

IRONDEQUOIT HIGH SCHOOL



2023 – 2024 COURSE CATALOG

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COUNSELING DEPARTMENT

Students are assigned to counselors alphabetically in grades 9 through 12. Students and parents are encouraged to contact them with any questions or concerns they may have. Appointments may be made by stopping by the Counseling Center or by calling 336-2921 between 7:45 a.m. and 3:45 p.m.

The West Irondequoit CSD has a comprehensive school counseling program throughout grades K-12, that culminates at Irondequoit High School. Our program transitions students from Duke, holistically targeting students' career, social/emotional and academic growth. Annually, all students are scheduled for individual and group experiences as they go through school. The focus of these activities is on realistic decision making as it relates to post-high school planning.

Academic: Develop and monitor each student's academic program, including students with special needs.

Career: Assist each student with the decision-making and development of appropriate career goals by identifying approaches for achieving those goals.

Social/Emotional: Assist and support each student in the development of self-awareness and how it relates to the world around him/her.

COLLEGE AND CAREER CENTER

At Irondequoit High School, the College and Career Center is an important resource for the career development of our students. It is a place where students and parents can examine career opportunities and obtain information on college visits, scholarships, financial aid, the military and emerging occupations. The Center contains resources for PSAT, SAT, ACT and ASVAB testing dates. It is a place a student can learn about job shadowing, career exploration, field trips and work experience programs that could potentially lead to earning school credit. Students also have the ability to get additional help on career readiness such as resume writing and interview skills and learn about volunteer opportunities. Students are free to visit the Career Center to explore career materials or to discuss individual career plans with your Counselor. Parents and community members are also welcomed to use the College/Career Center.

[NAVIANCE](#)

Naviance is a Web-based post high school and career research planning tool for students, parents and counselors. This is a resource that students will use throughout high school.

COURSE SELECTION TIMELINE 2022-2023 IMPORTANT DATES FOR PARENTS!

December 7th-23rd	Students and parents will be able to electronically select courses.
December 15th	8 th Grade Parent Orientation
Jan. 3rd to Feb. 17th	Students meet with their counselor to review graduation requirements and request courses for the 2023-2024 school year. High School families will receive an individualized proposed course selection sheet via email.
June/July	Course request adjustments based on final grades.
August	Schedules available through Infinite Campus.

COURSE SELECTION INFORMATION

When selecting courses for the 2023-2024 school year, keep in mind your interests, aptitudes, and goals. Also, consider the following:

- Select subjects which are challenging and in which you can expect to do reasonably well if you make a good effort. Your teacher's recommendation can help you in this regard.
- Select subjects that will develop your strengths. For example, if you have high ability in mathematics, elect as many math courses as are available, and develop your ability to a high level of proficiency. Keep in mind, however, that subjects that are not your strongest may be needed in for what you may choose to study in the future. Work hard in all subjects to be sure that you do not close any doors that may be important to your future, and that you develop a well-rounded background.
- Select the subjects required for admission to the field of work or the institution of higher education you will wish to enter following graduation from high school.
- Discuss your future plans with your parents and with your counselor. Your counselor will assist you in determining the requirements for the various career paths that interest you.
- Students should not be discouraged from taking a course because of its cost (e.g., AP, DECA, Dual Credit). If financial need exists, please discuss this with a counselor, teacher, or administrator.

