course includes such topics as: the Earth's crust, the Earth's waters, mapping, destructive forces, constructional forces, and climate. There is a laboratory requirement for this course. Students may sit for the Earth Science Regents Exam.

SC 101L – BILINGUAL/ESL EARTH SCIENCE

1 credit
Full Year
Grades: 11 & 12
Exam: Regents

Prerequisites: Core Biology I and Core Biology II

This course is the Earth Science Regents course with language support. The Regents Examination is mandatory for all students who satisfactorily complete the laboratory requirement for the course.

SC 101A – ACTIVE EARTH SCIENCE

½ credit
1 semester
Grades: All
Exam: Regents

Prerequisites: Earth Science

The students will study Earth Science Regents course in greater depth and will do laboratory work which will include higher order processing skills.

Science

SC 201 – HONORS BIOLOGY

1 credit
Full Year
Grades: 9 & 10
Exam: Regents

Prerequisites: Must meet Honors Course Guidelines

The Honors Biology class will encompass the same concepts as Biology, but the students will be given a more challenging experience to enhance his/her knowledge base. The Regents Examination is mandatory for all students who satisfactorily complete the laboratory requirement. This course has a weighted average of 1.05.

SC 203 – BIOLOGY (LIVING ENVIRONMENT)

1 credit
Full Year
Grades: All
Exam: Regents

Prerequisites: None

Students will understand and apply scientific concepts, principles, and theories pertaining to the living environment and recognize the historical development of ideas in science. Basic disciplines such as modern genetics, human physiology, modern evolution theory, ecology, and biochemistry are discussed. The Regents Examination is mandatory for all students who satisfactorily complete the laboratory requirement.

SC 205 – CORE BIOLOGY I

1 credit
Full Year
Grades: 9-10
Exam: Local

Prerequisites: None

This course is the Biology course offered over two years. All students must pass the Biology (Living Environment) course to graduate. There is a mandatory laboratory requirement is completed.

SC 205L – LEP CORE BIOLOGY I

1 credit
Full Year
Grades: 9-10
Exam: Local

Prerequisites: None

This is the Core Biology I course with language support.

SC 207 – CORE BIOLOGY II

1 credit
Full Year
Grades: All
Exam: Regents

Prerequisites: Core Biology I

This is the second year of the two-year Core Biology program. The Regents Examination is mandatory in June for all students who have satisfactorily completed the laboratory requirement for this course.

SC 207L – LEP CORE BIOLOGY II

1 credit
Full Year
Grades: All
Exam: Regents

Prerequisites: Core Biology I

This is the Core Biology II course with language support.

SC 208 – ACTIVE BIOLOGY

½ credit
1 semester
Grades: All
Exam: Regents

Prerequisites: Core Biology II or Biology course credit

The students will study the Biology Regents course in greater depth and will do laboratory work which will include high order processing skills.

SC 212 - PLTW MEDICAL INTERVENTIONS

See page 16

SC 301 – HONORS CHEMISTRY

1 credit
Full Year
Grades: All
Exam: Regents

Prerequisites: Must meet Honors Course Guidelines

The Honors Chemistry class will encompass the same concepts as Chemistry, but the student will be given a more challenging experience to enhance his/her knowledge base. There is a laboratory requirement for this class. The Regents Examination will be mandatory for all students who satisfactorily complete the laboratory requirement of the course. This course has a weighted average of 1.05.

SC 303 – CHEMISTRY

1 credit
Full Year
Grades: All
Exam: Regents

Prerequisites: 75 or above on the Biology & Earth Science Regents

Chemistry is the study of matter and how it can be changed by energy. The course requires analytical and quantitative skills. There is a laboratory requirement for the course. The Regents Examination will be mandatory for any student who satisfactorily completes the laboratory requirement.

