



GATES CHILI HIGH SCHOOL

***Program of Studies
Course Selections***



2025-2026

THE SPARTAN WAY: Respect - Responsibility - Compassion - Hard Work

Together we teach and inspire excellence for all learners.

Introduction

Dear Students, Parents, and Guardians:

Throughout this program you will find that Gates Chili High School offers a wide variety of courses that will prepare students for the demands of college and build career-related skills. We encourage all students to challenge themselves by enrolling in rigorous courses that will prepare them for life beyond high school, and create opportunities in post-secondary education and the workforce.

In addition to offering courses aligned to the NYS Regents curricula, Gates Chili partners with local colleges to provide dual credit courses that offer students the opportunity to earn college credits while meeting NYS graduation requirements. Advanced Placement (AP) courses are also offered through the College Board where students experience the rigor of college-level work with the opportunity to sit for a national exam at course completion. These courses weigh heavily on colleges' and universities' acceptance decisions.

Together, our families and school personnel form a partnership that shares the responsibility for the success of our students. This document acts as a guide for the course selection process, but open communication with your child's counselor and teachers is crucial in maximizing the educational experience. Please feel free to contact our counseling department with any questions you may have, or to set up an appointment to discuss course selections. We are excited about the learning opportunities we offer and look forward to assisting you.



Sincerely,

High School Administration and Counseling Teams

Gates Chili Moral Imperative

The Gates Chili Central School District has a moral duty to serve its students and families. Every student must be able to receive an equitable education where they are represented, protected and able to thrive. The district acknowledges the presence of white privilege and bias and how this perpetuates systematic racism.

The Gates Chili Central School District is committed to the necessary growth required to develop and sustain equity and dismantle disproportionality.

Together we teach and inspire excellence for all learners.

Gates Chili High School • 1 Spartan Way • Rochester, NY 14624 • 585.247.5050

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Nondiscrimination Policy

The Gates Chili Central School District hereby advises students, parents, employees and the general public that it offers employment and educational opportunities, including vocational education opportunities, without regard to sex, race, color, national origin or handicap. Inquiries regarding this nondiscrimination policy may be directed to either representative below:

Title IX Officer
 Assistant Superintendent for Human Resources and Labor Relations
 Gates Chili Central School District
 3 Spartan Way
 Rochester, New York 14624

Section 504 Coordinator
 Assistant Superintendent for Student Support Services
 Gates Chili Central School District
 3 Spartan Way
 Rochester, New York 14624

Graduation Requirements

Required Classes

Subject	Units
Business Career Exploration and Financial Literacy+ is a required course. * Unless exempt by an IEP	0.5*
English	4
Social Studies	4
Mathematics	3
Science Must include 1 unit from a Physical Science course and 1 unit from a Life Science course	3
Health	0.5
Art and/or Music, or DDP, or Creative Design for Fashion and Home	1
World Language An Advanced Designation Diploma requires 3 units of World Language or a 5 unit sequence in Business, Technology, Family & Consumer Science, Art, Music or WEMOCO . * Depending on diploma type. * Unless exempt by an IEP	1-3*
Physical Education	2
Electives * Depending on diploma type	1-4.5*
Total Units	22

Required Regents Exams

Regents Diploma (Passing score of 65% or above*)	
<ul style="list-style-type: none"> 1 Math Regents exam 1 Science Regents exam 1 Social Studies Regents exam 	<ul style="list-style-type: none"> English Language Arts Regents exam 1 additional Regents exam or CDOS credential
Advanced Designation Diploma (Passing score of 65 or above on Regents Exams)	
<ul style="list-style-type: none"> ELA Global History and Geography US History and Government World Language Checkpoint B (or a 5 unit sequence) 	<ul style="list-style-type: none"> Life Science <i>and</i> a Physical Science Algebra 1 and Geometry and Algebra 2

*1 appealed exam with a 60-64% if exam is taken at least two times.

***Alternative assessments approved by the Commission of Education may be used in place of required state assessments.

Graduation Requirements

Designation of Academic Achievement

Honors	Average of 90 percent or higher on all Regents examinations required for a Regents or Regents with Advanced Designation diploma. Averages below 90.0 percent are not rounded upward to 90 percent.
Mastery in Math	Score of 85 or higher on each of the 3 Math Regents
Mastery in Science	Score of 85 or higher on any 3 Science Regents exams
Career and Technical Education Endorsement	Career and Technical Education (CTE) Technical Endorsement is an enhancement on a student's high school diploma in the form of a New York State Education Department seal indicating that a student has completed coursework in a state approved CTE program.

Local Diploma Pathways

Students with an IEP or 504 Safety Net	ELL students who entered the United States in Grade 9 or later	All students
<ul style="list-style-type: none"> All required Regents exams with a score of 55 or higher <p>OR Compensatory Option:</p> <ul style="list-style-type: none"> ELA and math exam with a score of 55, one exam 65 or higher and one social studies or science exam with a score of 45-54 <p>OR for Students with an IEP only:</p> <ul style="list-style-type: none"> Superintendents Determination of a Local Diploma-Student sits for all required exams, student meets the requirements for a CDOS credential, parent requests the Superintendent's Determination pathway be considered 	<ul style="list-style-type: none"> 3 required exams with a score of 65 or higher the ELA exam with an appeal score of 55-59 a fifth exam with a score of 60-64 with an appeal 	<ul style="list-style-type: none"> 3 required Regents exams with a score of 65 or higher 2 exams with appeals with a score 60-64

Commencement Credentials

Career Development and Occupational Studies (CDOS) Credential:

- The CDOS can be granted as part of a diploma pathway or as a stand alone credential
- A CDOS credential alone is not a diploma

Requirements for a CDOS:

- 216 hours (2 credits) of CTE courses 54 of which must be Work Based Learning showing attainment of CDOS learning credentials
- An employability profile completed within the last year of school

Skills and Achievement Commencement Credentials

- Only granted to students in Special Education whose IEP's state they are eligible to take alternate assessments other than Regents exams.
- Must meet CSE criteria for New York State Alternate Assessment

Counseling Department

College and Career Readiness

The department of counseling and student services provides a comprehensive curriculum intended to support all students in acquiring the skills, knowledge and attitudes needed to become effective students, responsible citizens, productive employees and lifelong learners. As an integral part of the school's total program, the Counseling Department's Curriculum adheres to the American School Counselor's Association National Model. This model is competency based and reflects three domains of service: academic, personal/social, and career development.

Counseling Services:

- Assistance with course selections
- Career Exploration
- Classroom counseling instruction
- Educational presentations for parents
- Individual, personal, social and academic counseling services as needed
- Yearly, individual four-year Plan meetings with all students
- Post-graduate planning

Naviance

Naviance is a web based software program for college/career exploration. Naviance provides students with a variety of features including college research and matching tools, course planning, career assessments and personality inventories to help students connect what they are doing in school, their interests and abilities to potential careers.

Additionally, Naviance's integration with "The Common Application" facilitates the submission of college applications, transcripts, school forms and recommendations through Naviance eDocs.

*This program is subject to change.

Freshman Year:

- Individual meetings to develop a flexible four-year educational plan
- Classroom presentation: Goals and Grades

Sophomore Year:

- Assistance in gaining information about careers, colleges and course choices
- Classroom presentation: social emotional learning
- Informational meetings for parents and students regarding post-secondary planning
- Individualized planning meeting

Junior Year:

- Individual planning meetings
- Informational meetings for parents and students regarding post-secondary planning and financial aid
- Information on PSAT, SAT and ACT testing
- Opportunities to meet with college representatives and career speakers
- Planning post high school opportunities through group and individual conferences
- Classroom presentation: College Search and Career Planning
- Scholarship information

Senior Year:

- Individual planning meetings
- Information regarding topics such as: financial aid, college entrance tests, careers and colleges
- Informational meetings for parents & students regarding post-secondary planning and financial aid
- Opportunities to meet with college representatives and career speakers
- Scholarship information
- Classroom presentation: Applying to Colleges; Military and Employment

Career & Technical Education



Career and Technical Education programs contain a related and continuous series of courses in a career and technical area. Academic and technical knowledge and skills within this series prepares students for further education or employment in a career. The program is supported by work-based experiences, integrated and specialized instruction, a Work-Skills Employability Profile, technical assessments, and data on student performance in academic and technical areas.

Students enrolled in this CTE program, who successfully complete all requirements, will earn a technical endorsement that will be affixed to their high school diploma.

A CTE program is offered in Business & Finance.

Requirements leading to the technical endorsement include:

- completion of a minimum of 22 units of credit
- passing grades on 5 required Regents examinations or approved alternatives
- successful completion of a 3-part technical assessment which is an industry-developed assessment consisting of written examinations, student projects, and student demonstrations of technical skills that measure proficiency in a specific technical field through the application of national standards
- completion of a work-based learning experience embedded in the program
- completion of a work-skills employability profile

Any student with a disability who successfully completes a CTE course will receive documentation of skills acquired in the career and technical education course. The skills identified in the documentation are those specified on the Work-Skills Employability Profile. The Work-Skills Employability Profile will provide employers with documentation of work skills acquired at the completion of the CTE program.

Students who want to enroll in this CTE program should inform their counselor of their decision so proper scheduling can occur.

Business & CTE

Academy of Business & Finance - 5 credits

Mandatory 1 Credit

Career Exploration and Financial Literacy (5)
Wall Street 101+ (5)

Choose 1-2 Credits

Business Management & Marketing+ (1)
Accounting+ (1)

Choose 1-2 Credits

Math with Business Applications (1)
Microsoft Applications+ (5)
Sports and Entertainment Marketing+ (5)
Business Cinema+ (5)
Business & Personal Law (1)
Entrepreneurship/ E-Commerce+ (5)

Mandatory 1 Credit

Work Based Learning (Co-op, 3 Job Shadows, or Internship) (1)

Assessments

NOCTI Business Financial Management
Final Project and Presentation (Employability Profile)

Business students will be eligible for the NYS Business and Marketing Honor Society by completing Financial Management CTE.

+ Dual-enrollment course

Academic Services

Academic Intervention Services

Gates Chili High School closely monitors the progress of all students to ensure that each student is on a path to meet the New York State Department of Education's graduation requirements. We follow the district's Academic Intervention Service Compliance Plan which outlines a student's eligibility for Academic Intervention Services (AIS) through a combination of state and/or district testing, school performance, and staff recommendations.

The AIS Committee meets throughout the year and uses the above criteria to decide student eligibility for support services in English, Social Studies, and/or Algebra. Students who are eligible for AIS "Direct Services" receive their support through credit-bearing, co-taught classes or through noncredit-bearing, small-group classes. Eligible students not receiving "Direct Services" are monitored throughout the year with an option of scheduling academic supports if necessary. The goal of AIS is to help students successfully develop literacy skills and content knowledge while preparing them to meet all graduation requirements.

English as a New Language (ENL)

This section is for informational purposes only. Eligibility for the following program and classes is determined by District and New York State guidelines.

The English as a New Language (ENL) Program serves the English language acquisition needs of students whose native language is not English. The Program focuses specifically on building academic language needed for success in high school so that students who are English Language Learners (ELL's) can be college and career ready. Students are placed in ENL classes based on their proficiency level in English. This level is determined either by the assessment they take when they first enter a New York State school, the NYSITELL (New York State Identification Test for English Language Learners), or by an annual measure of English language proficiency, the NYSESLAT (New York State English as a Second Language Achievement Test). New York State has identified 5 levels of English language proficiency: Entering (beginner); Emerging (low intermediate); Transitioning (intermediate); Expanding (advanced); and Commanding (proficient).

ENL Services for English Language Learners at the Entering through Transitioning levels involve two main components:

- ENL classes taught by a certified ESOL (English to Speakers of other Languages) teacher where English Language Learners receive instruction in all aspects of language learning (reading, writing, listening and speaking) to develop the academic language and background knowledge needed to be successful in content area classes.
- Integrated ENL and content area classes where ESOL teachers co-teach with content area teachers in content area classes required for graduation (English, Mathematics, Science, or Social Studies).

ENL Services for English Language Learners in the Expanding and Commanding levels are provided through Integrated ENL and content area classes only so that these students can receive any extra support needed to further their English language development.

The ESOL teacher and the students' general education teachers work closely together to help ensure student success. Students in the ENL Program are required to achieve the same Next Generation Standards and complete the same graduation requirements as all other students.

Program Information

Advanced Placement Program

The Advanced Placement (AP) Program is a cooperative educational endeavor sponsored by the College Board. Based on the fact that many young people can complete college-level studies in their secondary schools, it represents a desire of schools and colleges to foster such experiences. Like other programs of the College Board, this program is national; its policies are determined by representatives of member institutions and its operational services are provided by the Educational Testing Service.

Advanced Placement serves three groups: students who wish to pursue college-level studies while still in secondary school, schools that desire to offer these opportunities, and colleges that wish to encourage and recognize such achievement. Participating colleges may grant credit and appropriate placement to students who have done well on the examination.

Although the program provides a curricular guide and examination in each field, all colleges do not follow the same or even similar procedures upon receipt of AP Examination grades. Students should contact colleges directly to see what AP exams and scores are accepted. The District currently offers the following AP courses:

- AP American Government and Politics
- AP US History+
- AP Biology+
- AP Calculus
- AP Chemistry+
- AP Computer Science
- AP English Literature 12
- AP Environmental Science+
- AP Language and Composition
- AP Physics I+
- AP Physics C
- AP Precalculus
- AP Psychology
- AP Statistics
- AP World History+

Diversified Cooperative Work Based Learning Program

CO-OP

150 hours = ½ unit, 300 hours = 1 Unit

Internship

60 hours = ½ unit 120 hours = 1 Unit

CO-OP or Diversified Cooperative Work Experience is a New York State approved Work Experience Program geared towards juniors and seniors and affords participants with a chance to experience “first hand,” a career specific employment opportunity. With this, students can utilize many of the concepts and skills that they have developed throughout their educational and personal experiences. The CO-OP opportunity offers the student school credit using their current job. In addition to classroom instruction, the teacher-coordinator will provide on-site supervision.

Career Exploration Internship Program

The Career Exploration Internship Program (CEIP) is a non-paid internship experience that provides individualized career pathway placements for our students. The students may earn either ½ unit or 1 full unit of credit during their junior or senior year. This program provides students with the opportunity to gain insight and experience in occupations and careers based on their own individual interests.

NYS Dept. of Education Credit	Internship Hours	Seminar Hours with Coordinator
½ unit	60	27 hours (1 period per week plus independent work)
1 unit	120	54 hours (1 period per week plus independent work)

Note: Transportation required if placement is during school hours.

Career Shadowing Program

The Career Shadowing Program is designed to provide the students of Gates Chili High School with the opportunity to investigate, observe, and evaluate specific occupations which may be related to their potential career interests. Students will spend a workday, or part of a workday, with a Career Shadowing Mentor who is currently employed in the occupation the student wishes to research.

+ Dual-enrollment course

Course Add/Drop Process

Course requests are shared with the students and their families early in the scheduling process. Students who have engaged in the course selection process should have a well planned schedule that does not require changes. A course can be added and/or dropped within the first 5 days of classes. At no point will a student be allowed to drop a class and be below 6.5 credits for that school year. After the first 5 days, changes are only made for educational reasons. The following factors will be considered:

1. Academic progress
2. Utilizing academic supports such as: 9th period or the Hub
3. Communication between parent/guardian and teacher
4. Post secondary plans
5. Extenuating circumstances

*All dropped classes are subject to having a WF (withdraw fail) or a WP (withdraw pass) on their transcript.

Course Load Requirements

Students are required to maintain a minimum course load of 6.5 credits each year.

