Medina High School

Academic Bulletin and Course Descriptions
2019 – 2020
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Medina High School
Two Mustang Drive
Medina, New York 14103

High School Office  585-798-2700 Option 1
Counseling Office  585-798-2885

Mr. Michael Cavanagh, Principal
Mr. Joel Reed, Assistant Principal

School Counselors:
  Ms. Audralee Doll
  Mrs. Sarah Ha
  Mr. Thomas Robinson

Psychologists:
  Mrs. Ann Marie Martillotta

Secretary:
  Mrs. Lee Hiller

Medina District Office
Medina Central School District
One Mustang Drive
Medina, New York 14103

District Office  585-798-2700

Mr. Mark Kruzynski, Superintendent

Board of Education
Mr. David Sevenski, President
Dr. Ann Webster Bunch, Vice-President
Mrs. Lori Draper
Mr. William Keppler
Mrs. Brenda Lindsay
Mrs. Arlene Pawlacyk
Mrs. Wendi Pencille
Equal Opportunity

In accordance with Title IX and Section 504 of the Educational Amendments of 1972, the Medina Central School District does not discriminate on the basis of sex, race, color, national origin or handicapping condition in the educational programs or activities that it operates. This policy of non-discrimination includes the following areas: recruitment and appointment of employees; employment pay and benefits; counseling services for students; access by students to educational programs, course offerings and student activities. The district official responsible for the coordination of activities relating to compliance with Title IX and Section 504 is the Superintendent of Schools. This official will provide information, including complaint procedures to any student or employee who feels that the district or its officials may have violated his of her rights under Title IX or Section 504.

Academic Bulletin

Introduction

The Academic Bulletin has been designed to assist students in planning their high school program and in selecting courses to help them reach their goals. We strongly encourage students and parents to become familiar with this document and to use it as a resource.

Course offerings for the school year have been reviewed carefully by teachers, counselors and administrators and are designed to meet the needs of students at Medina High School. Elective courses that are listed in this bulletin will be offered where sufficient student interest and availability of staff exist.

Students should select courses in accordance with their abilities and interests based on the course descriptions and pre-requisites and their personal, educational and career goals. The school counselors will meet with each student to review their academic progress and to assist the student in selecting courses.

Academic Assistance for Students

Medina High School operates a 10th period class every day following the regular school day. Transportation is provided at the end of the period. Students are welcome to meet with any of their teachers during that time for extra help.

Teachers may require a student to stay for this period if they owe homework, need to make up a test or are failing. Failure to comply with this request may result in a disciplinary action.

Academic Intervention Services (AIS)

Students are assigned to an Academic Intervention Service (AIS) class in the areas of English, Social Studies, Mathematics, and Science based on: failing or low score on a NYS exam (8th grade Assessment or a Regents Exam in the subject area), poor performance on exams, history of failure in the subject area and or teacher recommendation due to low grades. Students remain in AIS classes until they show significant progress in class and/or pass a required exam.
Skills for Success  (grades 8 & 9)

Skills for Success is a transition program designed for students who may need some extra academic and/or social/emotional support during their 8th and 9th grade years. Students learn and apply strategies for success in higher education, future employment and lifelong learning. Major topics include setting academic, career and personal goals; effective communication; study strategies; critical thinking; self-discovery; learning styles and mastering core competencies. Students will also develop educational and career plans. (1/2 credit course)

Response to Intervention (RTI)

Students are referred for evaluation and intervention planning based on very poor grades or failing multiple academic subjects or tests and/or behavior that inhibits the student’s ability to be successful. RTI referrals occur when the student is not being successful with the regularly used interventions teachers employ in the classroom. Initial RTI meeting include data and documentation to help determine problem areas and are initiated by an administrator with involvement from teachers, the counselor, and often the school psychologist. Parents and students are invited to attend RTI meetings. The intention is to understand the problem and identify interventions to address it. Follow up meetings are held every 6 – 8 weeks to evaluate the success of the interventions or make new recommendations for different or more intensive interventions. This process continues until the student is experiencing success or the need is determined for referral to other supports beyond those all students receive.

After School Alternative Program

A small number of students who are at very high risk for dropping out may be recommended by administrators for the After School Alternative Program which utilizes on-line high school classes that the students take for required credit. The hours of this program are from 3-5 p.m. Monday through Friday in the computer lab at the high school. This is a small classroom setting with two teachers available to help. Coursework is individually paced and courses are added based on counselor recommendation for what the student requires to graduate. The student works on any of these prescribed classes in the order he/she chooses, and completes them as quickly as they choose. Credit is awarded when coursework is complete.

Advanced Placement

Advanced Placement (AP) courses are a valuable experience at a reasonable price. Whether or not students receive college credit, they still gain the skills needed to succeed at the college level. AP grades are weighted and are included in the student’s grade point average and class rank.

AP courses are taught at a college level and culminate with national exams in May. The exams are developed by the College Board and are graded on a 1 to 5 scale with any score of 3 or above being eligible for possible college credit (determined by the college). AP students are responsible for paying for the cost of the exam with payment due in the fall. In cases of financial need, there is a fee reduction program available. Students who are enrolled in an AP course are required to take the exam in May in order to receive credit for the course.

The school district does provide textbooks for the course. Students who wish to highlight the text must purchase the book through the school at a cost of $40 to $75. Any student may enroll in an AP course but should consider that these are college level courses and require a considerable commitment of time in regards to the workload. Some of the courses require that
some assignments be completed during the summer prior to the beginning of the course. Daily assignments are the norm in all of the AP courses. Students who take an AP course in lieu of a required general education course will still be responsible for taking any New York State Regents’ Examination that is a requirement of the course. Currently this applies to AP World History in lieu of Global 10 and AP American History in lieu of United States History and Government. In addition to taking the May AP exam, students in these courses must also take the June Regents’ Exam.

Currently, Medina High School offers the following AP courses:

- English Language & Composition (11th) Mrs. Dickhut
- (ENG110) English Literature & Composition (12th) Mrs. Dickhut
- Calculus Mr. Benson
- (BIO102) Biology Mr. Sherman
- (CHE111 & CHE113L) Chemistry Dr. Voss
- World History (10th) Mrs. Sentiff
- American History (11th) Mr. Bensley
- Government Mr. Bensley
- Music Theory Mr. Rath

Advanced Study

Medina High School has articulation agreements with Genesee Community College, Niagara County Community College, Niagara University, and Syracuse University that allow us to offer several classes for both high school and college credit. These are called Advanced Study (AS) classes and they are college classes taught at the high school by high school faculty using the college textbook and following the college curriculum. To earn college credit, the student must register with the college at the beginning of the course and pay a reduced tuition fee (which varies from $50 to $75 per credit). Medina currently offers the following AS courses:

<table>
<thead>
<tr>
<th>GCC Courses:</th>
<th>NCCC Courses:</th>
<th>Syracuse Univ. Courses:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(CEP 101) Career and Educational Planning</td>
<td>Mrs. Lindke</td>
<td>(FRN 203) French 4</td>
</tr>
<tr>
<td>(MAT 129) College Statistics</td>
<td>Mr. Benedict</td>
<td>(FRN 204) French 5</td>
</tr>
<tr>
<td>(CIS 125) Programming &amp; Problem Solving</td>
<td>Mrs. Lindke</td>
<td>(SPA 203) Spanish 4</td>
</tr>
<tr>
<td>(ENG 101) College Comp.</td>
<td>Mrs. Jones</td>
<td>(SPA 204) Spanish 5</td>
</tr>
<tr>
<td>(CIS 116) Microcomputer Applications</td>
<td>Mrs. Lindke</td>
<td></td>
</tr>
<tr>
<td>(MAT 140) Pre-Calculus</td>
<td>Mr. Benson</td>
<td></td>
</tr>
<tr>
<td>(SPE 108) Public Speaking</td>
<td>Mr. Hellwig</td>
<td></td>
</tr>
<tr>
<td>(MAT136) Algebra 2/Trigonometry</td>
<td>Mr. Benedict</td>
<td></td>
</tr>
</tbody>
</table>
# Graduation Requirements

## NYS Diploma Requirements

<table>
<thead>
<tr>
<th>Required Credits</th>
<th>Regents Diploma</th>
<th>Regents Diploma w/ Advanced Designation</th>
<th>Regents Diploma w/ Advanced Designation and Mastery in Math.</th>
<th>Regents Diploma w/ Advanced Designation and Mastery in Science</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>22 Credits</strong></td>
<td>4 ELA</td>
<td>4 ELA</td>
<td>4 ELA</td>
<td>4 ELA</td>
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<tr>
<td></td>
<td>4 Social Studies</td>
<td>4 Social Studies</td>
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<tr>
<td></td>
<td>3 Science</td>
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<td>3 Science</td>
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<tr>
<td></td>
<td>3 Mathematics</td>
<td>3 Mathematics</td>
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<td>3 Mathematics</td>
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<td>2 PE</td>
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<td>1 LOTE</td>
<td>3 LOTE</td>
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<td>1 Art</td>
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<td></td>
<td>½ Health</td>
<td>½ Health</td>
<td>½ Health</td>
<td>½ Health</td>
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<td></td>
<td>3 ½ Elective</td>
<td>1 ½ Elective</td>
<td>1 ½ Elective</td>
<td>1 ½ Elective</td>
</tr>
<tr>
<td><strong>5 Exams</strong></td>
<td>✓ 1 ELA</td>
<td>✓ 1 ELA</td>
<td>✓ 1 ELA</td>
<td>✓ 1 ELA</td>
</tr>
<tr>
<td></td>
<td>✓ 1 Math</td>
<td>✓ 3 Math</td>
<td>✓ 3 Math</td>
<td>✓ 3 Math</td>
</tr>
<tr>
<td></td>
<td>✓ 1 Science</td>
<td>✓ 2 Science</td>
<td>✓ 2 Science</td>
<td>✓ 2 Science</td>
</tr>
<tr>
<td></td>
<td>✓ 1 Social Studies Global History &amp; Geography OR US History &amp; Government</td>
<td>✓ Global History &amp; Geography</td>
<td>✓ US History &amp; Government</td>
<td>✓ Global History &amp; Geography</td>
</tr>
<tr>
<td></td>
<td>✓ 1 Additional Examination or CDOS</td>
<td>✓ Checkpoint B LOTE OR 5 unit sequence in Arts OR CTE</td>
<td>✓ Checkpoint B LOTE OR 5 unit sequence in Arts OR CTE</td>
<td>✓ Checkpoint B LOTE OR 5 unit sequence in Arts OR CTE</td>
</tr>
<tr>
<td><strong>Required Regents Score</strong></td>
<td>65% or higher on all 5 required exams.</td>
<td>65% or higher on all 8-9 required exams.</td>
<td>65% or higher on all required exams, except math.</td>
<td>65% or higher on all required exams, except science.</td>
</tr>
</tbody>
</table>