SC 501 – AP CHEMISTRY

1 credit
Full Year
Grades: 11 & 12
Exam: AP

Prerequisites: Must meet Honors Course Guidelines

This course is equivalent to a first-year college chemistry course that includes lecture and laboratory activities. Students must take the AP Chemistry Examination at the completion of the course. The cost for this examination is \$86. There is a 1.10 weighted average for this course.

SC503 – COLLEGE BIOLOGY I

SC 505 – COLLEGE BIOLOGY II

½ credit each
Full Year
Grade: 12
Exam: Local

Prerequisites: Must meet Honors Course Guidelines

Note: Tuition cost is the student's responsibility

This is a two-semester, eight-credit course that introduces the student to modern biological concepts. The first semester includes: exploration of the Great Barrier Reef, microscope

and measurement, evolution, and diversity of life, cell structure and function, reproduction and development, and chemistry. The second semester includes: plant and animal anatomy and physiology, and genetics. There is a weighted average of 1.10 for this course. As part of the Syracuse University Project Advance Biology, tuition for this program is approximately \$1,000.

[SC 507 – AP PHYSICS](#)

1 credit Grades: 11 & 12
Full Year Exam: AP

Prerequisites: Must meet Honors Course Guidelines

It is also recommended that the student have completed Math B or Integrated Algebra II and Trigonometry

The first-semester of this course covers the concepts of classical physics from introductory mechanics through thermodynamics. Second semester covers the topics of wave motion, harmonic motion, sound, electricity, magnetism, optics, relativity, quantum theory and atomics, and nuclear physics. There is a weighted GPA for this course. Student must take the AP Examination in May and the fee for this exam is \$86. All students are mandated to take the Regents Physics Examination.

[SC 509 – COLLEGE GLOBAL ENVIRONMENT**](#)

1 credit Grades: 12
Full Year Exam: Local

Prerequisites: Must meet Honors Course Guidelines

Note: Tuition is the student's responsibility

Students explore the relationships between their local, urban, and suburban communities and the broad global context of environmental change. The class will understand the complex scientific and social perspectives behind environmental issues that make headlines everyday such as the relationship between energy and the environment. The class will also explore career opportunities in the fields of environmental science, engineering management policy and planning design. The class will have the opportunity to visit SUNY College of Environmental Science and Forestry's main campus and possibly one of its regional field stations in the Adirondacks. Tuition for the class is \$175. Financial support is available. Upon successful completion of the course, three SUNY ESF credits will be granted. There is a weighted average of 1.00 for this course.

[SC 601 – PHYSICS](#)

1 credit Grades: 11 & 12
Full Year Exam: Regents

Prerequisites: It is recommended that the student have completed Math B or Integrated Algebra II and Trigonometry.

Physics consists of four related areas:

1. Mechanics, including motion, forces, energy, and heat
2. Wave phenomena, including sound and light

3. Electricity, including static currents, magnetism, motors, and generators
4. Nuclear, including the atom, mass-energy conversions, and fusion

There is strong emphasis on laboratory work and the laboratory work is a requirement for the course. Due to the wide range of the material discussed, there is a need for problem solving ability as well as abstract thinking ability. The Regents Examination will be mandatory for all students who satisfactorily complete the laboratory requirement for the course.

[SC 603 – ENVIRONMENTAL SCIENCE A](#) [SC 603 – ENVIRONMENTAL SCIENCE B](#)

½ credit each Grades: 11-12
1 semester Exam: Local

Prerequisites: One Physical Science credit, one Living Environment credit, and one Science Regents credit

Environmental Science is an integrated science, one that draws from many fields, including Earth Science, Biology, and Chemistry. Environmental science is a project-based course that is divided into two parts: Environmental Science A and Environmental Science B. The student will receive ½ credit for each part of the course.

[SC 607 ES – EARTH SCIENCE AIS](#)

No credit Grades: All
1 Semester Exam: None

Prerequisites: None

This is a non-credit-bearing remedial course to prepare students for Regents Exams in January and June. The course may also be used as a support course for those students who have difficulty with a course or need lab assistance during the school year.