Course Selection

The academic requirements for Mathematics, Science, English and Social Studies are essentially the same for all students. The materials used, the depth of content studied, and the methodology varies depending upon the level of the selected course. Teacher recommendation for course selection will consider student academic achievement, test taking skills, performance on standardized achievement tests, student effort, and interest in the subject matter.

Advanced Placement (AP) - courses that culminate in an Advanced Placement exam. High school students can earn college credit for qualifying AP exam scores. The college credit option does require a fee.

Dual Enrollment (+) - courses that offer students the opportunity to concurrently earn college and high school credit. In order to receive the college credit students are required to pay a reduced course fee.

Honors (H) – courses for students who are eligible for enrichment and/or acceleration.

Regents (R) – courses culminating in a Regents examination.

Courses in other subject areas, and/or electives, are designed for students to achieve success at all academic levels.

Crossroads Program

The Crossroads Program is a “school within a school” that strives to provide the additional support students need in order to succeed. It is designed to meet the individual needs of students, who have, for a variety of social, emotional, or academic reasons, not met with success within a traditional school setting. Crossroads provides numerous experiences and opportunities for students to reinvest themselves into their education, experience success, and meet New York State Learning Standards and earn a high school diploma.

A student who is referred to Crossroads will be reviewed for possible acceptance to the program by the Crossroads Committee.

Dual Enrollment

The Dual Enrollment Program is a cooperative educational endeavor presently between Gates Chili High School, Monroe Community College, Genesee Community College, Roberts Wesleyan College and Syracuse University. There are numerous courses offered between the colleges and Gates Chili High School. These courses are identified by a + at the end of the course title. In order to receive the college credit students are required to pay a reduced course fee.

Courses identified as Dual Enrollment (+) may change annually.

Latin Honors System

Students have an opportunity to earn distinctions at graduation through a Latin honor system. Latin honor designation falls into three categories, each with its own minimum unweighted cumulative GPA requirement. These include:

Summa Cum Laude (with highest honor): GPA of 95.0-100

Magna Cum Laude (with great honor): GPA of 90.0-94.99

Cum Laude (with honor): GPA of 85.0-89.99

For more information about the GCHS Latin Honor system, visit gateschili.org/LatinHonors

In lieu of the of the honor roll system, students will be recognized quarterly based on the same criteria listed above. This change will align our quarterly recognition with the Latin Honor system being used at graduation.

NCAA Eligibility

The NCAA Eligibility Center certifies the academic and amateur credentials of student-athletes intending to participate in intercollegiate athletics at the Division I or II level. **It is the responsibility of each individual student-athlete to make sure that their courses are approved by the NCAA yearly.**

Gates Chili School District has a list of NCAA approved courses, code 334803, on the Eligibility Center website (www.eligibilitycenter.org). All Division I or II athletes use code 9999 when reporting ACT or SAT scores to the NCAA eligibility center.

- Click on the “NCAA College Bound Student- Athlete” link to enter the site.
- Navigate to the “Resources” tab and select “U.S. Students” where you will find the link for the list of NCAA course.

After checking the list and completing the registration process, visit the HS Counseling Center to request an initial copy of your transcript be sent to the Eligibility Center. Students who have attended more than one HS, will need to request transcripts from each HS. A final transcript will be sent to the NCAA upon graduation.

Seal of Biliteracy

Gates Chili High School is pleased to announce participation in the New York State Seal of Biliteracy Program. In recognition of the importance of bilingualism, many states have begun to award a Seal of Biliteracy to students who have studied and attained a high level of proficiency in English and another language by high school graduation.

The Seal of Biliteracy is a prestigious award that lets colleges and employers know that you are proficient in more than one language. It is a distinction that will be attached to diplomas and transcripts of graduates who have demonstrated language mastery in both English and any other language.

Any student working towards proficiency in reading, writing, listening and speaking in English and another language can apply. High school counselors and language teachers will assist students who are eligible to apply for this seal of distinction. Planning will typically begin during the 10th grade year. School counselors will ensure that all necessary courses are in the student’s course load to achieve the seal. Students are eligible to apply for the New York State Seal of Biliteracy at the beginning of their junior or senior year.

In addition to completing all requirements for graduating with a NYS Regents diploma, students wishing to receive the NYS Seal of Biliteracy must also demonstrate proficiency in both English and another language. Students will need to earn 3 points in World Language and 3 points in English. Additional information about the criteria, as well as an application packet, is available in the counseling office or on the Gates Chili High School website.

<https://www.gateschili.org/Domain/963>

Seal of Civic Readiness

The New York State Seal of Civic Readiness (NYSSCR) is a formal recognition that a student has attained a high level of proficiency in their Social Studies coursework and demonstrated civic engagement. Having this special designation on a transcript and diploma signifies the following demonstrated domains: civic knowledge, skills and actions, mindsets, and experiences. Any student who is interested in going beyond the standard curriculum in civics education can apply. High School counselors and social studies teachers will assist students who are eligible to apply for this seal of distinction. Students starting their junior or senior year are eligible to apply for the NYSSCR once they have completed Global History and Geography course and passed that Regents. In addition to graduation requirements in Social Studies, students have a choice of completing more in-depth studies and civic engagement to meet requirements.

Course Selections

Art

Art Department Sequences

Students may use a 5-unit sequence in Art to replace the 3 required units of language for the Regents with Advanced Designation Diploma.

Individual Arts Assessment Pathway

The Individual Arts Assessment Pathway (IAAP) is 4+1 graduation pathway option in which students complete a locally determined three-unit sequence in the arts and demonstrate, through a collection of creative works, growth over time that meets the High School II Accomplished Performance Indicators in the New York State Learning Standards for the Arts.

The artistic method(s), media, or form(s) students use to meet the appropriate State developed IAAP criteria are based on student artistic and research interests in consultation with their arts teachers.

The IAAP offers arts students a graduation pathway that prepares them for future professional and educational experiences and opportunities in the arts.

The Individual Arts Assessment Pathway (IAAP) is a graduation pathway option

Students demonstrate growth over their high school career through a collection of creative works

This pathway is for Art and/or Music students pursuing either a Regents Diploma or a Regents Diploma with advanced designation

Art Department Information

Studio Art+

Successful completion of Studio Art+ is the prerequisite for Drawing, Advanced Drawing, Painting, Sculpture and Advertising & Graphic Design.

**Any 12th grade student who now has room in their schedule for art electives may bypass the prerequisite of Studio Art.

The student's school counselor and the Art Department must meet to discuss any senior bypassing the prerequisite.

1. Studio Art+
2. Drawing*
3. Advanced Drawing*
4. Painting I*
5. Painting II*
6. Sculpture*
7. Advertising & Graphic Design*
8. Printmaking
9. Jewelry
10. Computer Graphics & Animation+
11. Digital Photography
12. Ceramics
13. Portfolio Preparation/Advanced Studies

Studio Art+ is a prerequisite for these courses

***Advanced Drawing**

Semester Course ½ Unit
Grades 10-12

Prerequisites: Studio Art+ and Drawing

This course is designed for students to develop advanced drawing skills and techniques. Individual artistic expression and exploration is encouraged with a strong focus on composition, presentation and quality. Students will work with a variety of mediums including pencil, charcoal, watercolor, ink, pastel and colored pencil.

***Portfolio Preparation/Advanced Studies**

Full-Year Course ½ Unit
Grade 12

Prerequisites: Studio Art+, Drawing, plus one other art course.

This course is designed specifically for seniors interested in pursuing art as a career. Students will research colleges pertaining to their desired field in order to complete the required portfolio for admission. Students will be working on individual projects according to their field of choice and exploring new mediums. Work will be in-depth and individual. Exposure to museums, galleries and local artists is a focus in Advanced Studies and students are encouraged to attend local artist events. A digital portfolio will be created where the final portfolio will count as the final exam for the course. This course is designed to expand and enhance student's creativity, experiences and skills.

***Advertising & Graphic Design**

Semester Course ½ Unit
Grades 10-12

Prerequisite: Studio Art+ or Art Teacher recommendation

The advertising and Graphic Design class is designed to provide students with knowledge and skills in the graphic design profession, which emphasizes design, advertising, illustration, and digital and multimedia preparation of printed and electronic promotional materials.

Students will be trained in the development of concept and design for promotional materials such as newspaper and magazine advertisements, posters, folders, letterheads, corporate symbols, brochures, booklets, preparation of art for printing, lettering and typography, photography and electronic media. Adobe software.

Ceramics

Semester Course ½ Unit
Grades 10-12

Prerequisite: None

This course provides an exploration of the history, uses and properties of clay. The student will create using hand-building techniques: pinching, coil, slab, and combinations as used in pottery and sculpture. The use of the wheel is demonstrated and students spend time throwing basic forms that may include cylinders, bowls, plates, and bottles. Students work with surface treatments including paint, textures, colored slips and glazes, and non-firing stains.

Computer Graphics and Animation+

Semester Course ½ Unit
Grades 9-12

Prerequisite: None

Computer Graphics and Basic Animation is a studio course that deals with the creation of computer generated designs while incorporating the Elements of Art and Principles of Design. Students in this course will use the computer and other electronic media as design tools to communicate visual ideas and demonstrate a variety of approaches to artistic creation. The featured software is Adobe Illustrator, Adobe Photoshop and Adobe After Effects. Some computer knowledge is helpful.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Digital Photography

Semester Course ½ Unit
Grades 9-12

Prerequisite: None

Studio in Digital Photography is an introduction to the historical, technical, operational and creative aspects of digital photography. The course will focus on the production of digital images and visual sequences that tell a story, communicate an idea, illustrate a theme, or convey a message. Techniques of planning, refining, capturing and manipulating images will be explored in a workshop type atmosphere.

***Drawing**

Semester Course ½ Unit
Grades 10-12

Prerequisite: Studio Art+

This course is designed to be an introductory course to drawing and drawing mediums. Contour drawing, shading, still life and colored pencil are some of the units of study that will be explored. Various pencil weights as well as mixed medium will be used. Students will refine their drawing skills as well as enhance their individual ability in drawing and in drawing presentation.

+ Dual-enrollment course

Jewelry

Semester Course ½ Unit
Grades 10-12

Prerequisite: None

This course teaches the techniques, processes and designs of jewelry making. The primary objectives are exploring the development of skills, the use of tools, and refinement of craftsmanship in jewelry. Students will create unique pieces using sterling silver, copper and semi-precious gem stones. Students will also be exposed to enameling, soldering and other metal use. Other alternatives in materials may be purchased; the cost of materials of required projects will vary from \$15.00 to \$20.00.

***Painting I**

Semester Course ½ Unit
Grades 10-12

Prerequisite: Studio Art+

This course presents the beginning techniques of painting. Emphasis is placed on drawing and composition both realistic and abstract. Surfaces, brushes and different kinds of paint are studied and applied. Acrylic paint is used to create landscape, imaginary and still life paintings. Over fifty artists are studied and their techniques applied to individual artwork.

***Painting II**

Semester Course ½ Unit
Grades 10-12

Prerequisites: Studio Art+ and Painting I

The second half of this course explores advanced painting techniques and subject matter. An individualistic approach allows the student to do research and personally express themselves. It is a continuation of the study of art history in painting as well as an in-depth research of artists and periods in art.

Printmaking

(Offered every other year opposite Sculpture – odd years starting with 2025)

Semester Course ½ Unit
Grades 10-12

Prerequisite: None

Printmaking is one of the oldest art forms! The printmaking course provides students with the opportunity to learn the four main printmaking processes and execute prints using each technique. The processes used include intaglio, relief, monoprint and stencil (silkscreen). Students will work with graphic images and reproduce multiple copies of their art and learn how to properly mat their prints. Printmaking is unique in that the students are able to reproduce multiple copies of their artwork and learn ways in which professional artists and designers have their work reproduced.

***Sculpture**

(Offered every other year opposite Printmaking – even years starting with 2026)

Semester Course ½ Unit
Grades 10-12

Prerequisite: Studio Art+ or Art Teacher recommendation

In this course the students will learn to see and portray man-made and organic objects as well as the human figures sculpture. They will learn to utilize a variety of materials and processes such as clay modeling, woodcarving, assemblage, additive and direct plasterwork. Students will select appropriate methods to pursue the realization of their creative concepts. Historical and theoretical issues addressed through lectures and digital slide presentations. This class will introduce the use of sculptural form as a vehicle for the creative expression of personal ideas and contemporary concepts. Emphasis will be placed on an awareness of the qualities of materials and how they can be employed to support aesthetic and conceptual objectives. Areas of study include realistic and abstract sculpture in wire, wood, paper, plaster, plastics, papier-mâché and found object.

Studio Art+

Full-Year 1 Unit
Grades 9-12

Prerequisite: None

Studio Art+ is the prerequisite for several art courses and is the foundation course of the Art Department.

This course is designed to give students access to a variety of mediums. It is an introductory course that focuses on the Elements and Principals of Design, with a focus on mediums where we offer upper level classes. These mediums include (but are not limited to) drawing, painting, printmaking, sculpture, colored pencil, Photoshop and Illustrator.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Business

Business Offerings at a Glance

Full-Year Course Offerings

Accounting+	9	10	11	12
Business and Personal Law+		10	11	12
Business Management & Marketing+		10	11	12
Diversified Cooperative Work Based Learning (Co-op)			11	12
Math with Business Applications			11	12
Career Exploration Internship Program (CEIP)			11	12

Half-Year Course Offerings

Microsoft Applications+	9	10	11	12
Career Exploration and Financial Literacy	9	10	11	12
Wall Street 101+		10	11	12
Entrepreneurship/ E-Commerce+	9	10	11	12
Sports and Entertainment Marketing+	9	10	11	12
Career Exploration Internship Program			11	12
Business Cinema+	9	10	11	12

Business/Marketing Education Sequences

Business/Marketing – 5 Unit Sequence

Students may use a 5-unit sequence in business to replace the 3 required units of language for the Regents with Advanced Designation Diploma.

A combination of any of the following courses:

Accounting+	(1)
Business and Personal Law+	(1)
Business Management & Marketing+	(1)
Career Exploration and Financial Literacy	(.5)
Microsoft Applications+	(.5)
Diversified Co-Op	(1)
Math with Business Applications	(1)
Wall Street 101+	(.5)
Sports and Entertainment Marketing+	(.5)
Entrepreneurship and E-Commerce+	(.5)
Business Cinema+	(.5)

Career & Technical Education Endorsement

Academy of Business - 5 credits

Mandatory 1 Credit

Career Exploration and Financial Literacy	(.5)
Wall Street 101+	(.5)

Choose 1-2 Credits

Business Management & Marketing+	(1)
Accounting+	(1)

Choose 1-2 Credits

Math with Business Applications	(1)
Microsoft Applications+	(.5)
Sports and Entertainment Marketing+	(.5)
Business Cinema+	(.5)
Business & Personal Law	(1)
Entrepreneurship/ E-Commerce+	(.5)

Mandatory 1 Credit

Work Based Learning (Co-op, 3 Job Shadows, or Internship)	(1)
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Assessments

NOCTI Business Financial Management
Final Project and Presentation (Employability Profile)

Business students will be eligible for the NYS Business and Marketing Honor Society by completing Financial Management CTE.

+ Dual-enrollment course

Diversified Cooperative Work Based Learning Program

Prerequisite: Teacher-Coordinator Permission

CO-OP

150 hours = ½ unit, 300 hours = 1 Unit

Internship

60 hours = ½ unit 120 hours = 1 Unit

CO-OP or Diversified Cooperative Work Experience is a New York State approved Work Experience Program geared towards juniors and seniors and affords participants with a chance to experience “first hand,” a career specific employment opportunity. With this, students can utilize many of the concepts, procedures, and skills that they have developed throughout their educational and personal experiences. The CO-OP opportunity offers the student school credit using their current job, whereas the Internship is school credit related to a career pathway. In addition to classroom instruction, the teacher-coordinator will provide on-site supervision.