**Students can receive honors on a Regents diploma or Regents with advanced designation diploma by receiving an overall average score of 90 or above on all required Regents exams.**

**Students will be scheduled with the presumption that they will obtain an Advanced Regents Diploma.**

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**Career Study**

Career Study Opportunities have been developed over the past 20 years to help students explore their career options and their own interests and career goals. Students may participate in organized exploration activities in school and are expected to work on career exploration outside of school as well in order to further their career knowledge. Students are encouraged to seek career counseling from their counselors, teachers, parents and the business community.
General

- Many components of a Career Study Portfolio may be saved in the student’s CHOICES account. Students should keep a folder for any printed material such as letters of recommendation, interview evaluations, etc. They will also be encouraged to do as much career exploration as possible.

- CHOICES 360 is an online service for students to do and save career exploration and research. It can be accessed at choices360.com. Students should see or email their counselor for their set up and login information.

- Counselors will encourage and support student progress. They will meet with students at least once a year for academic and career counseling, to discuss student plans and guide and assist students in their career exploration.

Course Requirements for Students

The Medina High School Policy states that:

1. **Students must schedule for six classes plus PE**, and must have six classes plus PE on their schedule for the entire year.

2. The following count as a class, provided this meets daily: Yearbook, Independent Study or a tutoring assignment. Students must be scheduled for six periods plus PE and must be working toward earning at least 6 credits. If a student is taking three Advanced Placement courses, one of which has an extra lab, that student will only be required to take five classes. Any student taking two classes that have extra labs, e.g., Science and Math, can count those labs as one class period and, therefore, will only be required to take five classes.

3. No student will be allowed to add a class after five weeks from the beginning of the class. **Except in extenuating circumstances, no student will be permitted to drop a course, after the first two weeks of instruction.** Therefore, if a student has the minimum six classes plus gym and wishes to drop a class, it will not even be considered after the five-week period.

4. Juniors and seniors can be released from school for work if it is verified that the student is working during the specified release time. This can occur at the beginning, middle or end of the school day. The student is still required to take the mandatory six classes plus gym.

5. An exception to the six classes plus gym policy can be granted for health reasons, pregnant or parenting teens or for any other exceptional situation as determined by the building administrator.

Credit by Examination

All students have the option of achieving 6.5 credits by examination. To do so they must:

1. Apply in the guidance office by October 15th for a fall or full year course or by March 1st for a spring course

2. Pass a Regents’, proficiency or other state-approved final exam with at least a score of 85

3. Pass an oral test or complete a major project as established by the department chairperson and approved by the principal.

Note: In the case of laboratory sciences (Earth Science, Biology, Chemistry, and Physics), the major project must be the required number of laboratory sessions.
Course Descriptions

English Language Arts

ENG1513 – English 8
40 weeks

English 8 students will explore readings in mythology and folklore, drama, mystery, non-fiction, fiction and poetry. In addition, students will write a research paper, study vocabulary, practice grammar, and prepare for the NYS English Language Arts Assessment.

ENG1163 - English 9 Regents
40 weeks
1 credit

Students in English 9 will read several major literary works including To Kill a Mockingbird, Romeo and Juliet, and The Odyssey. Students will also explore various short stories, poetry, fictional selections, and non-fiction. Grammar will be taught in the context of these readings. In addition, students will produce a research paper.

ENG1263 - English 10 Regents
40 weeks
1 credit

Students in tenth grade English read and study a wide variety of texts, including fiction, nonfiction, poetry, and drama. Primary texts include The Hunger Games, Man’s Search for Meaning, and Macbeth. As well, students occasionally study film as literature. In the spring of their sophomore year, students write a four page, research-based persuasive paper about a school-approved topic, though the list they choose from is cross-curricular, broad in both topic and theme. This paper provides students practice with the kind of argumentative writing they must complete on the NYS Regents exam the following year. Writings throughout the year vary (creative, analytical, argumentative, and interpretive).

ENG1363 - English 11 Regents
40 weeks
1 credit

English 11 is a full year course based in American Literature. Students read and study a variety of fiction and nonfiction. Students also write a variety of compositions: argumentative essays, literary essays, short research papers, and creative pieces. To pass the course, students will be expected to complete a number of reading and writing tasks. Students will take the Common Core Regents English Exam by the end of junior year and must pass it to be eligible for New York State graduation from high school. Passing the Common Core Exam does not guarantee passing English 11.

ENG1933 - Advanced Placement (AP) Language and Composition
40 weeks
1 credit

Prerequisite: A grade of at least 90 in English 10 and teacher recommendation

AP Language is taken in lieu of English 11. Working within the framework of American literature, students will interpret and analyze the rhetorical arguments used in a variety of nonfiction selections, which includes political speeches, letters, personal
essays, opinion pieces, and memoir; some fiction (short stories and at least one novel), one play, and several collections of thematically-linked poems; visual texts, including photography, paintings, advertisements, and film (documentaries and docu-dramas). AP students may possibly take the Common Core (Regents) exam in January instead of June; they are also required to take the AP exam in May.

ENG1411 - College Prep English
20 weeks
½ credit

College Prep English is a one-semester course for 12th grade students. Students will study advanced composition and language usage and they will read, study, and write about several works of literature. In lieu of a final exam, students will be required to read one work independently, to be chosen from an approved list, and write a final paper using the research methods from their semester study. Any student who is not scheduled in Advanced Placement English or English 12 must take this course to fulfill half of their senior English requirement.

ENG1431 - Creative Writing
20 weeks
½ credit

Creative Writing is a one-semester elective course that may be taken to complete ½ of the 12th grade English requirement. This course includes a workshop-style writing experience using a variety of genres with teacher and peer feedback. The course is creative-writing intensive, so students must have a willingness to work hard, a willingness to share their work, and a willingness to try new styles of writing not related to essays. A final project which includes new work written during the last month of the course is required in place of a final exam. Students will also be required to read a book or two during the course as per teacher requirement.

ENG1941 – Advanced Study (AS) Public Speaking
20 weeks
½ credit
Available to students in grade 11 with instructor approval
GCC course: SPE 108 – 3 credit hours ($)
Students will receive 3 college credits with a grade of C or better AND by paying tuition ($)
Students are not required to pay tuition to take the course

Public Speaking is a one-semester college level elective course that may be taken to complete the 12th grade English requirement. Students will gain confidence speaking in front of a group, leading group discussions, and debating. Juniors may take this course to earn an extra ½ credit in English, but are still required to earn a full credit of English as a senior.

ENG1951 – Advanced Study (AS) College Composition
20 weeks
½ credit
Available to students in grade 11 with instructor approval
GCC course: ENG 101 – 3 credit hours ($) Students will receive 3 college credits with a grade of C or better AND by paying tuition ($).
Students are not required to pay tuition to take the course

This course is a one-semester college level course that focuses primarily on writing. Students use the college textbook The College Writer to supplement their learning as they complete narrative, expository, and persuasive essays. They also read a variety of instructor-provided nonfiction texts. The course concludes with a research-based persuasive essay and a presentation. College Composition is a general education requirement at most colleges, and will provide students a solid
foundation to improve their writing and research skills. Essay topics throughout the semester are student selected. Juniors may take this course to earn an extra ½ credit in English, but are still required to earn a full credit of English as a senior.

ENG1461 – Journeys in English
20 weeks (Teacher recommendation required)
½ credit

Journeys is a half-year senior English class that continues to build on the skills necessary for college, while also helping students to explore secondary education opportunities. Students will read a variety of fiction and non-fiction for understanding and analysis. They will also continue to work on writing skills through responsive pieces as well as research-based assignments.

ENG1453 - English 12
40 weeks (Teacher recommendation required)
1 credit

This is a full-year course that includes a broad range of literary material, including a major playwright and at least one novel. Continued composition work and grammar are also included. A “Senior Paper” of about 1,000 words will be generated on a topic to be determined in consultation with the classroom teacher. This is a small class that is reserved for students who did not pass American Literature in their junior year or who have been recommended by their teacher.

ENG1943 - Advanced Placement (AP) English Literature and Composition
40 weeks
1 credit

Niagara University Course ENG110 – 3 credit hours ($)

AP English Literature and Composition is a senior elective full year course designed to sharpen reading and writing skills, covering British and American literature from the 16th century to modern day. The course covers poetry, plays, short stories and novels. Writing assignments range from informal pieces, timed essays, persuasive literary essays, creative pieces, and those based on modeling style, diction, detail, syntax, and tone. Students learn to be concise and cogent in their language and work on advanced composition skills. Emphasis is placed on writing ideas in order to clarify them. A literary research paper is required in the last quarter. This course is strongly recommended for any student who is preparing to major in English or the humanities in college. Students are required to take the AP exam presented by the College Board in May.

Mathematics

MAT3513 Math 8
40 weeks
1 credit

Prepare students for NYS Math 8 Assessment given in the spring. Topics will include many forms of algebra including equations, combining like-terms, algebraic geometry and right triangle problems. Problem solving and word problem interpretation skills will be emphasized. Additional topics include transformations, functions, volume, and graphing lines.