[SC 607 B – BIOLOGY AIS](#)

No credit Grades: All
1 Semester Exam: None

Prerequisites: None

This is a non-credit-bearing remedial course to prepare students for Regents Exams in January and June. The course may also be used as a support course for those students who have difficulty with a course or need lab assistance during the school year. It is recommended that students in Earth Science with a Core Biology background be scheduled for Earth Science AIS.

SOCIAL STUDIES

SS 101 – GLOBAL HISTORY 9 HONORS

1 credit Grade: 9
Full Year Exam: Local

Prerequisites: Must meet Honors Course Guidelines

This interdisciplinary course is based upon a humanities approach. Grade 9 Global Studies, Literacy, and English classes are linked so that students are engaged in rigorous, project-based instruction. Global 9 Honors encompasses the same general topics as Global History 9, but in an enriched setting. There will also be a major focus on the various types of academic writing within the Social Studies discipline. This is the first year of a two-year course which prepares students for the Global History Regents at the end of Global History 10. This course has a weighted credit of 1.05.

SS 102 – GLOBAL HISTORY 9

1 credit Grade: 9
Full Year Exam: Local

Prerequisites: None

This interdisciplinary course is based upon a humanities approach. Grade 9 Global Studies, Literacy, and English classes are linked so that students are engaged in rigorous, project-based instruction. The Global History program is a comprehensive study of global societies through the use of the social sciences of anthropology, archaeology, economics, geography, history, law, philosophy, political science, and sociology. Grade 9 will include the study of:

1. An introduction to Global History
2. Ancient World: Civilizations and Religion (4000 BC-500 AD)
3. Expanding Zones of Exchange and Encounter (500-1200)
4. Global Interactions (1200-1650)
5. The First Global Age (1450-1700)

SS 201 - GLOBAL HISTORY 10 HONORS

1 credit Grade: 10
Full Year Exam: Regents

Prerequisites: Must meet Honors Course Guidelines

Global History 10 Honors is a continuation of the Global History 9 Honors course. This course will cover the same topics as the Global History 10 course. However, this course is designed for the academically talented student and therefore the course work is more challenging. In addition, there will also be a major focus on the various types of academic writing within the Social Studies discipline. There is a weighted average of 1.05. The Global History course culminates with the Global History Regents at the end of the school year.

SS 202 – GLOBAL HISTORY 10

1 credit Grade: 10
Full Year Exam: Regents

Prerequisites: Global History 9

The Global History program is a comprehensive study of global societies through the use of the social sciences of anthropology, archaeology, economics, geography, history, law, philosophy, political science, and sociology. History 10 students must take the Regents Exam. Grade 10 will continue the Global History 9 curriculum and include the study of:

1. An Age of Revolutions (1750-1914)
2. A Half Century of Crisis and Achievement (1900-1945)
3. The 20th Century Since 1945
4. Global Connections and Interactions

SS 301 – US HISTORY & GOVERNMENT

1 credit Grade: 11
Full Year Exam: Regents

Prerequisites: Global History 10

In this course, students will learn about the structure and function of government. The course of study places emphasis upon the enhancement of critical thinking and problem-solving skills with the use of social science and interdisciplinary materials. The 11th grade Social Studies curriculum traces the evolution of American History from the origins and development of the Constitution to the present. The units of study are:

1. Introduction
2. Constitutional Foundations for the United States Democratic Republic
3. Industrialization of the United States
4. The Progressive Movement: Responses to the challenges brought about by Industrialization and Urbanization
5. At Home and Abroad: Prosperity and Cooperation
6. World in Uncertain Times: 1950 – present

SS 401 – ECONOMICS

½ credit Grade: 12
1 Semester Exam: Local

Prerequisites: US History & Government

Economics is one of the two senior Social Studies requirements in New York State. Economics is divided into five units: Introduction to Economics and Economic Systems, Business in the Free Enterprise System, the Measurement of Economic Activity, the Government and the Economy, and the United States and the World Economy. The course has been designed to meet the needs of students at all levels and provides all students with the economic knowledge and skills necessary to

function effectively as economic citizens of our society and the global community. This course satisfies the twelfth grade Economics requirement for New York State.