Career Exploration Internship Program

The Career Exploration Internship Program (CEIP) is a non-paid internship experience that provides individualized career pathway placements for our students. The students may earn either ½ unit or 1 full unit of credit during their junior or senior year. This program provides students with the opportunity to gain insight and experience in occupations and careers based on their own individual interests. In addition to classroom instruction, the teacher-coordinator will provide on-site supervision.

NYS Dept. of Education Credit	Internship Hours	Seminar Hours with Coordinator
½ unit	60	27 hours (1 period per week plus independent work)
1 unit	120	54 hours (1 period per week plus independent work)

Note: Transportation required if placement is during school hours.

Business and Personal Law+

Full-Year Course

1 Unit

Grades 10-12

Prerequisite: None

This course is designed to give students a practical knowledge of their rights and obligations in ordinary business transactions. Realistic examples are used to teach a wide range of legal concepts. A variety of videos, speakers, and activities are planned to reinforce classroom discussion. Business and Personal Law serves as an excellent background for those contemplating business courses in college and is recommended to both business and academic students. Credit for this course may be used to meet sequence requirements of Business/Marketing education and/or the fifth unit of Social Studies in a 5-unit Social Studies sequence only for students pursuing an occupational sequence.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Business Cinema+

Semester Course

½ Unit

Grades 9-12

Prerequisite: None

Using a cinematic approach, this course addresses the concepts and challenges businesses face in studying business topics using current digital media and instruction (movies, online videos, podcasts, websites, web 2.0 tools...). The unique media and cinematic instructional format allows students the additional learning experiences from a variety of current digital media resources to develop a real world foundation and expand their knowledge and resources of all of the areas of business. Themes include the digital age of business and consumers, management, finance, small business, globalization, social responsibility, online presence and many more topics. Students will increase their awareness of the overall environment and function of business as well as observe role in the digital society.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

+ Dual-enrollment course

Business Management & Marketing+

Full-Year Course 1 Unit
Grades 10-12

Prerequisite: None

This is an excellent course for students who are thinking of majoring in business in college or for those who want to gain essential business knowledge to create better opportunities for future success in any career pathway. Business Management/Marketing emphasizes a hands-on approach to introduce students to the fundamental functions of business management and marketing concepts within all types of organizations. Students will develop and run their own virtual company using specialized business simulation software to understand the interrelationships of the basic business functions of management and marketing. Students will learn and demonstrate skills in word processing, spreadsheets, databases, internet research, and presentations that are common in business and industry today. Students may have the option to receive college credit hours. The college credit option DOES require a fee.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Career Exploration and Financial Literacy

Semester Course ½ Unit
Grades 9-12

Prerequisite: None

This graduation requirement is designed to expose students to career and financial awareness by completing the content from the NYSED-approved "Career & Financial Management" curriculum. Financially literate learners will gain an understanding of and develop skills and knowledge needed to make informed decisions in a rapidly changing world. Using Naviance as a resource, students will explore emerging workplace trends and develop employment skills which include resume writing and interviewing. Topics discussed will include budgeting, banking, savings, credit, insurance, investing, and career planning.

Gates Chili graduation requirement.

Required course for CTE endorsement on the diploma.

Accounting+

Full-Year Course 1 Unit
Grades 9-12

Prerequisite: None

Upon completion of this course the student should be able to keep a simple set of books. Students planning on majoring in Accounting or Business Administration in college and students planning on owning their own business will find this course extremely beneficial. This course gives an overview of accounting systems and processes with particular emphasis on the principles and procedures of the complete accounting cycle. It also provides opportunities for computer utilization in Microsoft Excel. Subsystems for handling cash receipts, cash payments, purchases and sales of merchandising business are also presented.

Note: Students may take this course as a business elective or a third year of mathematics.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Entrepreneurship/E-Commerce+

(Start Your Own Business)

Semester Course ½ Unit
Grades 9-12

Prerequisite: None

Entrepreneurship/E-Commerce focuses on recognizing a business opportunity, starting a business based on the recognized opportunity, and operating and maintaining that business. This course includes planning and strategy concepts, financial and organizational considerations, personal selling and customer service skills, accounting and financial controls, time management, materials management, human resources management, facilities management, teamwork, decision making, problem solving, work ethics, and creative thinking. Students will have the opportunity to gain skills in emerging technologies that become the standard for conducting global business (E-Commerce).

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Microsoft Applications+

Semester Course ½ Unit
Grades 9-12

Prerequisite: None

This college level hands-on computer application course is designed to provide students an in-depth understanding of the most popular software applications used today. Students will become proficient in the many features of Microsoft XP Office Suite and other popular software programs. Upon successful completion students will be able to walk into a professional office and perform many of the same tasks that are being done in business today. Such tasks as preparing professional word processing documents, creating formula based spreadsheets with graphs, constructing and manipulating databases, preparing images using Adobe Photoshop Elements, composing multimedia presentations, creating brochures using desktop publishing, Internet applications and basic movie/video production will be covered. Students will integrate a variety of software applications and the Internet for research into a culminating project. If available, students may choose the option to receive 4 college credit hours for this course. The college credit option DOES require a fee.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Sports and Entertainment Marketing+

Semester Course ½ Unit
Grades 9-12

Prerequisite: None

Marketing is a tool that has allowed the United States economy to be one of the most successful in the world. Sports and Entertainment play an important role in marketing and are important parts of this modern economy. Sports and entertainment marketing is one of the largest exports from the United States to the rest of the world. This course will teach students about basic elements of marketing and how these elements are applied to organizations involved in sports and entertainment industries. Computer technology will be used daily to support and enrich the curriculum. Over two hundred American universities today offer major concentrations in sports and entertainment marketing.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Wall Street 101+

Semester Course ½ Unit
Grades 10-12

Prerequisite: None (Business Unit)

The intention of this course is to expand student knowledge of their personal finances now and in the future. This course gives in-depth understanding into how students can manage their finances and why financial management is critical to personal success. Topics covered include: consumer purchasing strategies, consumer credit, fundamentals of investing (i.e. stocks, bonds, and mutual funds), real estate, insurance, financial management for businesses, accounting, and tax strategies. Computer applications will be coordinated for each unit. Guest speakers will be coordinated with each unit. The course focuses on the student's role as a citizen, student, family member, consumer, and active participant in the work and business world. The intent is to inform students of their various economic and financial responsibilities and to provide opportunities for self-awareness, expression, and advancement in a progressive and highly competitive society. Students will become knowledgeable of exciting career opportunities relating to the financial world.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Math with Business Applications

Full-Year Course 1 Unit
Grades 11-12

Prerequisite: None

This full year course covers fundamental mathematical operations and their application to business problems. Basic concepts and processes of mathematics are applied to various business situations including statistical analysis, merchandising, taxation, personal finance, payroll, financial statements, inventory, investments and other pertinent uses of mathematics in the field of business. Upon completion, students should be able to apply mathematical concepts for business and personal use.

English

English 9

Full Year Course

1 Unit

Prerequisite: English 8

This course is designed to build upon the fundamental skills in reading, writing and communication, as well as to foster the skills necessary for becoming college and career ready. The Next Generation Learning Standards are the foundation of this course with specific emphasis on reading both literature and informational text. Through the writing process, students are exposed to all styles of writing including persuasive, informational, explanatory, and narrative writing, while instruction is given on preliminary grade level research skills and language proficiencies. Organization and independence will be grown this year to aid students in developing proficiency in the rigors of high school and the New York State Assessment to be given in 11th grade.

English 9H

Full Year Course

1 Unit

Prerequisite: English 8 or Teacher Recommendation

9th grade honors welcomes students who are capable of above average reading and writing skills. These students have already shown an above average proficiency in the writing process and are prepared to challenge themselves with another level of structure, writing, and critical reading of complex texts. This class will explore many of the same themes and genres as other 9th grade classes but will develop more depth in analysis and nurture more independent study. Next Generation Standards in English will be stressed with a central focus on creating college and career ready students, while preparing them for the New York State Assessment to be given in 11th grade.

English 10

Full Year Course

1 Unit

Prerequisite: English 9

This course is designed to reinforce the developed skills in reading, writing, and communication taught in English 9/9H. It continues to build upon the necessary skills for becoming college and career ready as discussed in the Next Generation Learning Standards. Further emphasis on reading both literary fiction, as well as non-fiction and rhetoric, will be presented to develop critical reading and thinking skills. Students will also continue to improve upon their understanding of the writing process through exploring all genres of essay and responses. They will be further challenged to comprehend and analyze multiple complex texts and develop thoughtful responses in an effort to prepare them for the New York State Assessment Exam given in 11th grade.

English 10H

Full Year Course

1 Unit

Prerequisite: English 9, 9H or Teacher Recommendation

10th grade honors continues to build the rigor established in 9th grade honors and is designed to increase the students' ability to analyze literature of all genres with depth in responses both verbal and written. Further emphasis on reading both literary fiction, as well as non-fiction and rhetoric, will be presented to develop critical reading and thinking skills. This class will also increase students' ability to work independently and push themselves to new levels of sophistication while writing. Next Generation Standards in English will be stressed with the central focus on creating college and career ready students while still preparing them for the New York State Assessment given in 11th grade.

English 11

Full Year Course

1 Unit

Prerequisite: Successful completion of English 10 or 10H

The design of this course is to refine the skills previously taught in reading, writing and communication in the past two years of high school English. The course continues to focus on preparing students to become college and career ready. The Next Generation Learning Standards for 11th grade are the basis of this course and further emphasis reading challenging and grade appropriate complex texts of fiction and non-fiction. Raising the level of sophistication in students writing through discussions of language use and writing with purpose will be a cornerstone of the writing curriculum as the students will be exposed to materials that will better prepare them for passing the New York State Assessment in June.

AP Language and Composition

Full Year

1 Unit

Prerequisite: Successful completion of English 10, 10H or Teacher Recommendation

AP Language and Composition is designed for highly motivated students who enjoy critical thinking while reading complex texts and challenging themselves and others through argumentative writing. This course will focus on rhetorical strategies found in good writing and developing their own use of these strategies in their responses. Central to this course is the study of language and how it is used by professionals as well as learning to emulate those techniques. The culmination of this class is the Advance Placement exam, that gives the class its name, which is given in May. Students will also be required to take the New York State Regents Assessment in June.

AP Literature and Composition

Full Year Course

1 Unit

Prerequisite: Successful completion of English 11, AP Language and Composition or Teacher Recommendation

AP Literature and Composition welcomes students who have a love for literature in all its forms. Students taking this course should enjoy engaging in discourse on literature, its themes, and techniques to produce great works. Through close reading of selected classical works, students will refine their ability to read literature perceptively and to express themselves in precise, graceful, well-organized prose. The class does require a major research paper and will prepare students for the AP Literature and Composition exam in May.

Exploring Humanities+

Full Year Course

1 Unit

Prerequisite: Successful completion of English 11 or AP Language and Composition

- Dual Credited through RIT – ENG 150 Future of Writing
- NCAA approved

While studying trends in literature, visual arts, film, music, and societal philosophies, students will hone their skills in analysis and communicating clearly. This is all while taking advantage of hands-on opportunities such as field trips to museums, theaters and guest speakers. Students will develop an appreciation for all branches of human culture while learning research skills, literary analysis, and the craft of writing effectively. Compositional instruction will extend students' skills in creative, informative, persuasive, and analytic writing to ensure students are prepared for college and career as it will require a major research project.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Message to Students:

The following half year courses will enable you to follow your own interests in English. By choosing this path, you will be required to pick two classes to complete the full unit needed for your English requirement in your senior year. For those students who have chosen one of the full year classes listed previously, these classes can be taken for elective credit. Semester offerings will depend on student registration and teacher schedules.

Creative Writing

½ year course

½ Unit

Prerequisite: Successful completion of English 11 or AP Language and Composition

Harness your craft. Hone your language tools. This class will develop students' interest in creative writing in multiple genres from short stories and plays to poetry. Students will learn methods of developing their creativity and how to manipulate language through the writing process. There will be brief studies of master works to better understand style and writing methods of master craftsmen. This class will have a required research project connected to it and is designed as a ½ credit towards the required full credit of English needed for Senior year and graduation.

Public Speaking

½ year course

½ Unit

Prerequisite: Successful completion of English 11 or AP Language and Composition

Make yourself heard and better understood. Find your confidence. This class will hone students' skills in writing effective speeches and delivering them to various audiences. By gaining practice with the different types of speeches (formal, informal, persuasive, informative, etc.), students will grow in confidence and verbal communication. Students will learn the components, styles, and techniques involved in public speaking and will find the course highly participatory in nature. There will be personal, peer and teacher evaluations in order for students to learn and evolve as writers as well as presenters. The class will have a required research project connected to it and is designed as a ½ credit towards the required full credit of English needed for Senior year and graduation.

Film as Literature

½ year course ½ Unit

Prerequisite: Successful completion of English 11 or AP Language and Composition

Film and literature have always been in the same family and in this course this relationship will be fully explored. This course has been designed to show students how film is a form of literature. By viewing classic and modern films, students will learn that quality films, like quality literature, have certain elements in common. Students will be expected to understand motif, themes, plot, and other literary elements as they relate to both film and literature. Furthermore, students will have the opportunity to develop an appreciation for the interaction of film elements like scripting, directing, and acting to name a few. There will be several genres of film explored throughout the semester, and they may also read literature that corresponds with some of the films we view. Their knowledge of the various elements of literature and cinema will be used to analyze and critique films viewed in class. We will accomplish through the discussions, compositions, projects, field trips to movie theaters, and other various assessments. The class will have a required research project connected to it and will give you a half credit towards the required full credit of English needed for Senior year and graduation.

Multi-Media and Communications

½ year course ½ Unit

Prerequisite: Successful completion of English 11 or AP Language and Composition

Our world is surrounded by several forms of media. From our social platforms to traditional news outlets, we can't seem to get away from information. This course is designed to help create more media savvy students. It will look at a broad spectrum of media sources and the many ways we communicate in our modern world. Students will explore social media, reliability of sources, responsibility and ethics in media, current issues and podcasts to name a few. Furthermore, students will develop their ability to produce writing using different genres. This class will have a required research project connect to it and will give you a ½ credit towards the required full credit of English needed for Senior year and graduation.

Literature and Language

½ year course ½ Unit

Prerequisite: Successful completion of English 11 or AP Language and Composition

Looking for something more traditional? With continued focus on developing reading and critical thinking skills for the next phase of students' lives in career and college, this class is for you. Students will read literature from multiple genres, develop their abilities to analyze complex text and continuing work with the writing process. The class will have a required research project that will allow the students to illustrate their proficiency with the skills they have been working with throughout high school. It will give you a ½ credit towards the required full credit of English needed for Senior year and graduation.

Introduction to Education

½ year course ½ Unit

Prerequisite: Successful completion of English 11 or AP Language and Composition

Specifically designed for students who are planning to pursue a career in the field of education. This course is an excellent opportunity to gain a fundamental understanding of curriculum, teacher ethics, career awareness, student diversity, and current issues related to school operations. Students will explore critical topics such as current learning standards, the components of lesson planning, teaching strategies, and professional expectations. This course will require a research project and will give you a ½ credit towards the full credit needed for Senior year and graduation.