MAT3143 - Algebra A
40 weeks
1 credit

This is the first course in a two year program toward successful achievement on the commencement level New York State Regents Algebra 1. Students are placed into this class based on district criteria. Students will begin the study of Algebra 1 Regents topics, which focus on the study of mathematical functions.
MAT3163 – Algebra 1
40 weeks
1 credit
Prerequisite: Successful completion of Math 8

This course is designed to prepare students for the commencement level Common Core Algebra 1 Regents Exam. The course is a study of Mathematical Functions using topics in algebra, analytical geometry and statistics to explore, analyze and evaluate linear, exponential, piecewise and other related functions in a variety of real world situations. Students will take the Common Core Algebra 1 Regents Examination in June.

MAT3213 – Mathematical Applications
40 weeks
1 credit
Prerequisite: Algebra 1

This course uses math to solve real world problems. Students will develop and employ problem solving strategies as they apply math skills to authentic scenarios. Math skills include: Algebra-linear, quadratic, and other function modeling, rates of change, solving equations, fractions, geometric applications, Geometry-proportions, Pythagorean and other relationships, polygons, trapezoidal rule, Trigonometry-right triangles, Law of Sines/Cosines, function modeling.

MAT3223 – Geometry
40 weeks
1 credit
Prerequisite: Successful completion of Algebra and a passing grade (65+) on the Algebra 1 Regents’ exam

Geometry is a state-developed curriculum that includes geometry and algebraic applications of geometry. The course includes a major unit on Euclidean Geometry. Students will take the Common Core Geometry Regents’ exam in June.

AIS for Math (no credit)
Students remain in AIS classes until they show significant progress in class and/or pass a required exam.

Students are assigned to an Academic Intervention Service (AIS) based on district criteria.

MAT3373 – Advanced Study (AS) Algebra 2
40 weeks
1 credit
Prerequisite: Successful completion of Geometry and a passing grade (65+) on the Geometry Regents’ exam
GCC course MAT 136 – 3 cr. Hours ($) Students will receive 3 college credits with a grade of C or better AND by paying tuition ($) Students are not required to pay tuition to take the course

This course is a state-developed curriculum continuing the study of Algebra and Geometry with an emphasis on Functions. Topics include Transformational Geometry, Trigonometric functions and an expansion of Probability and Statistics. Students will take the Algebra 2 Common Core Regents’ examination in June.
MAT3933 – Advanced Study (AS) College Statistics
40 weeks
1 credit
Prerequisite: Successful completion of Algebra 2
GCC course MAT 129 – 3 credit hours ($) Students will receive 3 college credits with a grade of C or better AND by paying tuition ($) Students are not required to pay tuition to take the course

Statistics is gathering, organizing and interpreting information (data). We will talk about different ways to gather data and different types of studies. We will also use technology to organize data in charts and graphs. We will also work with different ways to analyze the data that has been collected and how to make decisions concerning our data. A final project of your choice will culminate the year using all the above topics.

MAT3943 – Advanced Study (AS) Pre-Calculus (Math 12)
40 weeks
1 credit
Prerequisite: Successful completion of Algebra 2
GCC course MAT 140 – 4 credit hours ($) Students will receive 4 college credits with a grade of C or better AND by paying tuition ($) Students are not required to pay tuition to take the course

The purpose of this course is to introduce and teach standard material on Algebra, Geometry, Trigonometry and Elementary Functions while including Calculus-oriented examples. Also included is a unit in Calculus of Polynomials. Graphic calculator use is emphasized throughout the course with TI-84 being the preferred calculator. Laboratory activities emphasizing real-world applications are included in most units.

MAT3963 - Advanced Placement (AP) Calculus
40 weeks
1 credit ($)
Prerequisite: AS Pre-Calculus

Topical outline includes: review and extension of analytic geometry, differential calculus of algebraic functions, applications of differential calculus, integral calculus of algebraic functions, geometric and physical applications of integration, definition and basic properties of limits and continuity. Graphic calculator use is emphasized throughout the course with TI-84 being the preferred calculator. The Advanced Placement exam in Calculus is mandatory.

MAT3363 - Financial Math
40 weeks
1 credit
Prerequisite: Two Math credits and a passing grade on the Algebra 1 Common Core Regents exam

Topics covered include investing, credit, budgeting and other topics that are useful to help individuals be financially self-sufficient in society. This is a professional type of Math that relates to business and involves upper level financing concepts, stock market, computer application and exponential growth. This course may be used as the third Math credit for students who do not plan to prepare for the Algebra 2 exam. This course is taught by the Business Department.
Science

SCI4513 Physical Science 8
40 weeks

Physical science is a full year course that meets five days a week. The course is designed to develop scientific literacy skills and scientific methodologies. Physical science is a survey of chemistry and physics that integrates the study of matter and how it changes with the study of matter and motion. Lab activities and investigations are incorporated regularly into classroom time. At the conclusion of the course, students will prepare for the 8th grade intermediate science exam which assesses science skills and scientific literacy.

SCI4263 - Regents: The Living Environment
40 weeks
1 credit
Prerequisite: Satisfactory completion or enrollment in Integrated Algebra

The Living Environment course provides a general approach to basic biological principles, focusing on biological systems with a more extensive understanding of selected areas. Five class sessions plus two to three laboratory classes are held each week. Satisfactory completion of all laboratory assignments and a written report for each laboratory experience are required before the student is admitted to the Living Environment Regents examination.

SCI4173 – Regents Earth Science: The Physical Setting
40 weeks
1 credit
Prerequisite: Satisfactory completion or enrollment in Common Core Algebra

Earth Science: The Physical Setting is an investigative-approach laboratory course. Areas of investigation include: The Earth’s model, the Earth in space, the Earth’s weather, and the surface of the Earth and the processes affecting its change. Five class sessions are held each week with an additional two to three laboratory classes each week. Students must complete laboratory assignments before they are admitted to the Earth Science Regents examination.

SCI4363 - Regents’ Chemistry: The Physical Setting
40 weeks
1 credit
Prerequisite: Successful completion of Integrated Algebra/Algebra 1 completed or enrolled in Geometry

This course presents a modern view suitable for pupils with a wide range of skills and abilities. The course provides the basic principles of Chemistry together with their related facts. The principles are basic to man’s understanding of his environment. Five class sessions are held each week with an additional two to three laboratory classes. Students are required to satisfactorily complete laboratory exercises before they are admitted to the Chemistry Regents examination.

SCI4553 – Forensic Science
40 weeks
1 credit
Prerequisite: Successful completion of Two Science Credits and 1 Science Regents Exam

Forensic Science is “how science helps solve crimes”. This course introduces students to the techniques of forensic chemistry, particularly as they relate to crime scene investigation and ongoing analysis of evidence obtained after a crime is committed.
The course involves the basic chemistry concepts needed to solve problems in forensic science and illustrates the specialized applications of forensic science through case studies and laboratory methods. This course focuses on the collection, identification and analysis of crime scene evidence. Emphasis will be placed on the methods that link suspect, victim, and crime scene. Laboratory exercises will include finger printing, handwriting analysis, ballistics, blood typing, hair and fiber examination, and DNA analysis. Case studies and current events will be explored.

**SCI4473 – Regents Physics**
40 weeks
1 credit
Prerequisite: Successful completion of Algebra and Geometry, concurrent enrollment in Algebra 2

Regents Physics is an introductory course with emphasis on the following topics: kinematics, dynamics, momentum/energy, electromagnetism, waves, and modern physics. Five class sessions are held each week with an additional two or three laboratory classes which emphasize student designed experiments. **Successful completion of laboratory work is required before admission to the Physics Regents examination.**

**SCI4933 - Advanced Placement (AP) Biology**
40 weeks, 1 credit ($)
Niagara University Course: BIO 102 – 3 Credit Hours ($)
Prerequisite: Successful completion of or enrolled in Regents Chemistry.

AP Biology is a comprehensive study of biology including Four Big Ideas: Evolution, Cellular Processes, Genetics and Interactions. This course is designed to offer juniors or seniors the opportunity to pursue a college level study of biology while in high school, and to experience comprehensive laboratory exercises. **An Advanced Placement Exam prepared by the College Board is given in May at the end of the course and is mandatory.** Successful completion of this exam MAY lead to college credit or advanced placement at the college of your choice. (Students may also register for Niagara University credit for BIO 102)

**SCI4963 - Advanced Placement (AP) Chemistry**
40 weeks, 1 Credit ($)
Niagara University Course: CHEM 111 & CHEM 113L – 4 Credit Hours ($)
Prerequisite: Regents Chemistry

AP Chemistry is a college level course in inorganic chemistry recommended for students who plan to continue the study of chemistry, pharmacy, engineering, medicine or other technological disciplines. Emphasis is placed on the refinement of quantitative problem solving as well as the ability to write about and discuss chemical theory. **Students electing this course must take the College Board Advanced Placement Chemistry examination in May.** Successful completion of this exam MAY lead to college credit or advanced placement at the college of your choice. (Students may also register for Niagara University credit for CHEM 111 & CHEM 113L)

**Social Studies**

**SOC2513 Social Studies 8**
40 weeks

Eighth grade Social Studies is a continuation of seventh grade coursework. In this course, students will become acquainted with the five New York State Social Studies Standards and learn about American politics, economics, and society from
Reconstruction through the present. Attention is paid to student preparation, organization and responsibility, with emphasis on preparing students for Regents level courses.

SOC2163 - Global History and Geography 9 Regents
40 weeks
1 credit

Global History and Geography is a two-year course that explores world history. This course explores the dawn of early man in the Paleolithic Era, the development of the first civilizations, the examination of classical societies, and the expansion of world-wide trade networks and their global impact. The goal of this course is to explore the world we live in, looking at the world’s geography and its impact on people and cultures, as well as beliefs, economics, and political systems.

SOC2263 - Global History and Geography 10 Regents
40 weeks
1 credit

This course provides students with the opportunity to study the history of other nations and their cultures within a framework that is designed to develop a global perspective. In tenth grade students will study major events in world history from 1750 to the present. In addition to geography, students will study issues and themes from multiple perspectives and make global connections and linkages that lead to in-depth understanding. **The course concludes with the New York State Regents Exam in Global History & Geography, which is a requirement for graduation.**

SOC2913 - Advanced Placement (AP) World History
40 weeks
1 credit (AP class $)

**Prerequisite:** A grade of at least 90 in Global History and Geography 9 and teacher recommendations from English and Social Studies.