SS 402 – PARTICIPATION IN GOVERNMENT

½ credit Grade: 12
1 Semester Exam: Local

Prerequisites: US History & Government

The Government course is one of the two senior Social Studies requirements in New York State. The course focuses upon the study of contemporary and historic public issues to increase the student's awareness of their rights and responsibilities as a citizen. Fundamental to the course of study is that students will design, analyze, monitor, and discuss issues and policies. This course satisfies the twelfth grade Civics requirement for New York State.

SS 501 – AP US HISTORY

1 credit Grade: 12
Full Year Exam: AP

Prerequisites: Must meet Honors Course Guidelines

The AP course in U.S. History is designed to provide students with the factual knowledge and analytic skills necessary to deal critically with the challenges and materials in U.S. History. The course begins with the Age of Discovery and Settlement and chronologically examines American History through to the present. Students will be required to analyze and interpret primary sources including documentary material, maps, statistical tables, and pictorial and graphic evidence of historical events. Students must take the AP examination in May and there is a fee for this exam. College credit is granted based upon student performance on this examination and individual college policies. The course carries a weighted average of 1.10. Following the AP exam in May, students will prepare for the state Regents.

SS 502 – AP ECONOMICS

1 credit Grade: 12
Full year Exam: AP

Prerequisites: US History & Government and Teacher Rec.

The AP Macroeconomics course is designed to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Emphasis is given to the study of national income, price determination, the measurement of economic performance, economic growth, and international economics. Students will also examine the role of the government in using monetary and fiscal policies to influence levels of economic activity. This course focuses on standard 5 of the New York State Social Studies Standards. Students must take the AP examination in May and there is a fee for this exam. College credit is granted based upon student

performance on this examination. There is a weighted average of 1.10. This course satisfies the twelfth grade Economics requirement for New York State.

SS 503 – AP GOVERNMENT & US POLITICS

1 credit Grade: 12
Full Year Exam: AP

Prerequisites: Must meet Honors Course Guidelines

The AP course in United States Government and Politics includes five major units of study: The Constitutional Underpinnings of the United States Government, Political Beliefs and Behaviors, Political Parties and Interest Groups, Institutions and Policy Processes of National Government, and Civil Rights/Civil Liberties. It is expected that students will develop a thorough understanding of political processes and that they will be able to use specific information to critically evaluate general propositions about government and politics. Students must take the AP examination in May and there is a fee of \$83 for this exam. College credit is granted based upon student performance on this examination. This course focuses on standard 5 of the New York State Social Studies standards for Civics, Citizenship and Government. There is a weighted average of 1.10. This course satisfies the twelfth grade Civics requirement for New York State.

SS 601 – PSYCHOLOGY

½ credit Grade: 11 & 12
1 Semester Exam: Local

Prerequisites: None

The study of psychology involves five basic perspectives: humanistic, biological, behaviorist, cognitive, and psychoanalytic. Although these approaches are often presented as competitive, in reality they compliment one another. These five perspectives influence the content areas of psychological study, guiding most of the activities of contemporary psychologists. Within the philosophical framework, psychology enables us to direct our efforts toward the solution of immediate personal or social problems and/or the study and ultimate solution of basic scientific questions. The course topic areas include: perspectives on human behavior, principles of learning, cognitive processes, motivation, understanding personality, behavior disorders and therapy, intellectual measurement, and social psychology. The inquiry approach, emphasizing analysis and evaluation is utilized. The content areas are presented in relation to the five psychological perspectives.