Family & Consumer Sciences

Family and Consumer Sciences programs are caring, hands-on, relevant and diverse. They prepare all students to be competent, confident and caring in managing their personal, family and work lives. They provide education and training for related careers and teach valuable life skills. Students who choose to be Family and Consumer Sciences majors may waive the foreign language graduation requirement with a 5 unit sequence of Family and Consumer Sciences for the Regents with Advanced Designation Diploma.

Half-Year – ½ Unit Courses:

- Foods I
- Foods II
- American Regional and Foreign Foods

Full-Year – 1 Unit Courses

- Creative Design for Fashion and Home
- Developing Child+
- Food Science

Food Science: The Biochemistry Of Food and Nutrition

Full-Year Course **1 Unit**
Grades 11-12

Prerequisite: None

What turns cucumbers into pickles? Is it the mayonnaise or the tuna that makes tuna salad spoil in the sun? Using the scientific method, students will understand the science behind the foods they eat. Students need to complete 1200 minutes of lab time (30 labs). Covered topics include: laboratory experience, chemistry fundamentals, science of nutrition, chemistry of food, and microbiology of food processing.

Note: Students may take this course as a third year of science.

American Regional and Foreign Foods

Semester Course **½ Unit**
Grades 10-12

Prerequisite: Foods I

The Regional and Foreign Foods course introduces students to the ways in which the culture and traditions of regions and countries influence food choices. Students will identify and prepare foods from various regions and countries to compare cuisines, ingredients used, and preferred cooking methods. Students will also examine the issues and conditions which affect the availability and quality of food in the global market. Current issues related to global nutrition from production through consumption will be explored. Through this investigation students will understand and appreciate diverse cultures. Students will have the opportunity to examine the wide variety of career paths in the regional and foreign foods fields and identify the knowledge and skills necessary for success within these fields.

Foods I

**Previously called Intro to Culinary Arts I*

Semester Course **½ Unit**
Grades 9-12

Prerequisite: None

Love to watch the Food Network and test out the recipes in the kitchen? Then this is the course for you. Student cooking labs and teacher demonstration provide practical experience in helping students apply nutrition knowledge, food safety and sanitation to everyday living; develop skills in menu planning, food purchasing, preparation and service. Some of the foods prepared and concepts taught include; quick breads, cookies, fruits, vegetables, milk products and meats. Students will also explore careers and employment opportunities in the field of Hospitality Management.

Foods II

**Previously called Intro to Culinary Arts II*

Semester Course **½ Unit**
Grades 9-12

Prerequisite: Foods I (*Previously called Intro to Culinary Arts I*)

Cooking takes on a creative flair in this advanced course which focuses on preparation techniques, appearance and presentation of foods. The cooking labs and teacher demonstration explore foods such as soups and salads, breads, pizza, pies, cake decorating and appetizers. Student lab experience is a major portion of this course.

Creative Design for Fashion and Home

Full-Year Course 1 Unit
Grades 9-12

Do you enjoy watching shows such as House Hunters, Flip or Flop or Project Runway? Do you have aspirations to work on the Fashion Runway? Do you love to decorate your space? Is it difficult to find clothes you like or that fit? The course will explore how culture and environment influences design in relation to the past, present and future. Through hands on experiences students will apply design elements and principles while creating fashions and home décor. Students will manage a household budget with hands-on creative projects. Students will create hands on projects and learn basic sewing skills.

Note: All students may use this course to satisfy the required one unit of Art/Music credit for graduation.

The Developing Child+

Full-Year Course 1 Unit
Grades 10-12

Prerequisite: None

"TLC - touching, loving, caring." These are just a few of the elements essential in rearing children, a life-long responsibility, taking a great deal of time and energy. This course helps students, male and female, to understand the role of educators/parents/caregivers and the development of children and their care- prenatal to school age. The course covers the ages and stages of development including; physical, cognitive, social/emotional, communicative and creative. The course is designed to develop skills and philosophies in caring for and teaching children; including arranging safe and healthy learning environments. Students will have hands on learning experiences in a simulated pregnancy and caring for REAL CARE BABY. Students will practice lesson planning, assessment techniques and the value and importance of play in children's lives. The course includes care of children with special needs, the teacher's role and developing an anti-bias outlook through the eyes of a student, teacher and family members. This is a year long class offered as dual enrollment - students have the opportunity to earn 6 college credits.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Diversified Cooperative Work Experience

Full-Year Course
Grade 12

Prerequisite: Teacher-Coordinator Permission

175 hours = ½ unit 350 hours = 1 unit

Diversified Cooperative Work Experience is a New York State approved Work Experience Program geared towards seniors and affords participants with a chance to experience "first hand," a career specific employment opportunity. With this, students are able to utilize many of the concepts, procedures, and skills that they have developed throughout their educational and personal experiences. This opportunity offers the student a paid position with experiential learning. The process is designed to allow students to explore and analyze their future aspirations while making connections to their educational experiences and personal interests. In addition to classroom instruction, the teacher-coordinator will provide on-site supervision.

+ Dual-enrollment course

Health

First Aid

Semester Course **½ Unit**
Grades 10-12

Prerequisite: None

Are you interested in the medical field? Would you know how to give rescue breathing, CPR, or control severe bleeding? Would you know the symptoms and dangers of heat exhaustion or hypothermia? Would you know what to do for a person who is having a seizure, a stroke, or a heart attack? This course teaches first aid skills a person needs to know to act as the first link in the emergency medical system. The focus of this course is to prepare the individual to respond correctly to everyday emergencies.

Students will learn First Aid, and CPR skills. Those who successfully complete the course may receive several American Red Cross certifications (Responding to Emergency and/or Community First Aid; and/or CPR/AED for the Professional Rescuer).

A field trip to a local ambulance & fire department may be included. Students will talk with professionals, tour the facilities, participate in hands-on activities as well as explore potential career opportunities.

Foundations of Health and Wellness+

Semester Course **½ Unit**
Grades 10-12

Prerequisite: None

This course focuses on personal responsibility for your health and how lifestyle factors and choices reflect well being. More specifically, topics include nutrition, physical activity, communication skills, drug abuse, managing stress, and disease. This dual credit class is the pre-requisite of many Health Science majors, including nursing.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Health Education

Semester Course **½ Unit**
Grades 10-12

Prerequisite: None

This course is a graduation requirement, introduces Physical, Mental and Social Health. Topics include Nutrition, Emotional Management, Communication, Safety, Drug Prevention and Sexual Health. Additionally, all students will receive Hands-Only CPR Training. Completing this course will expose students to the concept of Service Learning, through participation in various Community Projects.

Life and Death+

Semester Course **½ Unit**
Grades 11-12

Prerequisite: Health Education

This course is designed to help the individual learn to cope with life's experiences. Topics include: understanding self and others (minimizing stress, assertiveness skills, time management, relationships, and life goals). One of the main topics explored is death - something everyone must face throughout a lifetime. In this unit we will cover: attitudes about death, talking to children about death - the do's and don'ts; medical ethics; terminal illness - some guidelines for coping; suicide - the symptoms and do's and don'ts; funerals - what to say and do, and the grief process - what to expect in self and others.

Field trip to local funeral home and cemeteries may be included. The individual must be willing to become **actively involved** in class activities and projects.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Peer Leadership I

Semester Course ½ Unit
Grades 11-12

Prerequisite: Health Education

Peer Leadership is a program designed to help students build leadership skills for personal and professional growth. Students will learn how to take an idea, put it into a proposal, and implement it into reality. They will learn how to be Peer Helpers in assisting others with difficult situations. This activity-oriented course will train students in topics such as self-esteem, communication skills, and group dynamics. The course will also address specific adolescent concerns such as drug awareness, divorce, relationships, anger management and conflict resolution. Activities these students may become involved in include school enhancement projects, elementary school volunteer work, group presentations to elementary school classes, or other community enhancement projects.

Students will be required to complete 75 hours of services (i.e. 9th grade orientation, weekly individual placement and group service projects). Students are expected to be role models and follow an ethics contract. To be accepted in to the volunteer component, a teacher recommendation is needed.

Peer Leadership II

Semester Course ½ Unit
Grades 11-12

Prerequisite: Peer Leadership

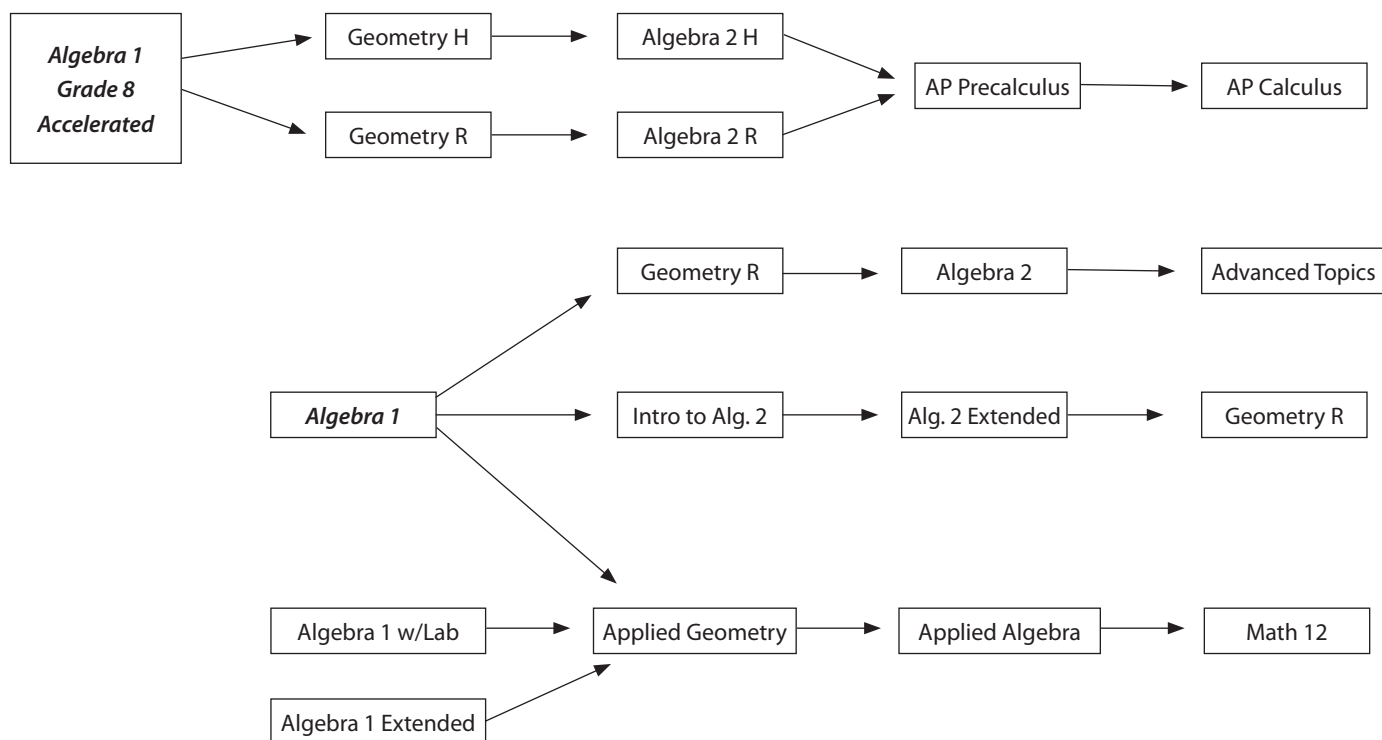
This course is designed to meet the needs of the student interested in pursuing a career in helping professions such as teaching, nursing, psychology, physical therapy, or other human service fields. The student will be required to complete 75 hours of service. Content will include lesson planning, professionalism, career research, conflict management, time management, as well as other topics and “on-the-job” training.

Students are expected to be responsible, mature, and committed and must be able to work independently. Students must follow an ethics contract and be positive role models.

Successful completion of Peer Leadership I & II make students eligible for the National Award for Service Learning.

Math

Mathematics Department Course Flowchart



Electives: Discovering Computer Science, Java, AP Computer Science, AP Statistics,

All courses in mathematics enable a student to pursue a background in STEM (Science, Technology, Engineering, & Mathematics).

In general, the higher the level of mathematics achieved, the more opportunities available within STEM majors and careers.

The current measure of "College & Career Ready" in mathematics references at least an 80% on the Algebra 1 Regents.

An Advanced Designation Diploma requires passing all 3 NYS Regents Exams in Math (Algebra 1, Algebra 2 and Geometry).

Additional Electives:

Discovering Computer Science, Java may be taken after completing Geometry or Algebra 2.

AP Statistics may be taken any time after completing Algebra 2.

Algebra 1 R

Full-Year Course

1 Unit

Prerequisite: None

This is the first in a sequence of three Regents level courses designed to meet the New York State Next Generation Learning Standards in Mathematics. Students will prepare for the Algebra 1 regents exam, which is required for graduation and will be taken in June of their freshman year. Topics in this course include: set and function notation, algebra, systems of linear equations and inequalities, Coordinate geometry, polynomial operations, factoring, quadratics, conditional probability, statistics, and regression. A graphing calculator is required for the exam and recommended for the course.

Algebra 1 R with Lab

Full-Year Course 1 Unit

Prerequisite: Department Approval

This course allows for extended time for students who experienced difficulty in Middle School math classes and need additional preparation and skill building before taking the Next Generation Algebra 1 Regents examination. Students will meet with their Algebra teacher a second time during the day for skill building, review and additional test preparation. Students will prepare for the Algebra 1 regents exam, which is required for graduation and will be taken in June of their freshman year. Topics in this course include set and function notation, algebra, systems of linear equations and inequalities, Coordinate geometry, polynomial operations, factoring, quadratics, conditional probability, statistics, and regression. A graphing calculator is required for the exam and recommended for the course.

Algebra 1 R Extended

Full-Year Course 1 Unit

Prerequisite: Intro to Algebra 1 R

This course will complete the preparation and coverage of material required for the January Next Generation Algebra 1 examination. Topics in this course include polynomial operations, factoring quadratics, algebra of real numbers, relations and functions, trigonometry, and imaginary numbers. Graphing calculators will be used to illustrate concepts and are available for use in the classroom.

Geometry H

Full-Year Course 1 Unit

Prerequisite: Algebra 1 (Grade 8) or Department Approval

This course is designed for the outstanding math student who is capable of learning topics at a much quicker pace. The units of study include transformational geometry, analytical and Euclidean geometry (including proof), coordinate geometry, quadrilaterals, solid geometry, right triangle trigonometry, and construction. This course culminates with the June Next Generation Geometry Regents examination, one of three required exams for the Advanced Regents Diploma. Graphing calculators and dynamic geometry software will be utilized in this class.

Geometry R

Full-Year Course 1 Unit

Prerequisite: Successful completion of Algebra 1 R

This is the second in a sequence of three Regents level courses designed to meet the New York State Next Generation Learning Standards in Mathematics. The units of study include transformational geometry, analytical and Euclidean geometry (including proof), coordinate geometry, quadrilaterals, solid geometry, right triangle trigonometry, and construction. This course culminates with the June Next Generation Geometry Regents examination, one of three required exams for the Advanced Regents Diploma. Graphing calculators and dynamic geometry software will be utilized in this class.

Applied Geometry

Full-Year Course 1 Unit

Prerequisite: Algebra 1 R with Department Approval

This is an applied mathematics class that uses ‘hands-on’ activities to teach geometry concepts. Topics that students will explore include perimeter, area, volume, similar figures, transformations, constructions, right triangle trigonometry and applications, quadrilaterals, polygons, coordinate geometry, triangle congruence and conic sections.