This AP World History course is the equivalent to an introductory college course. It focuses on developing students' understanding of world history by studying major historical events from approximately 8000 B.C. to the present. In May, students enrolled in the AP program take the mandatory Advanced Placement exam and MAY earn college credit as a result. Upon completion of this course, students will then review for the **Global Regents Exam in June, which is a requirement for graduation.**

SOC2353 - United States History and Government
40 weeks
1 credit

The eleventh grade U.S. History and Government course begins with a required ten-week unit on the Constitution as the foundation for America's democratic republic. The in-depth study of the Constitution includes an emphasis on the principles of federalism, separation of powers, constitutional flexibility and civil and criminal liberties. The remainder of the course focuses on the history of the United States from 1789 to the present. Included in the student's studies are units on United States Economic History, Foreign Policy and the struggle to achieve equal rights for all Americans. **The course concludes with the New York State Regents Exam in U.S. History and Government.**
SOC2933 - Advanced Placement (AP) American History

40 weeks
1 credit ($)

Comparable to an introductory college course, this course is a chronological study of American History from 1600 to the present with an emphasis on differing interpretations of major events and trends. The Advanced Placement program affords high school students the opportunity to gain college credit and advanced standing in selected colleges. In May, students enrolled in the AP program take the Advanced Placement exam. After taking the mandatory AP examination in May, the student will begin to review for the Regents exam in U.S. History and Government, which is required for graduation. For this reason, it is recommended that juniors enroll in the course. Whether or not you get college credit and/or advanced placement is determined by the score you receive on the AP test and the decision of the college of your choice.

SOC2451 - Economics and Economic Decision Making

20 weeks
½ credit

This course is a one semester course that compares the American economic system with other economies. An emphasis is placed on the intricacies of the U.S. economy that include a close study of the Free Enterprise model, Microeconomics, Supply, and Demand. The course also focuses on the impact of the American Citizen, Federal Government, and Current Events on the economy. An in depth study of investing in the stock market is achieved through a semester long project. The course concludes with a cumulative final exam and cost of living simulation. Passing this course is a requirement for graduation.

SOC2461 - Participation in Government

20 weeks
½ credit

This one semester course emphasizes the interaction between citizens and government at all levels: local, state and national. A general knowledge of how these governments operate will be included. The primary goal of the course, however, is to facilitate and encourage individuals to fulfill the "office of citizen" with these skills and qualities: civic-mindedness, civic intelligence, civic literacy, and civic enterprise. Another goal is to have some hands-on government experience during the course. Students must also attend government meetings, complete projects, and of 10 hours of community service accompanied by a final presentation. Passing this course is a requirement for graduation.

SOC2943 - Advanced Placement (AP) Government and Economics

40 weeks
1 credit ($)

Interested students should have an interest in American Government and Politics as well as having a strong academic track record. The course is designed to give students a critical perspective on government and politics in the United States. The course concludes with the mandatory Advanced Placement exam in American Government. Students must also pass a local exam in Economics. Students may substitute this course for Participation in Government and Economics. Whether or not you get college credit and/or advanced placement is determined by the score you receive on the AP test and the decision of the college of your choice.
Languages Other Than English (L.O.T.E.)

All Medina High School students are required to earn at least one credit in L.O.T.E. Students not earning a passing grade in Spanish I or French I must repeat the course until that goal is reached. **NOTE:** A proficiency exam is administered at the end of the first year.

**SPA5523 - Spanish 8th Grade**
40 weeks

During Spanish 8th grade students will begin to develop the ability to communicate in Spanish on a variety of topics. Each unit deals with a different theme such as greetings, self-description, school, family, the Spanish speaking world and more. The beginning grammar concepts are taught. The awareness of culture and customs of Spanish speaking countries are present in each unit.

Spanish 8th grade is the first of a two part study in preparation for the local Proficiency Assessment in Spanish. Students must participate actively in their assignments including vocabulary and grammar material in order to be successful in class. Students who achieve a 90% average in the first three marking periods are eligible to take the proficiency exam and possibly advance to level 2 in their freshmen year if they master the exam.

**SPA5113 - Spanish 1**
40 weeks
1 credit

During Spanish I, the students will develop the ability to communicate in Spanish on a variety of topics. Each unit deals with a central theme, such as school, sports, travel, family, going shopping or to a restaurant. The fundamentals of grammar are emphasized. The awareness of culture and customs of Spanish-speaking countries are presented in each lesson. Spanish I is the first level of the four year sequence. A student must participate actively in class, complete daily assignments, study vocabulary, as well as grammatical material, to be successful in class.

**SPA5123 - Spanish 2**
40 weeks 1 credit
**Prerequisite:** Spanish 1 or a score of 85 or above on the Proficiency Exam following Spanish 8th grade.

Spanish 2 students continue to improve the basic skills of listening, speaking, reading, and writing. Students will be able to communicate at a more advanced level, as different verb tenses and more complex grammar are mastered. More emphasis is placed on speaking and the use of Spanish in student projects. Success in this class requires participation, completion of assignments, and reviewing vocabulary.

**SPA5133 - Spanish 3**
40 weeks
1 credit
**Prerequisite:** Spanish 2

The third year concentrates on continuing to emphasize speaking, while expanding reading and writing. More advanced grammar and extensive vocabulary enable the student to communicate at a much higher level. **Students are prepared for the Comprehensive Spanish Exam (Checkpoint B) that also serves as the final examination in the course and is generally required for an Advanced Regents’ Diploma.**
SPA5943 – Advanced Study (AS) Spanish 4*

40 weeks
1 credit
Prerequisite: Spanish 3
NCCC course SPA 203 – 3 credit hours ($)

During Spanish 4 the student will be introduced to Spanish literature and civilization through short stories, novels and periodicals in Spanish. Many diversified opportunities for advanced conversation are offered. Spanish 4 provides for review and refinement of the material covered during the first three years.

Students completing Spanish 4 may receive college credit toward Language Other Than English requirements. **

SPA5953 – Advanced Study (AS) Spanish 5*

40 weeks
1 credit
Prerequisite: AS Spanish 4
NCCC course SPA 204 – 3 credit hours ($)

A continuation of opportunities for advanced conversations is offered. Spanish 5 provides for review and refinement of Spanish grammar. Students focus on advanced vocabulary with an emphasis on the diverse vocabulary used in the Spanish-speaking countries. A continuation of the study of culture is also offered.

Students completing Spanish 5 may receive college credit toward Language Other Than English. **

FRE5513 - French 8th Grade

40 weeks

During French 8th grade students will begin to develop the ability to communicate in French on a variety of topics. Each unit deals with a different theme such as greetings, self-description, school, family, the French speaking world and more. The beginning grammar concepts are taught. The awareness of culture and customs of French speaking countries are present in each unit. French 8th grade is the first of a two part study in preparation for the local Proficiency Assessment in French. Students must participate actively in their assignments including vocabulary and grammar material in order to be successful in class. Students who achieve a 90% average in the first three marking periods are eligible to take the proficiency exam and possibly advance to level 2 in their freshmen year if they master the exam.

FRE5213 - French 1

40 weeks
1 credit

During French I the students will develop the ability to communicate in French about a variety of topics dealing with their daily lives. Each unit deals with a central theme such as family, school, going to a restaurant or shopping. The fundamentals of grammar are also presented. Culture and customs are introduced in authentic situations in each lesson, as well as through DVD’s and movies. French I is the first level of the four-year sequence. In order to be successful students must participate actively in class, complete daily assignments and study vocabulary and grammatical material that have been presented in class.
FRE5223 - French 2
40 weeks 1 credit
Prerequisite: French 1 or a score of 85 or above on the Proficiency Exam offered after French 8th Grade.

French II students continue to improve the basic skills of listening, speaking, reading and writing. Students will be able to communicate at a more advanced level as different verb tenses and more complex grammar are mastered. French is spoken in daily class and in activities such as oral reports. Success in this class requires participation, completion of assignments, study, and personal study. Students must have passed French 1.

FRE5233 - French 3
40 weeks
1 credit
Prerequisite: French 2

More advanced grammar and extensive vocabulary enable the French III student to communicate at a much higher level. Much emphasis is placed on improving composition and spoken skills through frequent student projects. Reading skills are improved through the use of authentic materials. Students are prepared for the Comprehensive French Exam (Checkpoint B) that must be taken at the completion of the course. Passing the Comprehensive Exam is generally necessary for an Advanced Regents' Diploma.

FRE5933 – Advanced Study (AS) French 4*
40 weeks
1 credit
Prerequisite: French 3
NCCC course FRN 203 – 3 credit hours ($)

In French 5 students are exposed to college level work in literature, composition and conversation. Novels, plays, poetry and short stories are read and analyzed. Vocabulary and speaking skills are improved in units dealing with everyday topics. Advanced grammar is also studied.

Students completing French 5 may receive college credit towards language other than English requirements. **

FRE5943 – Advanced Study (AS) French 5 *
40 weeks
1 credit
Prerequisite: AS French 4
NCCC Course FRN 204 – 3 credits ($)

A continuation of opportunities for advanced conversations is offered. French 5 provides for review and refinement of French grammar. Studies focus on advanced vocabulary with an emphasis on the diverse vocabulary used in the French-speaking countries. A continuation of the study of culture is also offered. Students completing French 5 may receive college credit toward language other than English requirements. *

*In order to receive college credit, the student must register with Niagara County Community College and pay a reduced tuition fee.
Physical Education

BPE7511/7512 and GPE 7521/7522 – Grade 8 Physical Education
40 weeks
BPE7323/7333 and GPE7423/7433 – Grade 9 Physical Education
½ credit
40 weeks

See description below.