SS 602 – INTERNATIONAL POLITICS

½ credit Grades: 11 & 12
1 Semester Exam: Local

Prerequisites: None

A selective synopsis of political development since World War

II, Sino-Soviet-American relations, Western European Politics, the intricacies and problems of the Middle East, the conflict in Northern Ireland, nationalism in Latin America, and an overview of socioeconomic developments in Africa will be discussed in varying degrees. Guest speakers, videotapes, current manuscripts, and political journals will be utilized in order to enable the student to create an objective frame of reference for analyzing world politics today.

SS 603 – FUTURISTICS

½ credit
1 Semester
Grades: 11 & 12
Exam: Local

Prerequisites: None

The course of study is designed to challenge the student's ability to focus upon political, socioeconomic, and environmental issues that will be prevalent in the next century. Topics to be presented may include but are not limited to: population complications, world hunger, Third Wave, age of computer, communications/manufacturing, terrorism, pollution, human rights, space exploration, bioethics.

SS 604 – HOLOCAUST

½ credit
1 Semester
Grade: 11 & 12
Exam: Local

Prerequisites: None

This course is designed to develop an understanding of the events that took place in Nazi Germany leading up to and including the Holocaust. Students will examine the appeal of Adolph Hitler in his rise to power, the guilt imposed upon Germany after World War I, the causes of World War II, anti-Semitism, prejudices, forms of discrimination and Hitler's Final Solution - the atrocities of the concentration camps.

SS 605 – AFRICAN AMERICAN HISTORY

½ credit
1 Semester
Grade: 11 & 12
Exam: Local

Prerequisites: None

African American History is offered to students in their junior or senior year of high school. This one semester course is the study of African Americans in the United States from the 1500's to the present. The course is designed to present an overview of African American History by offering students an opportunity to study the historical, cultural, political, economic, and literary contributions of African Americans to the United States.

SS 606 – GLOBAL HISTORY AIS

No Credit
1 Semester
Grade: 11 & 12
Exam: Local

Prerequisites: None

This is a non-credit-bearing remedial course to prepare students for Regents exams in January and June. The course may also be used as a support course for those students who have difficulty with the Global History course and need additional assistance during the school year.

SS 607 – US HISTORY AIS

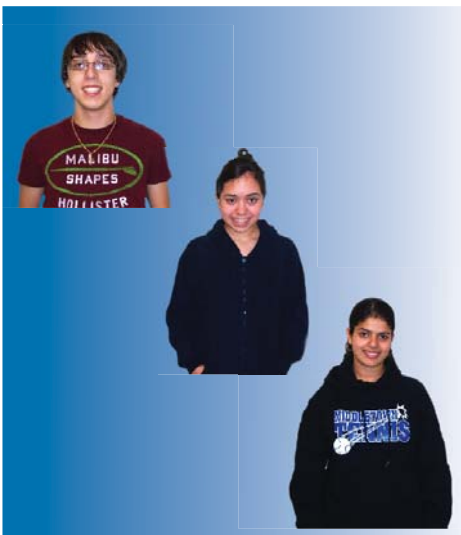
No Credit
1 Semester
Grade: 11 & 12
Exam: Local

Prerequisites: None

This is a non-credit-bearing remedial course to prepare students for Regents exams in January and June. The course may also be used as a support course for those students who have difficulty with the US History course and need additional assistance during the school year.

Good plans shape good decisions. Plan for your future today!

New to the high school? Here's advice from MHS Seniors:



"Start working hard now. You don't want to go through your freshman, sophomore, and junior year slacking and have to catch up senior year. Also, you have to work hard in school, and always do your best, but find something you enjoy, maybe an extra-curricular you would not have normally do. You have to do something to better yourself as a person, not just academically."
-Anthony Critelli

"You've got to try things all of the time, you can stay in your comfort zone as long as you want but if you don't leave it you're never going to find new experiences."
-Linda Baergas

"When I was a freshman my english teacher Mrs. Geiger told me, today is the first day of your future. Because of her I have a future ahead of me."
-Navjot Kaur



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