Algebra 2 R

Full-Year Course 1 Unit

Prerequisite: Successful completion of Geometry R

This is the third in a sequence of three Regents level courses designed to meet the New York State Next Generation Learning Standards in Mathematics. Students will prepare for the Algebra 2 Regents examination, which is required for a New York State Advanced Regents Diploma and will be taken in June. The units of study include algebra of polynomials, rational functions, the complex number system, trigonometric functions and identities, transcendental functions, and inferential statistics. Graphing calculators will be used to illustrate concepts and are strongly recommended due to the examination requirements.

Algebra 2 H

Full-Year Course 1 Unit

Prerequisite: Geometry H or Department Approval

This course is designed for the outstanding math student who is capable of learning topics at a much quicker pace. The units of study include algebra of polynomials, rational functions, the complex number system, trigonometric functions and identities, transcendental functions, and inferential statistics. Students will complete their mathematics requirement for a New York State Advanced Regents Diploma by taking the Next Generation Algebra 2 Regents examination in June. Graphing calculators will be used to illustrate concepts and are strongly recommended due to the examination requirements.

Intro to Algebra 2

Full-Year Course 1 Unit

Prerequisite: Algebra 1 R or Departmental Approval

This course allows for extended time for students who experienced difficulty in Algebra 1 or Geometry and need additional preparation before taking Algebra 2 Extended and the Next Generation Algebra 2 Regents examination. Topics in this course include algebra of real numbers, relations and functions, trigonometry, imaginary numbers, and statistics. A graphing calculator is used in class.

Algebra 2 R Extended

Full-Year Course 1 Unit

Prerequisite: Intro to Algebra 2

This course will complete the preparation and coverage of topics required for the Next Generation Algebra 2 Regents examination. Topics in this course include polynomials, exponential and logarithmic functions, conditional probability, and the fundamental theorem of algebra. A graphing calculator is used in class.

Applied Algebra

Full-Year Course 1 Unit

Prerequisite: Applied Geometry or Departmental Approval.

This course maintains mathematical skills and emphasizes problem solving applications of mathematics in the real world. Various STEM modules will be implemented and skills necessary for passing the Accuplacer will be reviewed. Topics include linear and quadratic equations, solving systems of equations, introduction to algebraic fractions (up to add/subtract with like denominators), exponents and radicals, graphing techniques, absolute value equations, and polynomials. A graphing calculator is used in class.

Math 12

Full-Year Course 1 Unit

Prerequisite: Applied Algebra

This course extends the mathematical skills and applications of mathematics in the real world. It is intended for seniors who anticipate having to take and pass a math placement exam for college admission. Topics include 1st degree inequalities, functions, linear equations, solving systems of equations and inequalities, polynomials, rational exponents and radical equations, complex numbers, exponential functions, and quadratic equations. A unit on financial literacy is also included. Problem solving and applications are emphasized throughout the course. A graphing calculator will be used to illustrate concepts.

Advanced Topics In Mathematics

Full-Year Course 1 Unit

Prerequisite: Algebra 2 R or Algebra 2 R Extended

This course extends those topics which were first encountered in the NYS Regents curriculum over the past 3 years. Advanced topics are included in the algebra of real and complex numbers, analytic geometry, polynomials, rational and algebraic functions, and transformations. In addition, new topics like systems of equations, matrices, and linear programming, along with various real-world applications are introduced. Graphing calculators will be used to illustrate concepts and are recommended.

AP Precalculus

Full-Year Course 1 Unit

Prerequisite: Successful completion of Algebra 2H or Algebra 2 R.

This course is designed for a highly competent math student who intends to pursue Calculus the following year. The units of study include polynomial functions; rational and explicit algebraic functions; trigonometry; transcendental functions and analytic geometry, proof by induction, rational and, matrices and simultaneous equations; sequences and series; limits; the derivative and applications of the derivative. Students successfully completing this course are eligible for AP Calculus. Graphing calculators will be used to illustrate concepts and are strongly recommended.

AP Calculus

Full-Year Course 1 Unit

Prerequisite: Precalculus R or H, AP Precalculus or Department Approval

Designed to prepare a student for the BC Advanced Placement examination given in May. Includes all the topics of Calculus AB plus: differential equations, sequences and series, and polar coordinates. Requires use of graphing calculator. Students taking the AP exam will automatically receive an AB subscore. The Calculus AB subscore shows how you did on the part of the exam devoted to Calculus AB topics, which is approximately 60% of the exam.

High School students can earn college credit for qualifying AP Exam scores. The college credit option DOES require a fee.

AP Statistics

Full-Year Course 1 Unit

Prerequisite: Algebra 2

A full-year course, offering the equivalent of an introductory level college statistics course. The purpose of the course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics studied will include recognizing and analyzing patterns in data, techniques of collecting data, randomness and probability distributions, and statistical inference. Students may elect to take the advanced placement examination offered in May. This course requires the use of a graphing calculator.

High School students can earn college credit for qualifying AP Exam scores. The college credit option DOES require a fee.

Math with Business Applications

Full-Year Course 1 Unit
Grades 11-12

Prerequisite: None

This full year course covers fundamental mathematical operations and their application to business problems. Basic concepts and processes of mathematics are applied to various business situations including statistical analysis, merchandising, taxation, personal finance, payroll, financial statements, inventory, investments and other pertinent uses of mathematics in the field of business. Upon completion, students should be able to apply mathematical concepts for business and personal use.

Computer Electives

Discovering Computer Science

Full-Year Course 1 Unit

Prerequisite: None

This is an introductory course for students with minimal prior experience in computer science. The course presents an overview of the history, principles, and transformative applications of computer science, as well as a comprehensive introduction to programming. Students will start by programming in a blocky language that will allow them to express themselves by creating interactive games, animations, and stories, while learning the fundamentals of computer programming. Students will continue to develop their programming and problem solving skills using the text-based language Python. Finally, students will learn how to design their own website using HTML, CSS, and JavaScript

JAVA

Full-Year Course 1 Unit

Prerequisite: Geometry R or Algebra 2 with Department Approval

This is an introductory course to computer programming that requires no prior use of any programming language. The student enrolled in this course will learn the following concepts: basic computer science concepts, the Java development environment, object oriented design, primitive data types, how to write basic Java applications, using arrays and array lists for data structures, sorting techniques, abstract data types, inheritance, super classes and subclasses. A group project will be required.

AP Computer Science

Full-Year Course 1 Unit

Prerequisite: Java

This course will include a review of all topics from Java and also include these additional topics: exception handling, streams and file input and output, dynamic data structures, recursion, and window interfaces using swing objects. Students may elect to take the advanced placement examination offered in May.

High School students can earn college credit for qualifying AP Exam scores. The college credit option DOES require a fee.

Music

Music has ties to every human endeavor and contributes to our daily well-being throughout our lives. It marks the special events and adds a special dimension to the quality of our lives that cannot be obtained from any other source.

The goal of the high school music program is to provide students with a broad foundation of musical knowledge, coupled with a high level of academic performance skills. The music course offerings are designed to fulfill the needs of all students with an interest in music. The music program in the high school builds sequentially on the music program in the middle school and provides the foundation for lifelong participation in and enjoyment of music. Instructional activities are directed toward achieving the National Standards for the Arts.

Every music course, including performance courses, provides experiences in creating, performing, listening to, and analyzing music, in addition to focusing on its specific subject matter. Also included are learning experiences designed to develop the ability to read music, use the notation and terminology of music, describe music, make informed evaluations concerning music, and understand music and music practices in relation to history and culture and to other disciplines in the high school curriculum.

Full-Year Course Offerings

- Advanced Treble Choir
- Band 9-10
- Band 11-12
- Band/Chorus 9-10
- Band/Chorus 11-12
- Concert Choir
- Mixed Chorus
- Music Theory

Half-Year Course Offerings

- Piano I
- Piano II
- Studio Production in Music I
- Studio Production in Music II

Students may use a 5-unit sequence in music to replace the 3 required units of foreign language for the Regents with Advanced Designation Diploma.

The 5-unit sequence in music can only be fulfilled with Music Theory. The typical five unit sequence is four credits of a performing group (Band/Chorus) and one credit of Music Theory.

Advanced Treble Choir

Full-Year Course 1 Unit
Grades 10-12

Prerequisite: Successful completion of one unit of Mixed Chorus (or similar entry-level HS choir), Small Group Voice Lessons at School, and Director Recommendation.

Singing in Advanced Treble Choir requires a high level of proficiency singing in the treble range (SSAA) as well as advanced music reading skills and sightsinging skills. Repertoire chosen includes many pieces that are acapella and songs in languages other than English. Pacing is fast and outside practice time will be necessary. Curricular choirs present four evening choral concerts, one per academic quarter. Students have the option to sign up for small group voice lessons that take place during a free period. Participation in chorus and voice lessons allows students to participate in solo festivals and audition for select county, regional, and state honors ensembles.

Band

Full-Year Course 1 Unit
Grades 9-12

Prerequisite: NYSSMA Level 3 or higher on a band Instrument or Teacher Recommendation after Audition

Students rehearse in an ensemble setting daily and are required to attend a weekly lesson. Students participate in evening concerts, school assembly programs, and perform for the students in our elementary schools. All band members will participate as a marching band at home football games, and other field band performances, and pep rallies. The Marching Band also participates in the Memorial Day parade as well as several other parades. Students may participate in solo festivals, which are prerequisites for selection to All-County, Area All-State and Conference All-State Bands. Students are invited to participate in school co-curricular activities such as Jazz Band, and may be invited to play in the Annual Musical. The High School Band program is divided into two ensembles. The Concert Band (grades 9-10) rehearses separately from the Wind Symphony Grades 11-12. The two ensembles perform together as one group for marching season. They perform separately for Concert season.

In preparation for Marching Band, there is a "Band Camp." All students are required to attend Band Camp, which is run in the high school band room and adjoining practice fields during the week before Labor Day. Personal schedules for work and vacation should be adjusted so that all band students can attend Band Camp. The Band and Chorus directors arrange rehearsal time so those instrumentalists who wish to participate in both activities, are able to participate in both the Band and Chorus.

Band/Chorus 9-10 or 11-12

Full-Year Course 1 Unit
Grades 9-10,11-12

Prerequisite: Middle school choir and/or band recommended for 9-10

The Band/Chorus 9-10 or 11-12 course offering allows students that both play an instrument and sing, to participate in band and choir during the same academic period. These students attend band and choir rehearsals on alternating days of the week. They perform with both ensembles at all scheduled concerts and performances. Musicians in band/chorus are dedicated to singing and playing their instrument and this course offering allows them to do both.

Concert Choir

Full-Year Course 1 Unit
Grades 10-12

Prerequisite: Successful completion of one unit of Mixed Chorus (or similar entry-level HS choir, if transferring from out-of-district)

In Concert Choir the students continue building upon skills acquired in Mixed Chorus. The literature performed is selected from a wide variety of genres, periods, and styles. In addition to becoming stronger musicians, the singers learn how to work as a team, connect with others, become more self-confident, and express emotion through music. Curricular choirs present four evening choral concerts, one per academic quarter. Students have the option to sign up for small group voice lessons that take place during a free period. Participation in chorus and voice lessons allows students to participate in solo festivals and audition for select county, regional, and state honors ensembles.

Mixed Chorus

Full-Year Course 1 Unit
Grades 9 and any student taking choir for the first time at the high school level.

Prerequisite: Middle school choir recommended, not required.

Mixed chorus is the entry level choir at Gates Chili. We develop vocal confidence, musicianship, and intermediate music literacy skills with the goal of singing together as a large ensemble. Students have the option to sign up for small group voice lessons that take place during a free period once a week. Curricular choirs present four evening choral concerts, one per academic quarter. Participation in chorus and voice lessons allows students to participate in solo festivals and audition for select county, regional, and state honors ensembles.

Music Theory

Music Theory is taught in one sequential course. Prerequisite for registration in Music Theory is successful completion of at least one unit of Band, Chorus, Music Keyboarding, Music Technology, or teacher recommendation. It is assumed that students registering for Music Theory will have basic music reading skills and familiarity with a variety of musical styles before taking this course. Basic keyboard experience, while helpful, is not a prerequisite for Music Theory.

The study of music theory includes ear training as well as written and keyboard exercises. The ear training portion of the class includes harmonic and melodic dictation, sight-singing, rhythmic dictation and other listening exercises. The basics of music are covered, including the principles of notation, staff, clefs, notes, rests, whole and half steps, and music terminology. Rhythm and meter are studied and includes tempo markings, time signatures, dictation, triplets, syncopation, and asymmetric meters. Theory class also includes the study of major and minor scales, keys, modes, intervals, chord progressions, triads with and without inversions, seventh chords with and without inversions, transposition, harmonization, non-harmonic tones, melody, figured bass, 4-part writing, cadences, instrumentation, chord function, and music history as it relates to theory.

Several music compositions are assigned to apply theory concepts, including a rhythmic based composition, a lyric based composition, and an orchestration composition. Computer software is utilized not only for notation of compositions and realization of compositions, but also for drill and practice.

Music Theory

(Offered every other year opposite Studio Production in Music I & II – even years starting with 2026)

Full-Year Course 1 Unit
Grades 10-12

Prerequisite: One year of Band or Chorus or Teacher Recommendation

Piano Class

Students will learn to read music, play with both hands, and play and harmonize simple melodies. This class is for anyone who has ever wanted to learn to play piano. Piano class is taught in two sequential courses. There are no prerequisites for registration in Piano Class I. Successful completion of Piano Class I or teacher approval is a prerequisite for Piano Class II. Students registering for Piano Class I and II bring a wide variety of experience. Though designed for beginner students, modifications may be made for students that have had some piano experience or lessons to meet their needs as well. Upon successful completion of Piano I and II, students will have the necessary skills to pursue music as an avocation. Those students planning a career in music will have acquired skills that will be helpful to them regardless of their area of musical study.

Piano I

Semester Course **½ Unit**
Grades 9-12

Prerequisite: None

Piano II

Semester Course **½ Unit**
Grades 9-12

Prerequisite: Piano I or Teacher Recommendation
after Audition

Studio Production in Music

Studio Production in Music is taught in two sequential courses. Students will be introduced to the study of Studio Production and the fundamentals of music through this project oriented class. Areas of instruction include an overview of historical events that have shaped Studio Production today. Students will also create their own music through the use of music software, hardware, and other music based technology. They will acquire basic music literacy skills and be able to apply them to compositions. Students will explore possible Music Production careers, and be introduced to the key concepts and terminology of Studio Production.

Studio Production in Music I

*(Offered every other year opposite Music Theory – odd years
starting with 2025)*

Semester Course **½ Unit**
Grades 9-12

Prerequisite: None

Studio Production in Music II

*(Offered every other year opposite Music Theory – odd years
starting with 2025)*

Semester Course **½ Unit**
Grades 9-12

Prerequisite: Studio Production in Music I

Physical Education

Physical Education is a mandated course for all students in public school in the State of New York and is a requirement for graduation from Gates Chili High School. Students receive ½ credit per year for the successful completion of Physical Education, for a total of two credits upon graduation.

Physical Education 9-12

Physical Education at Gates Chili High School is based upon the following goals: acquiring the knowledge to develop and maintain an optimal level of personal fitness; developing a higher level of competence in skills and knowledge of movement and sport; developing and maintaining a positive attitude toward fitness, movement, and sport. The Physical Education curriculum is based on a wide variety of fitness-based activities and traditional sports. Units last from 2-3 weeks. Students usually experience 4 activities per quarter. All students will participate in the SPARTAN FITNESS test twice a year. Students will have the opportunity to set goals from the fall to spring semester.

All students will participate in a week long modern dance unit that unifies the school as they all learn the same choreography.

Aquatics Program

All 9th -12th grade students will participate in an instructional swimming program. Red Cross level V skills will be taught during the warm up segment of the class. The class will also participate in water activities and water sports. This program will consist of: water polo, water basketball, water football, kayaking, snorkeling and water aerobics.