BPE7123/7133 and GPE7223/7233 - Grade 10-12 Physical Education
½ credit
40 weeks

The physical education program in grades 8-12 concentrates on physical fitness, lifetime activities, team sports and other various activities. The in-school program consists of approximately 20 units, which include the use of the fitness center. Credit is given toward the physical education requirements if students actively participate and complete the required class work for each unit/activity. The course offerings change from year to year and they are available from the instructor on an annual basis. The major focus will be on acquisition of knowledge and skills necessary for lifetime activity. Student participation in interscholastic sports is encouraged. Students will pay a $5 fee for the bowling unit.

Health

HEA7621 - Health
20 weeks
½ credit

The Skills for Living curriculum explores major areas of concern such as feelings, attitudes, friends, and family. Within these areas, skill development topics such as effective communication, group dynamics, positive thinking, positive self-esteem, goal setting and problem solving techniques are stressed. Units deal with major topics like wellness, nutrition, substance abuse, mental health, family life, sexuality and disease prevention and control.

Fine Arts

ART6515 – Art 8
20 weeks

This course enables students to develop their aesthetic sensitivity, creative potential, and self-esteem in the art room. Students will develop the necessary skills, knowledge, and attitudes for realizing their artistic potential while creating positive attitudes toward art and artists; hopefully laying a foundation for a lifelong interest in art.

ART6011 - Studio in Art 1
20 weeks
½ credit

This course is an introductory course required for students who are pursuing a sequence in art, and for those who plan to elect to take an advanced course in the future. Development of skills in drawing, paintings, design and the use of many different art materials will be stressed. Students will be exposed to the lives and works of artists from history to the present. Various careers in art will be investigated.
ART6012 - Studio in Art 2
20 weeks
½ credit
Prerequisite: Studio in Art 1

This course is the next course required for students who are pursuing a sequence in art, and for those who plan to elect to
take an advanced course in the future. Development of skills in drawing, paintings, design and the use of many different art
materials will be stressed. Students will be exposed to the lives and works of artists from history to the present. Various
careers in art will be investigated. Students will be expected to develop their own ideas in unique, creative, and original ways
and to create works of art that will be put into a college portfolio.

ART6031 – Studio in Advanced Drawing and Painting
20 weeks
½ credit
Prerequisite: Studio in Art 1 & 2

This course has been developed to provide an avenue of creative expression for those students who are serious about
improving their rendering skills and painting techniques. Design, color theory, observational drawing, figure drawing,
portraiture and fantasy are used as subject matter for studio work. In addition to creating unique personal artworks,
students will explore historical and contemporary art movements and trends.

ART6041 – Studio in Ceramics
20 weeks
½ credit

This course allows students to explore the ceramic medium and try different building techniques such as pinch, coil, slab and
the pottery wheel. Students will encounter historical artists and cultures that have had an impact on the development of
ceramics as an art form. Students will experience all aspects of the ceramic process from building, to firing, glazing and
finishing. An emphasis will be placed on hand building techniques and student creativity in design.

ART6052 – Studio in Sculpture
20 weeks
½ credit

Designing and building three-dimensional forms is the basis of this course. Students will use the creative thought process to
create sculptural works of art. Techniques in a variety of media will be explored using reductive and additive methods.
Important sculptors and their work will be studied as part of this course. Students will also be expected to keep a
sketchbook/folder that contains plans for their projects, sketchbook assignments and research/worksheets on related artists
and cultures.

ART6061 - Studio in Creative Crafts
20 weeks
½ credit

This course delves into contemporary craft techniques. Students will explore various media such as polymer clay, wire,
beading, and paper. Students will create a variety of different projects and learn about current artisans and past cultures.
Students are expected to learn through doing and create a practice assignment for each project. Special attention will also be
given to art history and art appreciation. Students are expected to develop their own ideas in unique, creative, and original
ways and to create works of art that foster a sense of intrinsic satisfaction of their own craftsmanship.
ART6071 – Studio in Fashion Design
20 weeks
½ credit
Prerequisite: Studio Art I

This course is an introductory course aimed at developing students’ knowledge and understanding the principles and skills involved in fashion design, illustration, and textiles. Students will develop an understanding of design principles, basic figure drawing and fashion trends through a series of exciting hands-on tasks such as repurposing and recycling an article of clothing, creating a paper shoe, and understanding how to piece together a pattern.

ART6801 - Art Workshop
20 weeks
½ credit
Prerequisite: Advanced Art student; Instructor approval

Advanced level students with good self-motivation and a minimum 85 average in art courses may be eligible to take these courses for local credit. ART TEACHER APPROVAL is required. Students work with instructor to plan and execute challenging individual projects. Five class periods weekly are required.

Junior and senior art majors should consider this option in preparing portfolios for college entrance and/or high

ART6101 - Photography 1
20 weeks
½ credit

This is an introductory course in the basic principles, tools, and methods used in digital photography. Students will explore a range of digital media, processing, and printing techniques. Emphasis will be placed on aesthetic concerns and development of individual imagery. Cameras are provided for student use but students are also welcome to use their own cameras with instructor approval. This class requires a $10.00 lab fee.

ART6112 - Photography 2
20 weeks
½ credit
Prerequisite: Photograph I

This is an advanced course in photography and students complete Photo 1 in order to be able to take this course. Students will continue to explore the many facets of photography. Students will learn to use Photoshop to enhance their work and will learn about printing, mounting, mating, framing and displaying of finished photos. Cameras are provided for student use but students may also welcome to use their own cameras with approval. This class requires a $10 lab fee.

ART6181 - Digital Media
20 weeks
½ credit
Prerequisite: Photo 1 or Instructor Approval

This course is a hands-on digital filmmaking experience. Students will learn storytelling through film. Students will use video cameras while experiencing every stage of production, including research, planning, scripting, shooting and editing. The types of videos that will be produced will range from mini documentaries, short films, new clips, highlight films, and music videos.

Doing a five unit sequence for your Advanced Regents Diploma? Here is what the Art Department recommends:

Studio Concentration: Studio 1, Studio 2, Advanced Drawing and Painting, and/or Ceramics, and/or Sculpture, and/or Art Workshop
Photography Concentration: Photo 1, Photo 2, Digital Media, Studio 1, and Studio 2
Music

Participation in performance organizations is dependent upon the student’s ability to sing or play at an acceptable level as demonstrated by past performance or by an audition. Enrollment in courses dealing with musical knowledge is restricted by any pre-requisites as listed.

MUS6223 - Mixed Chorus
40 weeks
1 credit

The Mixed Chorus is a performing group designed to teach and develop proper concepts of vocal production. Membership is open to any high school student who wants to sing, though the chorus consists of primarily 8th and 9th grade students. The Mixed Chorus performs a broad range of music including sacred, secular and contemporary pop music. The chorus sings in several concerts throughout the school year and attendance at all performances is required for course credit.

MUS6243 - A'Cappella Choir
40 weeks
1 credit
Prerequisite: by audition only

The A'Cappella Choir is a select group of 10th, 11th and 12th graders. The choir performs many times throughout the school year including assemblies for the elementary schools and for various community events. The group learns a broad range of music at various levels of difficulty. Members may be required to attend extra rehearsals, and attendance at all performances is required for course credit.

MUS6213 - Concert Band/Lessons
40 weeks
1 credit

The Concert Band is a performing organization that explores, rehearses and performs music of accepted musical significance. Course material for Concert Band is limited to Level IV in difficulty. Students who exhibit a desire to play an instrument can take Concert Band. Seating is determined by the band director with the recommendations of the middle school band director for incoming 8th graders. Grading is based on lesson attendance and effort given to mastering one’s instrument. All performances are in lieu of exams and are required for course credit.

MUS6233 - Wind Ensemble/Lessons
40 weeks
1 credit

The Wind Ensemble is a performing organization that explores, rehearses and performs music of accepted musical significance at all levels of difficulty. Students audition and are placed in Wind Ensemble based on progress and proficiency on their instrument. Auditions are conducted at the start of each year for seating. Seating is based on audition score and at the directors discretion seating can be adjusted to benefit the overall group. Grading is based on lesson attendance and effort given to mastering ones instrument. All performances are in lieu of exams and are required for course credit.

Jazz Band
30 weeks – 2 days a week beginning before school (mid-October through June)
No credit given
Prerequisite: Enrollment in concert band or wind ensemble – instruments accepted: saxaphones, trombones, trumpets, drums, piano, bass guitar (or piano bass), optional vibes.
Jazz Band 'A' is comprised of a very select group of instrumentalists. Initial entrance into this group is by audition. Continued membership is dependent upon attendance at rehearsals, enthusiasm for jazz and the ability to perform the music. Jazz band explores the various forms of music characteristic of the jazz idiom. Emphasis is placed upon the development of style, rhythmic concepts and improvisation as they relate to jazz. The jazz band travels and performs in tandem with the concert and marching bands. Attendance at all performances is required. A second jazz ensemble may be established depending on amount of interested and qualified students.

MUS6253 - Music Theory 1
40 weeks
1 credit

*Music Theory 1 is offered to any student in grades 8-12.*

Theory 1 is the study of music fundamentals including rhythm, harmony, melody, instrumental transposition and basic music writing. Piano lessons are taught in the course, as well as guitar and sight singing. The size of the class and abilities of the participants generally determine the scope of the theory taught in the class. The course concludes with a final instrumental music composition project that is performed by the students.

MUS6263 - Music Theory 2
40 weeks
1 credit

*Prerequisite:* Successful completion of Theory I and recommendation of the instructor

Music Theory 2 solidifies the background material mastered in Theory 1. Students are introduced to modal harmony, altered chords, 20th century composition and choral analysis. Piano lessons, guitar, and sight singing are continued. The course concludes with a final original choral composition project that is performed by the students.

MUS6943 - AP Music Theory
40 weeks
1 credit ($)

*Prerequisite:* Successful completion of Theory 1 and 2 or recommendation of instructor.

The Advanced Placement Music Theory Course is comparable to a first-year college music theory course. AP Music Theory integrates the study of melody, harmony, texture, rhythm, and form. Time is devoted to the analysis of notated examples; to the development of aural (listening) skills, sight singing and keyboard harmony; and to part writing and harmonization. The Advanced Placement Theory Examination is administered in May and is required of all participants. The year concludes with a final original composition project that is written, rehearsed and performed by students.