Selective Activities Available:

Lifetime Activities:

Tennis, Biking, Personal Living Skills, Fitness/Wellness Training, Recreational Games Unit, Aerobics, Indoor Racquet Games

Team Sports:

Basketball, Flag Football, Soccer, Lacrosse, Volleyball, Floor Hockey, Softball

Introduction to Sports Medicine

(Offered even years starting 2026)

Semester Course ½ Unit
Grades 10-12

This course is designed to give students an introduction to Sports Medicine. The purpose is to teach students interested in health related careers fundamentals skills and knowledge.

Course Objectives

- Teach names, structures, and functions of skin, muscles, and bones
- Teach injury prevention and recognition along with possible treatments and rehabilitation
- Teach basic concepts in nutrition and weight control
- Teach preventative taping skills
- Teach career education

Internship Possibilities

- Local Sports Teams (Rhinos/Amerks, etc.)
- Local Physical Therapists
- Local Occupational Therapists
- Local Physicians and/or Physician Assistant
- Local Sports Medicine Physician

This course has the opportunity to be interdisciplinary with the Technology Department, Health Department, Science Department, and Athletics.

Science

Gates Chili High School science classes are designed to prepare students to be college and career ready by exposing them to the necessary knowledge and essential skills as they grow into 21st century learners. Our instruction is based on the Common Core and New York State Curriculum Standards. Our intention is to challenge all students with high quality instruction in science education. Science classes engage students through hands-on laboratory experiments, problem-solving, critical thinking, oral and written communication skills, collaboration, creativity, and using innovative technology.

In order to be college and career ready, the Gates-Chili science department **STRONGLY ENCOURAGES** all students to enroll in four years of science, consisting of the four CORE science classes (Physics, Earth and Space Sciences, Chemistry, and Life Science: Biology). These courses each culminate with the NYS Regents examination and require successful completion of 1200 minutes of documented laboratory work.

Earth and Space Sciences R

Full-Year Course 1 Unit
Grades 9-12

Prerequisites: Successful completion of 8th grade Science and currently taking or completed Algebra 1 R or Intro to Algebra 1 R, with teacher's recommendation.

The course includes state mandated laboratory-based units of study. Some of the units include information on Earth's structure, forces and energy, effects of Earth motions and the Earth's place in space. The course also includes the study of the Earth's dynamics, natural disasters, weather, rock formation, erosion and development of landscapes, as well as how changes impact humans and the environment. This course culminates in a Regents examination.

Living Science: Biology R

Full-Year Course 1 Unit
Grades 9-12

This course meets and exceeds the requirements of the Biology curriculum and will culminate in the Regents examination. Covered topics include:

1. Similarities/Differences among living things
2. Genetics
3. Chemistry of living organisms
4. Evolution
5. Maintenance in living things
6. Ecology
7. Reproduction and development

Living Science: Biology H

Full-Year Course 1 Unit
Grades 9-12

Prerequisite: Earth and Space Sciences with teacher's recommendation

This course will be an expanded and enriched Honors Biology course, with additional options for the highly motivated student. There will be a cumulative final project in addition to the Regents examination.

AP Biology+

Full-Year Course 1 Unit
Grades 10-12

Prerequisite: Successful completion of Biology R or Honors Biology and Chemistry R or Chemistry H.

The purpose of Advanced Placement Biology is to prepare the above average student for the typical college level work in Biology. Major emphasis of the course will be in the following areas:

1. Laboratory Experience
2. Molecular and Cellular Biology
3. Anatomy and Physiology
4. Classical and Modern Genetics
5. Evolutionary and Ecological Biology

Summer reading is required prior to the beginning of the course.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

High School students can earn college credit for qualifying AP Exam scores. The college credit option DOES require a fee.

Conceptual Chemistry

Full-Year Course 1 Unit
Grades 11-12

Prerequisite: Successful completion of Algebra 1 R or Algebra 1 Extended or its equivalent, and Living Environment or Physical Setting/Earth Science R; teacher recommendation.

This course entails a general overview of the principles of chemistry. Emphasis is placed on the conceptual aspects of chemistry, including a laboratory component. The course is designed for students who meet the minimum mathematics requirement. Students must take a local final examination. Students may also have the option to challenge the Regents examination with teacher approval. Successful completion of 1200 minutes of lab time is required to take the Regents.

Chemistry R

Full-Year Course 1 Unit
Grades 10-12

Prerequisite: Successful completion of Algebra 1 R and concurrent enrollment in Algebra 2 R; Successful completion of Living Environment or Physical Setting Earth Science; teacher recommendation.

This course explores the New York State chemistry curriculum. Emphasis is placed on conceptual and mathematical aspects of chemistry. This course is designed for students who may wish to consider upper level science courses in high school or college. This course culminates in a Regents examination.

Chemistry H

Full-Year Course 1 Unit
Grades 10-12

Prerequisite: Enrolled in Algebra 2 R, Successful completion of Living Environment R or Physical Setting/Earth Science with teacher's recommendation.

This course will be an expanded and enriched Honors Chemistry course, is fast paced and will provide additional options for the highly motivated student. This course culminates in a Regents examination.

AP Chemistry+

(Offered every other year opposite AP Environmental Science+ – even years starting with 2026)

Full-Year Course 1 Unit
Grades 11-12

Prerequisite: Successful completion of Algebra 2 with Science teacher recommendation. This course is equivalent to two (2) semesters of college level chemistry.

AP Chemistry+ is a course based on the major concepts that form contemporary chemistry in conjunction with an emphasis on the basic understandings of elementary chemistry. This course is equivalent to a full year sequence in inorganic chemistry with typical college laboratory experiences and requirements. AP Chemistry+ can be taken after Chem R or Chem H. A student may also elect to take this course and sit for the PS Chemistry examination.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

High School students can earn college credit for qualifying AP Exam scores. The college credit option DOES require a fee.

Forensic Science+

Full-Year Course 1 Unit
Grades 11-12

Prerequisite: Successful completion of two Regents science courses and Regents examinations. It is strongly encouraged that students enroll in a core physical science course or an AP level science course as well.

This is a lab based course that offers the student the opportunity to investigate many aspects of Forensic Science. Fingerprinting, DNA and blood analysis, fiber, hair, glass and soil examinations, ballistics, tool markings and impression evidence will be explored. Selected topics in Forensic Science such as Forensic Anthropology, Forensic Pathology, Forensic Odontology and Forensic Entomology will be investigated. This class will intrigue the student as well as encourage the use of critical thinking and problem solving skills.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

AP Environmental Science+

(Offered every other year opposite AP Chemistry+ – odd years starting with 2025)

Full-Year Course 1 Unit
Grades 10-12

Prerequisite: Successful completion of Living Environment or teacher recommendation.

The objective of this course is to offer the average to above average student the opportunity for an advanced course, which combines the environmental aspects of Living Environment, Earth Science and Chemistry. This course would be of interest to not only those students interested in science careers, but would be of benefit to almost any college or career choice from engineering, criminal justice, business, marketing and advertising. Major emphasis of the course will be in the following areas:

- Interdependence of Earth's Systems
- Human Population Dynamics
- Renewable and Nonrenewable Resources
- Environmental Quality
- Global Changes and their Consequences
- Environment and Society

Field trips and lab work will be an integral part of this course.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

High School students can earn college credit for qualifying AP Exam scores. The college credit option DOES require a fee.

Conceptual Physics

Full-Year Course **1 Unit**
Grades 10-12

Prerequisite: Successful completion of Algebra, or Algebra 1 Extended, a Physical Setting science course and one Regents science examination with teacher's recommendation.

This is a full-year elective course designed for the student who needs a general overview of physics. Emphasis is placed on the basics of physical principles and their applications to every day situations rather than the more technical aspects of this field. This course will culminate in a local examination or project at the teacher's discretion.

Physics R

Full-Year Course **1 Unit**
Grades 10-12

Prerequisites: Successful completion of Algebra 2 R or Algebra 2 Extended.

Physics R is the study of five major topics: Mechanics, Energy, Wave Phenomena, Electricity-Magnetism, and Modern Physics. In all of the topics, both problem solving and the processing of information are stressed. Emphasis is, therefore, placed heavily on reasoning and deduction rather than rote memorization. Added bonuses are the ability to come to know, use and develop skills in the use of various instruments and devices. Emphasis is also placed on the ability to derive physics relationships and communicate them in writing. This course culminates in a Regents examination.

AP Physics I+

Full-Year Course **1 Unit**
Grades 11-12

Corequisite or Prerequisite: Algebra 2 R

This course is offered to the above average science student who wants a comprehensive study of non-calculus based Physics at the college level. The course is designed for:

- Juniors or Seniors intending to major in Physics, Engineering, Chemistry, Pharmacology, Medicine, Math, or Computer Science.
- Students continuing an advanced placement program.

The course provides the opportunity for college credit upon successful completion of the AP Physics I examination. Students may elect to challenge the NYS Regents Physics exam with the understanding that this course does not cover all standards assessed on the Regents exam.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

High School students can earn college credit for qualifying AP Exam scores. The college credit option DOES require a fee.

AP Physics C

Full-Year Course **1 Unit**
Grade 12

Prerequisites: AP Physics I with Physics teacher recommendation.

The intention of this course is to prepare students for the demanding calculus-based College Physics for Engineering. It deals with calculus applications in classical mechanics. Topics such as Vectorial Analysis, Particle Dynamics, Work and Energy principles, etc., are covered in depth.

High School students can earn college credit for qualifying AP Exam scores. The college credit option DOES require a fee.

Intro to Optics+

Full-Year Course **1 Unit**
Grades 10-12

Prerequisites: Successful completion of Algebra 1 R and two science courses that culminated in Regents examination. It is strongly encouraged that students enroll in a core physical science course or an AP level science course as well.

This is an introductory course in the field of optics. The optics field has great opportunities that are highly paid. Students interested in photography will also find the course beneficial. Students will learn about mirrors, prisms, thin and thick lenses, diffusers, stops and various types of light sources. Reflection, refraction, dispersion, image formation and aberrations are studied with the emphasis on the ray concept of light. This course is required for students in MCC's Optical Systems Technology program (both the AAS and certificate programs).

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Unified Science

Full-Year Course 1 Unit
Grades 10-12

Prerequisites: Successful completion of two Regents science courses that culminate in a Regents examination.

This project-based course is an overview of the four core sciences including Earth Science, Biology, Chemistry and Physics. Each quarter focuses on a different core science, with a focus on the applications of scientific concepts in the students' lives.

Anatomy and Physiology I

Semester Course ½ Unit
Grades 10-12

Prerequisites: Successful completion of Living Environment or equivalent. It is strongly encouraged that students enroll in a core physical science course or an AP level science course as well.

Anatomy and Physiology is a laboratory-based study of the human body. Basic concepts of human anatomy and physiology, including the structure of cells, tissues, and organs will be studied.

This course would be advantageous for potential science majors in college. This course is designed for biology and health career majors. Students will demonstrate an in-depth knowledge of human anatomy and physiology and its real world applications at the conclusion of the course.

Anatomy and Physiology II

Semester Course ½ Unit

Prerequisites: Successful completion of Living Environment or equivalent. It is strongly encouraged that students enroll in a core physical science course or an AP level science course as well.

Anatomy and Physiology II is a laboratory-based course that continues the tour of the form and function of the human body introduced in Anatomy and Physiology I. The immune system, central nervous system, endocrine system, respiratory system and digestive system will be covered. This course would be advantageous for potential science majors in college. This course is designed for biology and health career majors. Students will demonstrate an in-depth knowledge of human anatomy and physiology and its real world applications at the conclusion of the course.

Social Studies

Students are required to take Global History and Geography, United States History and Government, Dynamics of Citizenship and Economics.

Grade 9 Global History and Geography

The general subject matter is the same for all students; the materials used, the depth of content studied and the methodology varies. In determining a suitable course, the student and parent(s) should realistically assess the student's reading, writing and verbal skills, dedication to work, work habits and interest in the subject. Teacher recommendations for course selection will consider academic achievement, ability in test taking skills, performance on achievement tests and effort and interest. All students in each course will have to pass the Global History Regents examination at the end of Global History 10 to meet graduation requirements.

All Global History and Geography courses include such topics as an introduction to global history, the ancient world, civilizations and religions (4000 BC-500 AD), expanding zones of exchange and encounter (500-1200 AD), global interactions (1200-1650), the First Global Age (1450-1770), and an Introduction to the Age of Revolutions. There will be considerable geographical, historical, and factual content. In preparation for the Global History Regents examination in grade 10, students at all levels will do extensive writing.

Global History and Geography 9 R

Full-Year Course 1 Unit

Students will continue to develop test-taking skills including Regents essay writing, as well as studying concepts that appear in the curriculum. Research projects, outside reading and homework are assigned to reinforce the extensive content of the curriculum. The course will emphasize the preparation for the Regents examination in 10th grade.

Global History and Geography 9 H

Full-Year Course 1 Unit

Prerequisite: Teacher recommendation.

This course is designed to meet the requirements of the vertical AP Program. This course is for highly motivated students who need reinforcement in the skills necessary to successfully complete an Advanced Placement course of study in social studies. Students are expected to complete extensive outside reading and research. The course will give students the tools and knowledge to succeed in future Advanced Placement courses. A recommended summer reading list is given to students. Students who continue this course in the 10th grade will take the Regents Examination in June.

Grade 10 Global History and Geography

Global History and Geography 10 includes such topics as world geography, the age of revolutions, 1750-1914; a half century of crisis and achievement, 1900-1945; the twentieth century since 1945, and a concluding unit on making global connections and interactions.

The general subject matter is the same for all students; the materials used, the depth of content studied and the methodology varies. In determining placement the student and parent(s) should realistically assess the student's reading, writing and verbal skills, dedication to work, work habits and interest in the subject. Teacher recommendations for placement will consider academic achievement, ability in test taking skills, performance on achievement tests and effort and interest.

Global History and Geography 10 R

Full-Year Course 1 Unit

Prerequisite: Global History and Geography 9 R

Students will continue to develop test-taking skills including Regents essay writing, as well as studying concepts that appear in the curriculum. Research projects, outside reading and homework are assigned to reinforce the extensive content of the curriculum. The course will emphasize the preparation for the Regents examination in 10th grade.

AP World History+

Full-Year Course 1 Unit
Grade 10 or Grade 12 elective

Prerequisite: Global History and Geography 9 H or teacher recommendation

Students taking this course should possess above average skills in reading and writing and should expect to be working on college-level reading material. The AP World History course highlights the following six themes: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technological innovations. This course is designed to increase student knowledge of the impact of historical events on the modern world and stimulate intellectual growth. In addition to the credit (3 credits) provided by MCC if they choose to register, Sophomores could also prepare to take the AP examination in May. The course is recommended for college-bound students and students can earn college credit for qualifying AP Exam scores and/or credit through MCC. All students will take the Global History and Geography Regents Exam in June to meet New York State diploma requirements.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee. Students who receive free or reduced lunch may choose to apply for the Inspiring Every Day Scholarship.

High School students can earn college credit for qualifying AP Exam scores. The college credit option DOES require a fee.

Grade 11 United States History and Government

The emphasis in this course is on the United States as an industrial nation, the Constitution, legal issues, and international involvement by the United States.

The general subject matter is the same for all students; the materials used, the depth of content studied and the methodology varies. In determining placement, the student and parent(s) should realistically assess the students reading, writing and verbal skills, their dedication to work, work habits and interest in the subject. Teacher recommendations for phase placement will consider academic achievement, ability in test taking skills, performance on ability tests and effort and interest. Students are required to have successfully completed Global History 10 R.

U.S. History and Government 11 R

Full-Year Course 1 Unit

Prerequisite: Global History and Geography 10 R

This course is designed to prepare students to meet a graduation requirement of the Regents examination. Students will find emphasis placed on test taking skills including memorization, analysis, organization and essay writing.

AP United States History+

Full-Year Course 1 Unit

Prerequisite: AP World History, Global History and Geography 10 and/or teacher recommendation

This course is a survey of the history of the United States. It includes:

- 1.) Pre-Columbian Indian civilizations to the Civil War (111): Fall Semester
- 2.) Reconstruction to present (112): Spring semester
- 3.) US History and Government Regents exam in June (NYS graduation requirement)

Requirements for the course include the ability to read with a questioning mind and to write essay answers which are essential to performing well in this course. Students are responsible for knowing the material presented, both in lectures and in the textbook. To accomplish this, students should be active learners in the sense that they would seek to accomplish more than memorization and passive absorption of readings and lecture materials. Students are responsible for fulfilling the required summer assignments as well as weekly assignments during the two semesters. In addition to the credit (6 credits possible/3 per semester) provided by MCC if they choose to register, Juniors could also prepare to take the AP examination in May. The course is recommended for college-bound students and students can earn college credit for qualifying AP Exam scores and/or credit through MCC.

The college credit AND AP Exam options DO require a fee. For MCC credit, all students have the opportunity to apply for a scholarship via the online registration portal and students who receive free or reduced lunch may choose to apply for the Inspiring Every Day Scholarship.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

High School students can earn college credit for qualifying AP Exam scores. The college credit option DOES require a fee.

Grade 12 Civics and Economics

AP Government and Politics

Full-Year Course 1 Unit

Prerequisite: U.S. History and Government R or AP American History and the recommendation of the 11th grade teacher.

This course is designed for college-bound seniors who have a particular interest and/or ability in the field of American Government and Political Science. The course will include a study of such topics as: the constitutional foundations of American government, the citizen base of politics, political parties and interest groups, the institutions of the three branches of national government, the policy making process, and civil rights and civil liberties. Extensive reading and writing at a college level will be expected. Students will be preparing to take the Advanced Placement exam(s) in May.

High School students can earn college credit for qualifying AP Exam scores. The college credit option DOES require a fee.

This course may be substituted for the Dynamics of Citizenship course required for graduation.

Dynamics of Citizenship

Semester Course ½ Unit

Prerequisite: Global History and Geography, U.S. History and Government

This course will engage students in how to balance the rights and responsibilities of individual members with the needs of society as a whole. Topics in American government are studied with an emphasis on local needs and issues. Students investigate course content through instruction, guest speakers, research, readings, and class discussions. Content includes the study of current public policy issues in the communities of Gates and Chili and New York. Students will complete a Civics Capstone Project to demonstrate their readiness to make a positive difference in the public life of their communities through the applied combination of civic knowledge, skills and actions, mindset, and experiences.

Economics+

Semester Course ½ Unit

Prerequisite: Global History and Geography, U.S. History and Government

This course will include the basic economic concepts and understandings necessary for economic decision-making in today's world. Students will look at economics as it applies to both the United States and the world economic situation.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Junior Achievement Economics+

Semester Course ½ Unit

Prerequisite: U.S. History and Government, Global History and Geography and teacher recommendation

This course is an enriched alternative to Economics that includes not only the basis of micro and macroeconomics but encompasses an enriched curriculum with consultants from business and finance in Rochester. Students in this course will spend time in small groups "companies" learning about management roles and decisions. Additional time will be spent with JA consulting volunteers addressing individual financial planning, budgeting, and investing. Students will engage in business and stock market simulations through Junior Achievement of Rochester. Through this course, Junior Achievement also offers other student opportunities in entrepreneurship and leadership.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Social Studies Electives

African-American History

Semester Course ½ Unit
Grades 10-12

This course will examine African American history and culture throughout the 17th century to the present day. Topics that will be explored within this class include; the African slave trade, the Abolitionist Movement, the fight for rights in both America's political and economic systems, modern day issues, as well as cultural contributions to the United States of America. Students will also delve into the depiction of blacks in popular culture; such as jazz, hip hop and snitching. Opportunities will be provided for students to discuss famous and influential African Americans and their contributions throughout American history.

Social Studies in the News and Media

Semester Course ½ Unit
Grades 10-12

This course will explore areas of controversy and/or change within our society today. The objective of the course will be to explore various aspects of a given topic currently in the news. New websites will be the primary source of information. Students will research and present issues on a local, state and national level. Newsworthy events in the fields of art, politics, science, sports, world events, movies, social media and TV will be included. In addition, students will be expected to develop skills of analysis and critical thinking to understand the role and power of the media in today's world.

Introduction to Criminal Justice

Semester Course ½ Unit
Grades 10-12

Prerequisite: Global History and Geography 9 R

This course focuses on the relationship between American citizens and the three components which make up the criminal justice system: law enforcement, the courts, and the prison system. Each component will be examined from its historical development through its present day status. What is criminal behavior? How bad is crime in the United States? Do criminals have enough rights? Do they have too many rights? What is cruel and unusual punishment? Is the death penalty a deterrent to crime? Should prisons punish or rehabilitate? These issues, as well as many others, will be examined through activities such as readings, discussions, research, and role playing.

Psychology

Semester Course ½ Unit
Grades 10-12

Prerequisite: Global History and Geography

What makes people “tick”? Why do people act and think as they do? Psychology attempts to explore and answer these questions and others pertaining to human behavior and mental processing. This is a survey course that explores the fascinating and interesting field of the human mind. Topics will include: neuropsychology, psychological development, states of consciousness, personality, and psychological disorders. Students will complete a variety of assignments in which they will explore and examine human thought and behavior.

AP Psychology

Full-Year Course 1 Unit
Grades 10-12

Prerequisite: Teacher recommendation

Note: Psychology is NOT a prerequisite

Psychology is the social science that seeks to understand human and animal behavior and mental processes through a variety of perspectives and to apply that understanding for the benefit of humanity. Psychological research has yielded important clues and valuable theories as to why we think, feel and behave as we do. The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior of human beings and animals. It is open to highly motivated 10th through 12th grade students who are willing to meet the challenges and demands of a rigorous curriculum. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major fields within psychology. This course is recommended for college bound students who have the recommendation of their previous year’s Social Studies teacher.

High School students can earn college credit for qualifying AP Exam scores. The college credit option DOES require a fee.

Sociology

Semester Course ½ Unit
Grades 10-12

Prerequisite: Global History and Geography 9 R

Society has problems. They are your problems. It is your responsibility as a human being to study and understand them so they can either be solved or lessened. It is your world -- make it a happier one. In an examination of Sociology, we can get some ideas of the roles of religion, school, industry, government, and family. Opportunities are offered to study these ideas and also to do individual investigations.

World War, Holocaust and Rebuilding

Semester Course ½ Unit
Grades 10-12

Prerequisite: Global History and Geography 9 R

This course will cover European involvement in World Wars I and II, the Holocaust, and the aftermath of World War II, including present day Europe and Germany. The course purpose is to analyze the historic roots of the World Wars, the Weimar Republic, the Nazi period of Germany, and the Holocaust. Students will research the results of World War II on Europe and the impact on Holocaust survivors.

Special Education

Special Education is determined through the CSE process with a commitment to meeting students' needs in the least restrictive environment.

Special Education services are delivered along a continuum. Services included in this continuum include:

- Consultant Teacher Services
- 15:1 program
- 8:1:1 program
- 12:1:1 program (for students who are alternately assessed)
- Related Services

Many courses within the self-contained settings parallel the general education curriculum. In some cases, additional courses are provided in order to address student needs while also meeting graduation requirements. The following courses are only accessible through CSE recommendation.

English 12

Full-Year Course 1 Unit

This course is designed to develop skills in reading, writing, and communication for strengthened post-secondary readiness. With a continued focus on the writing process, students are expected to display all types of writing through authentic applications. Students will develop reading comprehension skills necessary for success in post-secondary settings by being exposed to a variety of texts.

Math for Life

Full-Year Course 1 Unit

This course is designed for students who require additional reinforcement on math concepts applicable to post-secondary settings. Topics include earnings, taxes, money management, consumer goods and services, transportation, housing, budgeting, and job skills.

12:1:1 English

Full-Year Course 1 Unit

This course is for students who participate in the NYS Alternate Assessment in English. Students will work on individual IEP goals while participating in a curriculum which includes a variety of fiction and nonfiction texts, as well as authentic tasks such as filling out forms and reading labels.

12:1:1 Math

Full-Year Course 1 Unit

This course is for students who participate in the NYS Alternate Assessment in math. Students will work on individual IEP goals while participating in a curriculum which includes (but not limited to) money management, basic operations, measurement, time, and authentic real world math problems.

12:1:1 Science

Full-Year Course 1 Unit

(Science & Social Studies offered in alternate years in the 12:1:1 program.)

This course is for students who participate in the NYS Alternate Assessment in science. Students will work on individual IEP goals while participating in a curriculum which includes exploration of how science impacts daily life. Additional topics include (but are not limited to) health, body systems, and weather.

12:1:1 Social Studies

Full-Year Course 1 Unit

(Science & Social Studies offered in alternate years in the 12:1:1 program.)

This course is for students who participate in the NYS Alternate Assessment. Students will work on individual IEP goals while participating in a curriculum which includes a study of world cultures and traditions, maps, community resources and navigation, as well as American and world history and current events.

Technology

All Technology Education courses may be chosen by any student as separate electives or a five-unit sequence requirement of graduation. Courses in a sequence may be taken in any order and are open to all grades.

Technology Education is an exploratory program of instruction in the resources, systems, and impacts of technology. Students enrolled in Technology Education courses study the major technological systems of the world and our society. Technology Education courses have been designed to meet the needs of all academic levels and are taught through laboratory-based, "hands-on" learning activities.

Students who choose to be Technology Majors may waive the world language graduation requirement with a 5 unit sequence of Technology for the Regents with Advanced Designation Diploma.

Half-Year - ½ Unit Courses:

- Computer Aided Design & Drawing+ (CADD)
- Construction Systems
- Creativity & Innovation (Woodworking)*
- Digital Electronics+
- Electricity/Electronics+
- Manufacturing Systems*
- Transportation Systems

*Wood is the primary material.

Full-Year - 1 Unit Courses:

- Architectural Design & Drawing
- Design & Drawing for Production+**
- Principles of Engineering+
- World of Technology

**Note: All students may take this course as an alternative for the Art/Music requirement.

Dual-Enrollment College Course Option

Receive high school plus college credit for taking the following courses: This option requires a fee paid to the college at a reduced tuition cost.

- Computer Aided Design & Drawing+ (CADD)
- Digital Electronics+
- Drawing for Design and Production+ (DDP)
- Electricity/Electronics+
- Photography I/Technical+
- Principles of Engineering+

Architectural Drawing & Design

Full-Year Course 1 Unit
Grades 10-12

Prerequisite: None

Students will take on the role of a developer to layout a small community. As a developer they will design a variety of Commercial Buildings & Residential Housing that are typically found within any community. Throughout the course students will explore: influences of key architects on design, architectural styles, zoning, elements of good design, construction techniques, typography and surveying skills. Students will show their work through a variety of sketches, hand drawings, CAD drawings and scale models as appropriate.

Computer Aided Design & Drawing+ (CADD)

Semester Course ½ Unit
Grades 10-12

Prerequisite: None

This is a beginner course in engineering drawing using design software. The key part of this course involves creating and manipulating 3-dimensional solids to solve technical problems and produce quality drawings. A variety of drawing practices will be covered such as: wire-frame modeling, engineering analysis, and rendering.

Dual-enrollment classes are subject to change yearly based on college approval. Students may elect to take this course for college credit. The college credit option DOES require a fee.

Construction Systems

Semester Course ½ Unit
Grades 9-12

Prerequisite: None

In this course students will gain knowledge in the Construction field. This course will provide students with the proper knowledge to maintain their own houses as well as provide students with the construction background to pursue a career in one of the construction trades. Units to be covered are Concrete, Framing, Drywall, Plumbing, and Finish Carpentry.

Creativity and Innovation

Semester Course ½ Unit
Grades 10-12

Prerequisite: None

The student will design and build a project of their choice. Typical projects have included items of furniture, speaker enclosures and storage units. Students will be taught how to use tools and machinery necessary to complete their projects. The student will work with the instructor to develop plans to satisfy the course requirements.

+ Dual-enrollment course

Design and Drawing For Production+

Full-Year Course 1 Unit
Grades 9-12

Prerequisite: None

Students will work through the creative design process to develop solutions to various design problems. An emphasis will be placed on sketching and 3-D computer modeling as a means to accurately describe their solutions to problems. Students will learn the basics of: technical drawing, dimensioning, computer aided drawing, and model making.

Note: All students may use this course to satisfy the required one unit of Art/Music credit for graduation.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Digital Electronics+

Semester Course ½ Unit
Grades 10-12

Prerequisite: Electricity/ Electronics or teacher's permission.

This course is designed for students considering careers in engineering, computer science or electronics. Students in this course will learn about circuits that are found in computers, watches, CD players, video games and calculators. Students will design, test, and build circuits. Students will use computer simulation software as a circuit design tool.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Electricity/Electronics+

Semester Course ½ Unit
Grades 9-12

Prerequisite: None

Students will learn how electricity is generated, transmitted, controlled, and used. This "hands-on" course will involve students in many activities including: building electronic projects, automotive wiring, residential wiring, using testing instruments and building projects.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Manufacturing Systems

Semester Course ½ Unit
Grades 9-12

Prerequisite: None

In this course students will be working with a variety of machines and hand tools in order to mass produce products for consumers. Students will learn and implement techniques used in the manufacturing industry to increase production time as well as increase production quality. Students will be educated in the use of hand tools and machinery necessary to complete their manufacturing projects.

Metals and Fabrication

Semester Course ½ Unit
Grades 10-12

Prerequisite: None

This is a 20-week course based on basic metals; iron, aluminum, zinc, copper, tin, and several others. Units covered include precision machining, sheet metal fabrication, soldering, and brazing. Students learn to use the vertical mill, lathe, cnc laser, spot welder and more.

Principles of Engineering+

Full-Year Course 1 Unit
Grades 11-12

Corequisite or Prerequisite: Geometry & Physics R

Principles of Engineering (POE) is a course in applied physics and mathematics that helps students develop their understanding of the various fields of engineering and engineering technology. Topics of study include: the history of engineering, fields of engineering, technical presentation and communication standards, computer-aided design (CAD), engineering design process, simple machines and mechanisms, electrical systems and circuit analysis, materials and material properties, statics and kinematics.

Transportation Systems

Semester Course ½ Unit
Grades 9-12

Prerequisite: None

Students will learn how land, aviation, aerospace and marine transportation systems operate. Students will design and build model rockets, airplanes and boats. Students will learn how to properly maintain vehicles through a unit in Consumer Automotive.

World of Technology

Full-Year Course 1 Unit
Grades 11-12

Corequisite or Prerequisite: Geometry and 1 unit of Regents Science.

World of Technology is a course in pre-engineering, and problem solving. Units in structural engineering, electrical/mechanical engineering, auto safety engineering, power tools, and engineering materials. This is a full year course. Students must be in 11th or 12th grade. This course counts as a third unit of math or science.

Note: Students may take this course as either a technology elective, a third year of mathematics OR a third year of science.