MARCHING BAND

Marching Band is an extracurricular activity associated with the Music Department. See Mr. Steele for more details.

Career and Technical Education (CTE)

Some students need one-half unit of Career & Financial Management. Some career and technical education courses can be used for graduation credit in math, science, fine arts, and health. Examine those courses at the end of this section and contact your high school counselor if you are interested in any of these substitutions.

AS Career and Financial Management
All Career and Technical Education majors (including those who go to BOCES) must successfully complete a one-semester course, Career & Financial Management.

Definition: Career and Technical Education (CTE) majors are those students working toward a five-unit sequence in Agriculture, Business, Technology or BOCES.

BUS9951 – AS Career & Financial Management
20 weeks
½ credit

Meets the requirement for all career and technical education majors. The course strives to emphasize those factors related to job success beyond mechanical skills and knowledge. The purpose of the course is to provide students with the opportunity to learn about the features of our economy, explore a variety of careers, learn the skills and competencies needed for success in the workplace and to begin to become financially literate. Topics covered include Business Systems and Economics, Career Planning, The Career Selection Process, Career Success, and Financial Literacy. An overview of each topic is given below.

**Business Systems and Economics:** This topic emphasizes the business and economic system including its characteristics, operations, structure, and evolving role within society. Students should realize the significance of their part in the economic system. Important management and economic concepts are defined in relation to business transactions and to the individual as an entrepreneur, employee, consumer and citizen.

**Career Planning:** This topic emphasizes the relationship between career planning and lifelong goals. Students should recognize the skills needed for success in a chosen career cluster and know how to assess personal abilities and work performance to achieve career goals. Key factors include understanding the changing nature of the workplace and the relationship of lifelong learning leading to career success.

**The Career Selection Process:** This topic emphasizes the skills to be effective in searching for and selecting the appropriate career. Students should become familiar with the job search process and the preparation and presentation of individual materials required to participate in the process. During the process, students recognize interrelationships among the different career areas and identify realistic occupational choices. Students also develop strategies to make an effective transition from education to career.

**Career Success:** This topic is designed to increase student awareness of working conditions and important factors in employment benefits packages. Students should make actual preparations for entering the workforce while developing skills in communication, critical thinking and decision-making.

**Financial Literacy:** This topic emphasizes economic decisions related to financial management. Students will study a range of financial alternatives and explore basic decisions necessary to become informed employees, consumers and citizens. General principles will be combined with practical applications to develop personal financial literacy.
Agriculture

AGR9111 – Applied Agriculture I: Explorations
20 weeks
½ credit
This course includes an overview of all agricultural areas and is required of all agriculture majors. Some topics that will be discussed include safety, leadership, plant and animal production, as well as agribusiness management techniques and careers. Students will participate in managing the Ag Department’s Ag Science Research Center. Class may require additional work outside of class. Students will also be encouraged to participate in Career Development Events through the FFA.

AGR9161 – Applied Agriculture II: Youth Leadership
20 weeks
½ credit
Lead, follow, or get out of our way! This course is a foundation to being a leader in any aspect of your life. Together, we will help you establish individual goals, learn the importance and application of team work, perform community service and best of all...have fun doing so! Students will have opportunities to participate in many FFA activities and competitions, will participate in fundraisers and community events, and so much more. Who knew being a leader could be so fun?!?

AGR9173 – Veterinary Science and Skills (offered alternate years 2018 and 2020)
40 weeks
1 credit, Grades 11 and 12 or Instructor Approval
Prerequisite: Prerequisite of AGR9111 or AGR 9161
Llamas, and puppies, and cows...oh my! This course is perfect for the student who may be interested in being a vet or vet tech, or simply has a love for animals. We will cover safety, animal handling, sanitation, anatomy, physiology, diseases, clinical exams, lab procedures, office management, and career explorations...to name a few. We will periodically perform dissections as well as have live animals in class for hands-on training. Field trips and guest speakers will be included in the course structure.

AGR9183 – Animal Care and Management (offered alternate years 2017 and 2019)
40 weeks
1 credit, Grades 10-12 or Instructor Approval
Prerequisite: AGR9111 or AGR 9161
Laboratory animal and small animal care is expanding quickly, creating many career opportunities. This course will explore animal rights and animal welfare issues with group projects and discussion and individual projects. Some class projects include raising small animals, fish, and the health and productivity of animals. This class is perfect for those students interested in pet shelters, rescue centers, or who may be interested in running an animal-based business. We will periodically have live animals in class for hands-on training. Field trips and guest speakers will be included in the course structure.

AGR9133 - Agricultural Engineering and Production I
40 weeks
1 credit, Grades 9-12
Prerequisite: Applied Agriculture I or II
This course will offer you an introduction to the many opportunities agriculture has to offer...and the chance to apply them! From plant and animal genetics, to plant and animal housing; from material processing to intro level mechanics... this class offers a ton! You will be able to learn operation and maintenance of some farm equipment; you will design, model, and build actual structures; you will propagate, reproduce, compost, plant and harvest a variety of products. The Medina FFA Ag Science Research Center (our model farm) as well as the greenhouse, shop, and classroom are all spaces to learn and grow that you will have access to. Field trips and guest speakers may be included in the course structure.
AGR9193 – Agricultural Engineering and Production II
40 Weeks
1 Credit
**Prerequisite:** AGR9111 or AGR9161 and AGR9133

Students will continue to learn mechanical science by studying the physics involved in the design and operation of agricultural equipment. We will use repair and maintenance manuals to problem-solve and troubleshoot various equipment, engines, and products. Hands-on is the focus – doing to learn is what this class is all about. Students will be responsible for operating, maintaining, and repairing land lab equipment.

AGR9143 – Food Science, Safety and Technology (offered alternate years 2017 and 2019)
40 weeks
1 credit, Grades 9-12
**Prerequisite:** Ag Explorations I or II

Do you eat? You may know what you eat...BUT do you really know what’s in it? How it was made? Where it came from? This course will answer those questions and more! You will complete hands-on activities, projects, and problems that simulate actual concepts and situations found in the food science and safety industry, allowing students to build content knowledge and technical skills. You will investigate areas of food science including food safety, food chemistry, food processing, food product development, and marketing. You will have the opportunity to work in the greenhouse, plan school and community gardens, study and affect school lunches, and use The Ag Science Research Center.

AGR9123 – Plant Science: Horticulture, Agronomy, and Landscape Management (offered alternate years 2018 and 2020)
40 weeks
1 credit, Grades 9-12
**Prerequisite:** Ag Explorations I or II

You will learn how to apply scientific knowledge and skills to use plants effectively for agricultural and horticultural production; as well as landscaping and landscape management. You will discover the value of plant production and its impact on the individual, the local, and the global economy. Lessons throughout the course will provide an overview of the field of agricultural science with a foundation in plant science. These lessons include working in teams and exploring hands-on projects. You will work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers, and plant research specialists, face in their respective careers. You will have the opportunity to work in the greenhouse, plan community gardens, study guerilla gardening, and use The Ag Science Research Center.

AGR9811 /9812 – Independent Study
20 weeks
1/2 credit
**Prerequisite:** student has taken a minimum of three (3), 40 week courses of the other Agriculture classes

Teacher recommendation and approval is **required** for admission to this course. Independent Study is a program of study designed for students who are interested in pursuing learning on their own and in their own way. This course will be primarily application and/or project based.

Doing a five unit sequence for your Advanced Regents Diploma? Here is what the Ag Department recommends:

**Plant Concentration:** Applied Ag Exploration I and II, Ag Engineering and Production, Plant Science, Animal Care, Independent Study (would work as the greenhouse manager in addition)
**Animal Concentration:** Applied Ag Exploration I and II, Vet Science, Animal Care and Management, Ag Engineering and Production, Independent Study (would work as Ag Science Research Center manager in addition)

**Mechanical Concentration:** Applied Ag Exploration I and II, Ag Engineering and Production, Plant Science, Animal Care, Independent Study (would work as the shop manager)

**General Ag Concentration:** Applied Ag Exploration I and II, Ag Engineering and Production, Vet Science, Food Science, Plant Science

Learning to Do, Doing to Learn, Earning to Live, Living to Serve. The FFA Motto

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**Business**

BUS9715 – High School and Beyond

20 Weeks

This course is designed to teach the skills necessary to be successful in High School and Beyond through various technology to become a more efficient student. In addition, students will self-evaluate and research how high school can help them become college and career ready.

BUS9211 - Keyboarding

20 Weeks

½ Credit, Grades 8-12

Using current technology, learn how to type efficiently, proofread with accuracy, and navigate the menus in both Google Docs and MSWord. File management is implemented throughout the course, and the proper formatting of tables, reports, letters, and enumerations are emphasized.

BUS9941-Advanced Study (AS) Programming and Problem-Solving

20 Weeks, ½ Credit, Grades 9-12

**GCC Course CIS 125** - 3 credit hours

Video games, Apps, general and special purpose software programs are created by computer programmers. Design beginner applications using menus, graphic images, toolbars, and sound, and learn to write programming code using the language Visual Basic. Projects are often based on individual topics of choice.

BUS9922 - Advanced Study (AS) Microcomputer Applications

20 Weeks, ½ Credit, Grades 9-12

**GCC Course CIS116** - 3 credit hours

Highly recommended course for the college-bound student! Create artistic and professional projects using MSWord, Excel, PowerPoint, and Access, In addition to Google Docs, Sheets, and Slides. Be prepared as file management and the ability to use these programs at an advanced level is essential for college!

BUS9252 – Game Programming

20 Weeks

½ Credit, Grades 9-12

**Prerequisite:** Programming and Problem-Solving

Design a game of choice throughout the course using Visual Basic and develop unique and creative interfaces with more advanced code.
BUS9223 – Advanced Study (AS) Introduction to Entrepreneurship
40 Weeks
1 Credit, Grades 11-12
Syracuse University Course EEE370 – 3 Credit Hours

Entrepreneurs see problems as opportunities! Create a business plan based upon your own idea or invention, and recognize the entrepreneurial potential within yourself. Appreciate the role of entrepreneurship within society, understand the process nature of entrepreneurship, and identify the many ways in which entrepreneurship manifests itself.