High School Technology Department

5-Unit Sequence Requirements

Required	Career Exploration and Financial Literacy+		
Systems Courses			
Select 2	Manufacturing Systems	Transportation Systems	Construction Systems
Foundation Courses			
Select 2 *	Electricity/ Electronics+	DDP+ – 1 unit	

**Extra foundation course may be used as elective credit.*

Balance of 5 Units Chosen From This List		
World of Technology – 1 unit	Creativity & Innovation	Principles of Engineering – 1 unit
Architectural Drawing & Design – 1 unit	Digital Electronics+	Computer Aided Design & Drawing+
Metals and Fabrication		

Suggested Sequence	
Grade 9	Design & Drawing for Production+ (DDP)
Grade 10	System/Foundation Courses
Grade 11-12	Career Exploration and Financial Literacy+ System/Foundation Courses Remaining Elective Units

+ Dual-enrollment course

World Languages

Gates Chili Central Schools proudly offers French, Italian, Latin & Spanish to all students. Our goal is to prepare students to be successful in an increasingly interconnected world by becoming proficient in a second language and developing an understanding, appreciation & tolerance of other cultures. Students that are interested in pursuing the New York State Seal of Biliteracy (see page 11) in one of these languages will need to continue their language studies through a Level IV or Level V course.

French II

Full-Year Course 1 Unit
Grades 9-12

Prerequisite: French I or French IB

Emphasis will continue on the communicative approach. Students will learn how to deal with experiences such as: Traveling, excursions, shopping, visits to the doctor or hospital, movies, entertainment, weekend activities, social events. The cultural themes are authentically presented and they are visually attractive. Students participate in all classroom activities from short dialogues to pattern and vocabulary rehearsals. Basic sentences and reading passages are useful in establishing written language structures.

French III

Full-Year Course 1 Unit
Grades 10-12

Prerequisite: French II

Emphasis is given on conversation for everyday life experiences. The communicative approach will continue to be used. The students will study and learn various language structures, involving further study of topics discussed in levels I and II on a more sophisticated level of self-expression. The students will prepare to take the French Comprehensive Regents Equivalency Examination at the end of the school year. Mastery of grammar and syntax is a key element in this level.

French IV+

Full-Year Course 1 Unit
Grades 11-12

Prerequisite: French III

Students will complete a broad range of activities including poetry, drama, philosophy, art and music in order to expand their overall knowledge and understanding of French speaking cultures throughout the world. The reading will include a classic novel and contemporary selections. They will study complex grammar structures and concepts. Students will also have the opportunity to experience French cuisine and debate current issues of interest to the students.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

French V+

Full-Year Course 1 Unit
Grade 12

Prerequisite: French IV H+

Students who enroll in French V H should already have a good command of French grammar and vocabulary and have competence in listening, reading, speaking, and writing. The course will emphasize the use of language for active communications and help students develop the ability to understand spoken French in various contexts; a French vocabulary sufficiently ample for reading newspaper and magazine articles, literary texts, and other non-technical writings without dependence on a dictionary; and the ability to express themselves coherently, resourcefully, and with reasonable fluency and accuracy in both written and spoken French. The course content will reflect intellectual interests shared by the students and teacher (the arts, current events, literature, sports, etc.). Materials might well include audio and video recordings, films, newspapers, and magazines. The course seeks to develop language skills (reading, writing, listening, and speaking) that can be used in various activities and disciplines rather than to cover any specific body of subject matter. Extensive training in the organization and writing of compositions will also be emphasized.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Italian II

Full-Year Course **1 Unit**
Grades 9-12

Prerequisite: Italian I or IB

The basic communication skills will continue to be developed. Major topics of discussion are: community, around the city, personal identity, relationships, family, friends, the educational system, sports, hobbies, music, artisan crafts and the natural world. The repetitiveness of basic expression associated with cultural content is the performance base of language learning, with emphasis being placed on effective communication.

Italian III

Full-Year Course **1 Unit**
Grades 10-12

Prerequisite: Italian II

Students will continue to increase communication skills to prepare for the Comprehensive Regents Equivalency Examination. Major topics to be covered include technology and social media, pop music, fashion, shopping, food and cooking, health and wellness, daily routines, house and home, and international travel as well as many of the previously studied topics with more complex and detailed information.

Italian IV+

Full-Year Course **1 Unit**
Grades 11-12

Prerequisite: Italian III

The communicative skills will continue to be expanded. Students will refine these skills by studying complex grammar structures. Major topics to be covered include breakfast and Italian coffee culture, meals and dining out, regional foods, the Slow Food movement, everyday life, mass media, immigration, and the arts. Current issues will be discussed in Italian, and students will have the opportunity to experience Italian dishes.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Italian V+

Full-Year Course **1 Unit**
Grade 12

Prerequisite: Italian IV H+

The course will be based on developing reading, writing, listening and speaking skills within a cultural frame of reference reflective of the richness of Italian language and culture. The study of the Italian language system will focus on the structural aspects of the language while at the same time interweaving cultural knowledge throughout the course. The Italian V H language and culture course will help to prepare students to demonstrate their level of Italian proficiency across the three communicative modes (interpersonal, interpretive, and presentational), and throughout the five goals of the Standards (communication, cultures, connections, comparisons & communities).

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Latin II

Full-Year Course **1 Unit**
Grades 9-12

Prerequisite: Latin I or IB

This course is designed for those students who have successfully completed Latin I or IB. The student will be enriched by an infusion of the Latin curriculum into such diverse subjects as English, history, science, etc. Latin literature will be translated and compared to English literature. Therefore, a more rigorous approach to grammar and syntax will be emphasized. A continued study of Roman daily life will bring the student on an exciting journey into the world of gladiators, charioteers, and mythological heroes. Art and architecture will be brought to life, as they will be introduced throughout the course to augment the student's vision of both the past and present human condition.

Latin III

Full-Year Course **1 Unit**
Grades 10-12

Prerequisite: Latin II

Emphasis will be on the Latin syntax as presented in readings about Roman heroes, both legendary and historical, while the student further delves into the ancient world. A review of previously studied aspects of Latin culture, mythology, government, as well as an introduction to new concepts, will be studied.

+ Dual-enrollment course

Latin IV+

Full-Year Course **1 Unit**
Grades 11-12

Prerequisite: Latin III

This course is designed to introduce the student to post-classical Latin. Selected readings (adapted) will be the focus of our work. Erasmus, Einhard, Thomas More and Vergil, to name a few authors, will transport the student to the Medieval and Renaissance periods. A review of previously studied aspects of Latin grammar, as well as an introduction to new concepts will be studied.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Spanish I

Full-Year Course **1 Unit**
Grades 9-12

This course is for students just beginning the study of Spanish or for those students who have not yet earned one high school credit in World Languages to fulfill the New York State graduation requirement. In this course students will communicate on everyday topics and occurrences by listening, speaking, writing and reading in Spanish, as well as learn about the various Hispanic cultures.

Spanish II

Full-Year course **1 Unit**
Grades 9-12

Prerequisite: Spanish I or IB

This course is for students who have successfully completed courses Ia and Ib, or Spanish I R. Students will continue to develop and expand upon the topics and language skills covered in level I. Students will increase their knowledge of the language by covering such topics as personal identification, daily routine, family and friends, community, cities and towns, physical well being, daily activities, memories of childhood, and meal taking.

Spanish III

Full-Year Course **1 Unit**
Grades 10-12

Prerequisite: Spanish II

Emphasis will be on the functional use of the language for communicative proficiency in everyday real life situations and on preparation for the Comprehensive Regents Equivalency Examination. Major topics include: summer and free time activities, relationships among family and friends, art and music, current events, community, professions, and shopping. Along with additional new topics, students expand their knowledge on topics previously studied and they will increase their knowledge of Spain and Latin America.

Spanish IV+

Full-Year Course **1 Unit**
Grades 11-12

Prerequisite: Spanish III

In this course students will expand and build on the vocabulary topics studied in previous years. The focus will be on increasing and refining the use of the various structural topics of the Spanish language at a level comparable to that of a beginning/intermediate college course. Additional cultural aspects of the Hispanic world as well as current events will be explored through authentic resources such as music, art & movies. There will be an emphasis on listening, speaking, reading, and writing in the Spanish language at an increased level of proficiency and fluency.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Spanish V+

Full-Year Course **1 Unit**
Grade 12

Prerequisite: Spanish IV H+

This course will continue to build on the topics studied in Spanish IV H+. There will be an emphasis on the use of language for active communication while further developing the ability to understand spoken Spanish in various contexts. Students will continue to increase and refine the use of the more complex grammatical structures of the Spanish language at a level comparable to that of a beginning/intermediate college course. Additionally, students will continue to build a Spanish vocabulary sufficient for comprehending authentic resources such as newspaper and magazine articles, literary texts, music and movies. The goal is for students to express themselves coherently, resourcefully and with reasonable fluency and accuracy in both written and spoken Spanish.

Dual-enrollment classes are subject to change yearly based on college approval. Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

New Visions Program

New Visions Health Professions is a one-year career exploration program for seniors. Through New Visions, students can network with industry professionals, participate in job shadowing and earn high school and college credits.

High school credit:

- 1 credit Social Studies
 - o Economics- ½ credit
 - o Participation in Government- ½ credit
- 2 elective credits for participation in career exploration

Dual enrollment may be earned for college classes with MCC including Foundations of Health and Wellness (HED 130) and Intro to Economics (ECO 101).

There is an application and acceptance process required for all New Visions Students.

Dual Enrollment - Students may have the opportunity to obtain college credit for this course. The college credit option DOES require a fee.

Please be advised that the NCAA Eligibility Center does not recognize the New Visions curriculum as meeting the Approved Core Course(s) Qualifications at the Division I or II levels.

Find out more at the website: www.monroe2boces.org/cte

WEMOCO

An Education for the Real World

Prerequisite: Completion of algebra, good academic standing and good attendance record.

Career and technical education offers you a first-hand opportunity to explore any of a number of career fields. Relying heavily on applied learning, it's an intensive, exciting way to learn if a particular career is the right one for you.

You can learn the skills you need for immediate employment, or prepare for a career that requires further education.

Either way, business and industry are waiting for you. Their need for skilled workers has never been greater, and WEMOCO can help you open the door to those opportunities.

Agriculture

Careers in Agriculture

Students will be introduced to career pathways in agriculture, with a focus on processing, marketing, distribution, and development of products and resources. Opportunities include preparation for careers working outdoors, around animals and livestock, and with high tech equipment. Students will engage in a variety of agricultural activities at a local farm to explore plant science, horticulture, livestock animals, and conservation.

Communications

Digital and Visual Communication (C)

Master the basics of graphic design, photography, videography and strategic communications while using industry-aligned software and equipment.

Construction

Carpentry (C)

Learn fundamentals of residential carpentry and gain real-world experience by contributing to the construction of a new house.

HVAC (D, C)

Learn fundamentals of and practice fitting, assembling, and preparing piping. Install residential/ commercial heating, air conditioning, refrigeration and ventilation systems.

Residential and Commercial Electrical (C)

Learn electrical theory, wiring and to interpret and apply the requirements of the National Electric Code for residential and commercial construction projects.

Education

Child and Family Development (D, C)

Learn about human development from birth to adulthood in preparation for a career in helping professions such as teacher, social worker, or counselor. Assist in operating a pre-school aged playgroup.

Health Science

Dental Assisting (D, C)

Prepare for and practice chairside assisting and gain 200 hours of clinical experience in local dental office rotations.

Exercise Science (D, C)

Prepare for personal training certification while gaining experiences in local fitness, athletic, rehabilitative and wellness facilities.

Nurse Assisting and Associated Health Careers (D, C)

Prepare for and practice patient care and gain more than 100 hours of clinical experience in a medical setting.

Medical Laboratory Assisting and Phlebotomy (D, C)

Train in phlebotomy (drawing blood), medical terminology, and general laboratory procedures for use in medical, veterinary, environmental and food labs.

Hospitality

Baking (C)

Gain skills in the preparation of confectionery foods: breads, pizza, rolls, cakes, cookies and pastries. Learn to operate a retail bakery.

Culinary Arts (D, C)

Prepare food in professionally-equipped kitchens while acquiring knowledge of nutrition, menu planning, catering, dining service and restaurant management.

Human Services

Cosmetology (D, C)

Gain the professional skills and hours necessary to pass the NYS cosmetology licensing exams while practicing skills on mannequins and clients, plus shadowing in local salons.

Information Technology

Computer Technology (D, C)

Learn about the CompTIA A+ curriculum through the Cisco Networking Academy, customer service support and video game design.

Law and Public Safety

Criminal Justice (D, C)

Learn about the three branches of criminal justice while preparing for civic-minded professions including law enforcement, the courts and corrections.

Manufacturing

Welding (D, C)

Learn to weld metal together using industry- standard processes of Shielded Metal Arc Welding (SMAW-Stick), Gas Tungsten Arc Welding (GTAW-TIG), and Gas Metal Arc Welding (GMAW-MIG), as well as plasma arc and oxy-acetylene cutting.

Advanced Manufacturing (D, C)

Learn the intricacies of removing metal to create parts with high precision. Build skills necessary to operate manual and Computer Numerical Controlled (CNC) lathes, mills and power saws for employment in a high-demand field.

Transportation

Auto Body and Collision Repair Technology (C)

Learn detailing and to repair and refinish vehicles, including metal straightening, MIG-welding, plastic fillers and major collision repair.

Automotive Technology (D, C)

Maintain, diagnose and repair vehicles by identifying mechanical and electronic/computer issues that affect vehicle performance and safety.

Heavy Equipment Operation and Maintenance (C)

Prepare for a commercial driver's license (CDL) and learn skills required by heavy equipment operators for construction, landscaping and highway industries, as well as the maintenance and repair of construction related equipment.

Outdoor Powersports Technology (C)

Learn to diagnose/troubleshoot, repair and maintain two- and four-stroke recreational and utility machines. Gain real-world experience driven by seasonal demands.

*D = Dual Enrollment

*C = Industry Credentials (or credentialing/ licensing preparation)

Locally Approved Courses

Locally Approved Courses are created to meet the needs of students who thrive with additional support and flexibility, there are two categories of Locally Approved Courses offered at WEMOCO: Introductions and Foundations.

Introductions Programs

Introductions Courses have a greater focus on technical skills than Foundations Courses with increased rigor. Introductions Course units are aligned to basic content knowledge and skills related to industry.

Introduction to Construction Trades

Explore and build knowledge/skills in four areas of construction trades: carpentry, HVAC/plumbing, electrical and heavy equipment.

Introduction to Transportation Trades

Explore auto body, small engine vehicles and automotive repair. Try your hand at interior and exterior cleaning, small engine maintenance, tire changes, tire rotations, and oil changes. Learn the basics of diesel engines and heavy equipment operation.

Foundations Courses

Building and Grounds Maintenance

Equip yourself with lifelong skills in facility maintenance and landscape management. Learn how to be safe on the job site, whether it's waste management or snow removal. Try your hand at electrical, plumbing and interior painting. Explore exterior maintenance and horticulture.

Food Services

Get a taste of the culinary world in a supportive kitchen environment. Savor the basics as you start a journey in the food industries and sharpen your culinary skill. Learn all about kitchen equipment, weights and measurements. Prepare food like a professional and learn how to present dishes with customer service, safety and sanitation in mind.

Life and Career Foundations

Shape your skills and let your abilities shine. Start building communication, teamwork and time management skills - the keys to future success. Focus on completing tasks and following step-by-step directions. Join discussions, collaborate with your peers, solve problems and explore a variety of jobs in the classroom, building and community.



The Gates Chili Central School District is dedicated to fostering curiosity, growth and diversity within our school community. The district celebrates and embraces differences and strives to dismantle exclusion, bias, racism, and prejudice of all forms.

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