BUS9951 - Advanced Study (AS) Career & Educational Planning
20 Weeks
½ Credit, Grades 9-12
GCC course CEP101 - 3 credit hours

A wonderful exploratory course to self-assess, navigate through a variety of colleges and careers, learn the transferable skills necessary to be successful in college and the workplace, and begin to become financially literate. Topics covered include essentials for college-level writing, career planning, conflict resolution, time management, decision-making, information and financial literacy, as well as create job searching documents such as resumes and cover letters.

BUS9241 - Personal Finance
20 Weeks
½ Credit
Grades 9-12

Relevant real-world discussions on career planning, job success, budgeting, saving, investing, housing, insurance, credit, and financial risks will be covered. This course provides students with the personal financial knowledge they will need to be successful after high school.

BUS9233 - Entertainment & Sports Marketing
40 Weeks
1 Credit, Grades 10-12

Music, movies, video games and sports are used to introduce students to the basic functions of marketing as well as the important role that marketing plays in our economy. Topics to be covered include: public images, public relations, marketing entertainment, marketing plans and professional, college, and amateur sports. Projects in the course include: Video/Commercial production, a role-play sales presentation, image creation (sports uniforms/video game genres/music or entertainers), marketing plan (stadium design project – for any entertainment area such as musical concerts or sports team/event creation).

BUS9243-Accounting
40 Weeks
1 Credit, Grades 10-12

Often a required course in college for many majors, this course develops the foundation necessary to be successful at the college-level. Play Monopoly while learning how to prepare financials, including the Income Statement, Balance Sheet, and Cash Flow Statement for a fictitious business. Examine how the different forms of ownership manage their records and analyze and interpret the data to determine profitability and to make predictions. Explore careers, including Chief Financial Officer, Auditor, Tax and Forensic Accountant, and evaluate crimes such as insider trading, money laundering, financial fraud, and embezzlement.
BUS9253 - Personal and Business Law
40 Weeks
1 Credit, Grades 10-12

This exciting full-year course is filled with real-world practical experience for students in their daily lives. It will provide students with a comprehensive understanding of business and even more specifically personal law that affects them. The concepts and topics taught in class are extremely relevant, as all individuals will eventually: enter contracts, be employed, rent a place to live, buy and insure a car, need to protect themselves against various forms of fraud, borrowing money and buying on credit. This course covers all of these topics and will enable the student to be better prepared in future business and personal dealings.

MAT3363 - Financial Math
40 Weeks
1 Credit, Grades 10-12

This course is designed to teach mathematics relative to personal finance. Topics include budgeting, payroll, banking, financing and more. Through individual effort and cooperative group work, students will become financially self-sufficient members of society. This course may be used as a math credit or business elective.

BUS9263 - Desktop Publishing & Design/Yearbook
40 Weeks
1 Credit, Grades 11-12 or with instructor permission

This course introduces the student to the basics of yearbook production and other forms of print media, and deals with theory as well as practice. Mastery of the goals and objectives fully verse staff members in all areas of publications production. It also enhances students’ skills in using the desktop publishing programs in an atmosphere of team building and self-discipline.

Technology

TDR9715 – 8th Grade Technology Education
20 weeks

This course serves as an exploration of technology education. It is a project-based course where students learn about the engineering process. Some projects will be used to compete in the annual Tech Wars Competition. The class spends equal time in the computer lab and the shop.

TDR9413 – Design and Drawing for Production (DDP)
40 weeks
1 credit, Grades 9-12

This course serves as an introduction to all fields of technology. It is a project-based course where the projects are taken from the designing stages all the way to completion. Students will design 3D models of projects on the computer and will use working drawings to construct or 3D print them with the touch of a button or using tools and machines. Students get to keep many of their projects which will include cell phone cases, gumball machines, trebuchets, and more. Some projects will be used to compete in the annual Tech Wars Competition including trebuchets, robots, etc... The class spends equal time in the computer lab and the shop.
TDR9431 – Intro to Principles of Engineering
20 weeks
½ credit, Grades 10-12
Prerequisite: DDP

Students construct advanced projects to explore the world of engineering. The class is spent in both the computer lab and the shop. The projects are completed using the skills developed in the previous classes. Most of the projects completed in this class will be used to compete at the annual Tech Wars Competition. One of the projects in this class include the cardboard regatta competition. This involves the designing and constructing of a cardboard boat that you and your team must get into and complete an obstacle course in an Olympic swimming pool. Some of the other projects completed in this class include the wooden bridge competition at Tech Wars, and testing of cement structures.

TDR9442 – Intro to Architecture
20 weeks
½ credit, Grades 10-12
Prerequisite: DDP

This course will include careers in architecture, site plans, construction basics, floor plans, renderings and modeling. This is both a project-based and design-based course. Students will construct models of homes and larger structures, and design their own dream house using the computer.

TDR9421 – Intro to CAD
20 weeks
½ credit, Grades 10-12
Prerequisite: DDP

This is a design based course. Students will explore the world of Computer Aided Drafting. This course will use mostly computers to design 3D objects. Students will learn how to use and operate a 3D printer to bring their 3D objects to life with a click of a button. Students will also learn how to use a CNC milling machine to carve out their designs.

TDR9453 – Advanced Principles of Engineering
40 weeks
1 credit, Grades 11-12
Prerequisite: DDP, Intro to Principles of Engineering

Students construct advanced projects to explore rocketry. The class is spent in both the computer lab and the shop. The projects completed will be used to compete in a national rocketry competition (T.A.R.C.). The competition involves designing and testing rockets to reach exact heights and flight times while carrying a payload. The goal is to reach nationals in Washington D.C. and compete to win $150,000 in college scholarships.

TDR9443 – Advanced Architecture
40 weeks
1 credit, Grades 11-12
Prerequisite: DDP, Intro to Architecture

This course builds on the knowledge learned in previous courses and is a designed based atmosphere. Students will use advanced architectural software to design structures (sports stadiums, houses, etc.). Students will be able to keep professional floor plans, 3D walkthroughs, etc. of the structure they design.
TDR9423 – Advanced CAD
40 weeks
1 credit, Grades 11-12
Prerequisite: DDP, Intro to CAD

This course is design based and will build on the knowledge learned in previous courses. The class will look at multi-part objects and how they work together. This course will involve designing multi-part objects. The designed parts will be 3D printed and put together. Other topics covered in the course will involve advanced drawing and 3D printing techniques. Students will also learn and practice advanced techniques in CNC milling.

TEC9841/9842 - Independent Study
20 weeks
½ credit
Prerequisite: Grade 12 with instructor approval

Teacher recommendation and approval is required for admission to this course. Independent Study is a program of study designed for students who are interested in pursuing learning on their own and in their own way.

BOCES

Medina High School Attendance Policy

1. All sophomores and juniors, who wish to enter a BOCES vocational program in September, will have their attendance reviewed by May 1st of the current year. Any student who has been absent or tardy 11 or more days between February 1st and May 1st, or is on the ineligible list for attendance, will be required to sign an attendance contract with their parent(s). The contract will state that the student must be in attendance at least 26 days or 80% of the days between the first day of school in September and the end of the third week in October. If not, the student will be dropped from the BOCES program for the remainder of the year.

2. Any current junior BOCES student will have his/her attendance monitored. As of June 1st, if the student’s attendance between February 1st and June 1st is below 80%, the student will not be allowed to return to BOCES for the following school year. (There may be exceptions to this, especially for health reasons such as a prolonged illness, injury, etc.) Absences due to a pregnancy will be dealt with on an individual basis and an opportunity to return to BOCES will be determined by the student’s attendance during the rest of the year.

Course Descriptions

BOCES programs are open to all junior and senior students. To earn a sequence (major) students must also earn one-half credit in Career and Financial Management. In some sequences, students also must take core courses. These are listed under each course description, if required. Many BOCES programs offer the opportunity to earn college credit through Advanced Study courses or articulation agreements with local colleges. Interested students should consult with their school counselor or BOCES instructor for more information.
BOC9503/9504 - Auto Body Repair
1 or 2 year program  40 weeks
3 credits/year
Auto Body Repair is an occupational program for students who desire to earn a living in a special area of the automotive industry. It is designed to give comprehensive training in the repair, painting and finishing of automobile bodies and fenders, frame and body alignment, installation of upholstery, body trim, hardware, door locks and remote controls, and glass window regulators.

BOC9505/9506 - Auto Mechanics
1 or 2 year program
40 weeks
3 credits/year
Auto Mechanics is a two-year course open to all students in their junior or senior year. The program is designed to prepare the student who expects to enter the mechanics field in a repair shop, service department, at a dealership, a service station or fleet maintenance facility. The majority of the work done in the first year program is performed on stationary equipment and other instructional apparatus. The second year of the program builds on the basic skills learned in the first year and the class is conducted as an automotive shop. The shop structure simulates a well-organized repair shop with job sheet, work orders, parts inventory, etc. Students work on vehicles that are currently in use and are brought in by the owners.

BOC9507/9508 - Building Trades
1 or 2 year Program
40 weeks
3 credits/year
The Building Trades program is designed to prepare students to enter directly into the trades or continue their education at a post-secondary level. The content of this program will provide extensive exposure to carpentry, masonry and plumbing. The program is open to all students in their junior and senior years. The main activity for training is the building of a 1500 square foot modular home over the course of two years. The first year is divided into rough framing, masonry and plumbing. In the second year, the students will continue with plumbing and masonry, but an emphasis will be on siding, insulation, drywall, painting, and trim carpentry.

BOC9511/9512 - Computer Technology
1 or 2 year Program
40 weeks
3 credits/year
The Computer Technology course will allow students to become knowledgeable about many aspects of computer technology. In the first year, students are introduced to standard software packages, operating systems, hardware architecture and basic web design. During the second year, students study advanced applications and multimedia or in-depth hardware and networking.

**Cisco Networking Academy**
During semesters 1 and 2, students are introduced to basic computer concepts, Local Area Networks, electronics, cables, design and documentation, router configuration, operating systems, and in-depth hardware architecture. During semesters 3 and 4, students study advanced networking skills and router programming and configuration.

BOC9513/9514 - Cosmetology
1 or 2 year Program
40 weeks
3 credits/year
Cosmetology is a two-year course available to all students in the junior or senior year. This course includes all phases of training necessary to become a licensed Cosmetologist. As in all occupational programs, the students learn by doing. They will perform basic techniques in shampooing, pin curling, sectioning, finger waving, etc., on mannequins before progressing to
fellow students. During the process of learning, they will perform manicures, do make-up, shape eyebrows, arrange wigs and give facial massages as part of their training. There will also be a considerable number of theory lessons and examinations in the program. The second year of training will involve working on the public in the Cosmetology clinic. Students enrolled in this program are to accumulate 1,000 hours of instruction, which mandates a very good attendance record. Upon completion of the 1,000 hours, the student is encouraged to take the state examinations. This consists of two parts: one practical and one written.

BOC9515/9516 - Early Childhood Education
1 or 2 year Program
40 weeks
3 credits/year

Early Childhood Education is a one or two-year program open to all students in their junior and senior year. The course is conducted five days per week and with a preschool as a critical component of the program. The preschool is used to observe children and to facilitate student instructional experience. Students completing this program will be trained as general early childhood workers. They will be prepared to complete the Child Development Associate credential with from 218 to 284 hours of the required 480 hours. They will also share an almost complete portfolio, another requirement for this credential. The student will be prepared to continue their education at a two-year or four-year college. The student who maintains an average of 85% for the two years has available to them an articulation at Niagara County Community College of nine credits and College Advanced Studies courses at Genesee Community College.

BOC9517/9518 - Electricity/Electronics
1 or 2 year Program
40 weeks
3 credits/year

A two-year program that allows students the opportunity to attain entry level job skills and/or prepare for additional in-depth training in the Electricity/Electronics field. Students will first study Consumer/Industrial electronics and then progress to Electrical Construction techniques. Students will be given job-seeking skills and assisted in finding employment near the end of the second year.

BOC9519/9520 – Culinary Arts
1 or 2 year Program
40 weeks 3 credits/year

Students in this program will be exposed to the variety of careers available within the food service and food preparation field. By actual participation, students will become familiar with the workings of a modern kitchen while preparing foods of various types. This training will prepare them for future employment in both preparation and serving. This program will also qualify students for acceptance at postsecondary schools specializing in training necessary to become master chefs, restaurant managers and owners or to become instructors of food services trades. The program is open to all high school juniors and seniors.

BOC9521/9522 - Graphic Communications
1 or 2 year Program
40 weeks
3 credits/year

The Graphic Communications program is a PrintED certified training program, sponsored by the Printing Industries of America – it is the only printing accreditation program for school which gives professional direction to meet industry’s standards. The PrintED certification benefits students with better job placement; more focused learning and recognized certification by the national printing industry. Areas of completion are Introduction to Printing, Basic Offset Press and Digital Image Preparation. This program combines two one-year programs, Digital Design Media and Offset Printing. Half of each program is offered each year.
BOC9523/9524 - Health Occupations Technician
1 or 2 year Program
40 weeks
3 credits/year

Health Occupations Technician (H.O.T.) is a two-year program that meets daily for two hours and forty minutes. Starting with the Health Occupations Core that gives students their high school Health credit, the curriculum will be expanded to allow the student experience and exposure to multiple health fields. Being multi-skilled in the health fields is beneficial to job opportunities. The H.O.T. program will allow the student employment in multiple entry-level jobs within the health field as well as provide the foundation to pursue further education in one of over 400 health care professions. Students should expect classroom time to be spent with theory, related activities, and skills practiced in the classroom clinical lab. In the second year, the clinical experience will be expanded to other sites outside the classroom.

BOC9501/9502 - Heavy Equipment-Diesel Mechanics
1 or 2 year Program
40 weeks
3 credits/year

Heavy Equipment/Diesel/Agricultural Mechanization is a two-year program open to all high school juniors and seniors. Students who have found an interest in working with machines and wish to pursue a mechanics oriented career should consider this program. Machines make our world “go around”. Trucks and tractors, automobiles, forklifts, backhoes and bulldozers, hydraulic assembly line conveyers, and lawnmowers. All of these machines would soon come to a stop without competent, skilled mechanics to keep them repaired and properly operating.

BOC9525/9526 - Precision Machine Technology
1 or 2 year Program
40 weeks
3 credits/year

The Precision Machine Technology program is two years in length and is designed to develop skills that will allow graduates to obtain employment in the machining industry. The program emphasis is on machine set-up and operating skills, and the development of attitudes necessary to remain employed in the metal working field. The first year of the program will be divided into two parts. One third of the student’s time will be spent in shop terminology and blueprint reading. The other two-thirds of the time will be operated as a job shop. The student will gain experience on all the machines during the first year. The second year of the program consists of working on a project of a more complex nature.

BOC9529/9530 - Security and Law Enforcement
1 or 2 year Program
40 weeks

Crime is a fact of life. It is not going to go away and has generally shown an increase over the past several decades. Public security may include federal, state, county and local police agencies, transportation and public housing agencies, and prisons. Private security may include bodyguards, shopping malls, hotels and motels, recreational, industrial plants, and stores. These are just a few of the many opportunities where security personnel find employment. This course is open to all students who are interested in a career with the public or private security agencies. During the course, students will not only receive instructional theory, but will also practice some methods of security. Field trips to local courts, central police services, various law enforcement agencies, and prisons will be a part of the program.

BOC9561/9562 - Welding
1 or 2 year Program
40 weeks
3 credits/year

The Welding course is designed to develop skills in all areas of welding and metal fabrication but most specifically those areas where there is the greatest employment potential. Approximately one quarter of the course is devoted to metal fabrication
methods and the production of welded items. The class is set up with a structured step-by-step order for moving through the various welding methods and processes. Students will be required to complete pieces representing various metal joints and in different positions. Fabrication will take place during the welding process for a majority of their class time.

BOCES Tech Prep

BOC9537/9538 - Allied Health Tech Prep
1 or 2 year Program
40 weeks/year
3 credits/year
Satellite Sites: Medina Memorial Hospital

This program is taught in collaboration with local districts to enable students to explore the variety of health care occupations that exist and to develop the skills, knowledge and attitude needed to succeed in a college degree training program. The program exists in a one-year and two-year format to serve students with varying academic backgrounds. Local districts provide instruction in math, science and communication. BOCES provides 2 ½ periods of instruction daily in health care industry theory and practice, combined with supervised experiences in student selected health occupational fields. Graduates are expected to be better prepared to select from among competing health occupations and to better succeed in subsequent post-secondary study.

BOCES Academic Courses

Three academic courses are offered at the Career & Technical Centers that help students fulfill their obligations toward graduation. Students are required to take these at Medina High School if there is time in their schedule.

Technical Mathematics
Two-year program
40 weeks/year
1 credit awarded at the end of two years
Prerequisite: Successful completion of two Math courses, including Integrated Algebra

This curriculum was created for the integration of technical mathematics over two years within the Career and Technical Education class. Students will understand mathematics as it is applied to the occupational component. They will become mathematically confident by communicating and reasoning mathematically by applying mathematics in their occupational program with real-world applications, settings and proficiency. Problem-solving through integrated study of number systems, geometry, algebra, data analysis, probability, and trigonometry will all be covered as it related to the student’s program area.

Technical Science
Two-year program
40 weeks/year
1 credit awarded at the end of two years
Prerequisite: Successful completion of two Science courses, including the Living Environment

This curriculum was created for the integration of technical science over two years, within the Career and Technical Education class. Students will understand Science as it is applied to the occupational program content. Students will understand and apply scientific concepts, principles and theories as it is related to their specific occupational program. They will also work with the integrations of chemistry, physics and life sciences as it related to the physical setting and living environment. They will also make connections to non-science disciplines such as mathematics, history and language arts.
The course is designed to meet the needs of a diverse population, teach science processes and proven actual hands-on experience.

Technical Communications (Writing)/4th year English elective
Two-year program
40 weeks/year
1 credit awarded at the end of two years

This curriculum was created for the integration of English within our Career & Technical Education (CTE) classes. It addresses current English Language Arts Standards for the purpose of being offered as an elective embedded within our CTE classes as Technical Communications/Technical Writing. This curriculum offers a broad selection, over two years, of assignments from which the individual CTE instructor may select, that will allow the student to build proficiency in each specific area. Included within are assignments that range from technical writing, note taking/listening skills, essay writing specific to the CTE program and business letters. Other assignments include creating a detailed portfolio and creating a detailed set of instructions for performing a specific job task. These lessons and assignments will be presented to students as reflected within their individual CTE classes and are not to be treated as stand-alone English assignments. They will be designed and delivered by both CTE and academic instructors.
Glossary of Terms

1. **Unit of Credit:** The value given to a course which is pursued five (5) periods a week for a minimum of 40 minutes for each period for a school year and involving an equal amount of time in preparation outside of the classroom. Laboratory courses and music may require extra class time.

2. **Semester:** One-half of a school year, usually 20 weeks.

3. **Marking Period:** One-quarter of a school year, usually 10 weeks.

4. **One-half unit of Credit:** Usually granted for the successful completion of a subject studied one period a day for one semester, or two or three times a week for one year (i.e., Physical Education).

5. **Required Subjects or Constants:** Those courses taken for graduation. These are courses that all students must take to meet New York State and/or local school district requirements.

6. **Electives:** Courses that are not required of all students but are chosen by the student.

7. **Pre-requisites:** The requirements that a student must meet in order to be eligible to take a given course.

8. **Dual Credit:** Credit given for a course by both Medina School District and a local college.

9. **Regents’ Diploma:** A diploma that is awarded by the New York State Education Department that indicates that the student has accumulated enough credits, has satisfactorily completed all required courses and has passed five required examinations with a 65% or better.

10. **Advanced Regents’ Diploma:** A diploma that is awarded to the student who has met the criteria for a Regents’ diploma and who has passed an additional 3-4 Regents’ examinations with a 65% or better.