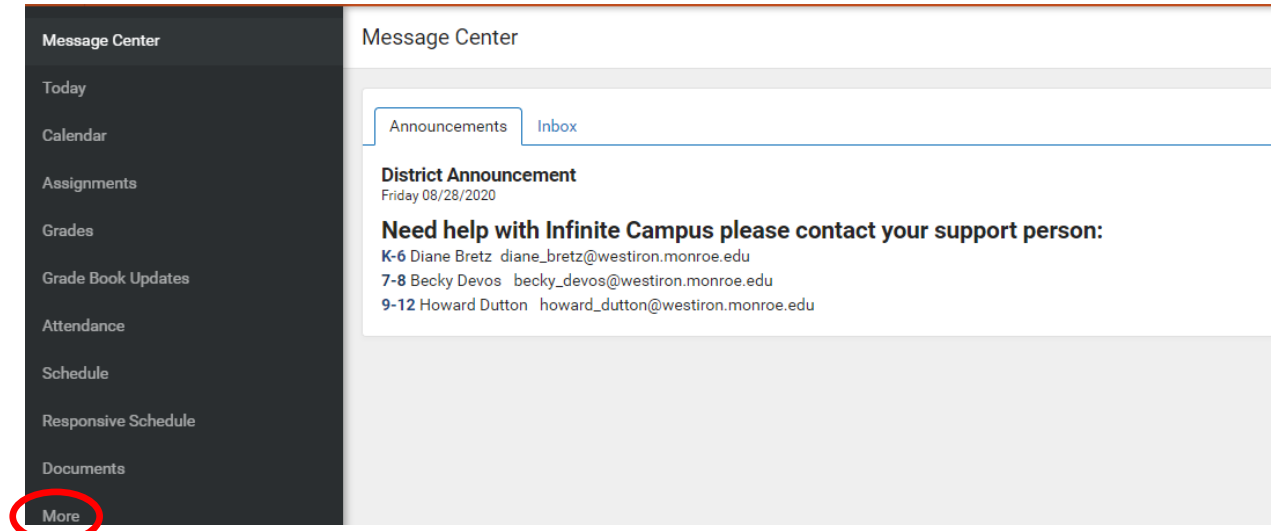
HOW TO USE THE COURSE SELECTION GUIDE

1. This catalog includes important information and school policies related to course selection and graduation requirements. All students and families are encouraged to review it carefully.
2. Students/parents may use their portal account to enter course requests prior to their student meeting with the school counselor. The portal will open in early December and close to families prior to winter break.
3. Counselors will schedule an individual meeting with each student to select courses during January and February.
4. Following the counselor meeting, students course selection sheets will be emailed home to families. Parents should feel free to contact their **current** school counselor with any questions they may have.
5. Final schedules will be available in IC in August. If you have any questions, please contact the school counselor directly prior to the first day of school. Schedule changes after the school year begins may be limited. Please see our Add/Drop policy that starts on page 13.

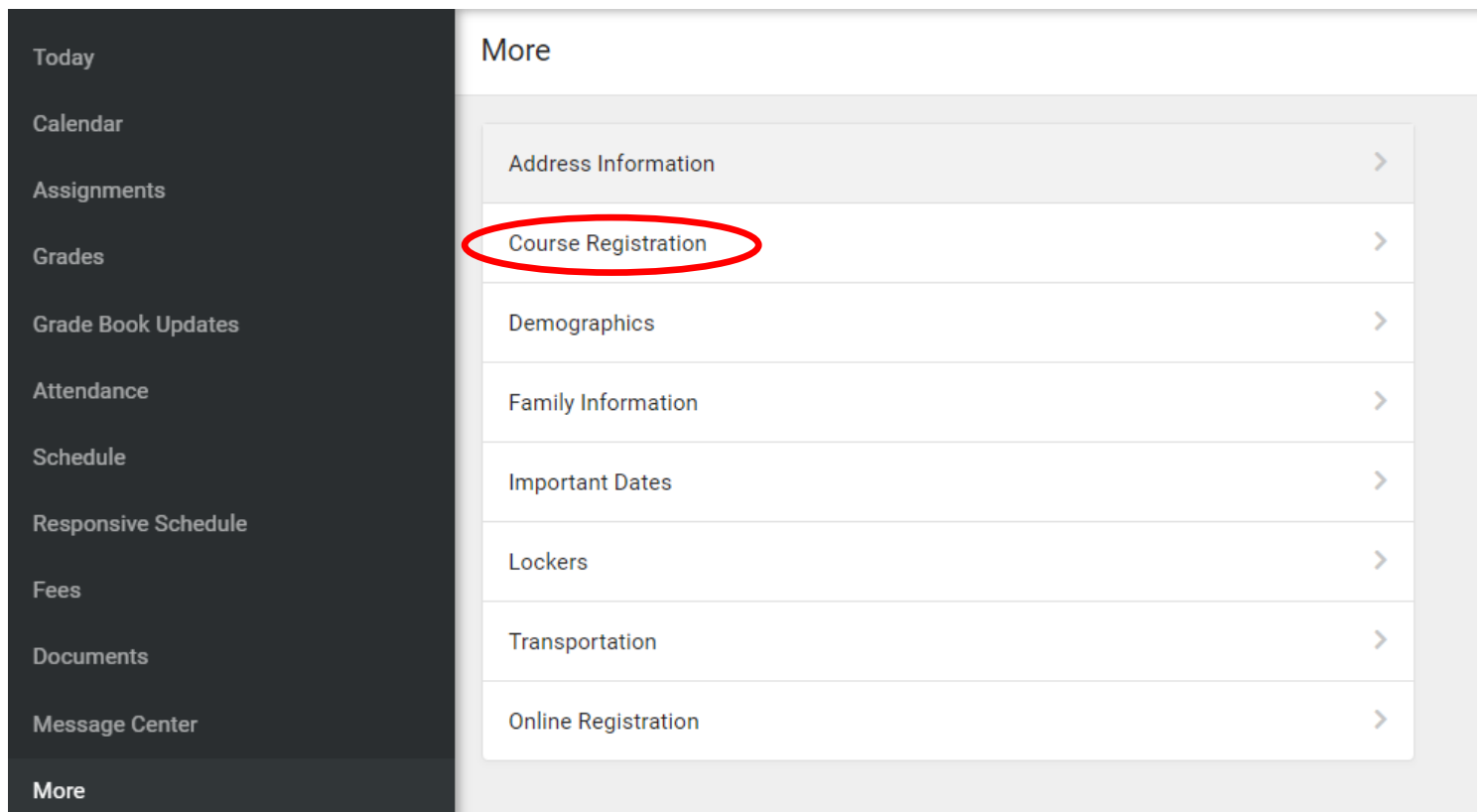
ON-LINE COURSE REGISTRATION

This document will walk you through the On-Line Course Registration. As always, if you have any questions, please don't hesitate to reach out to your school counselor or grade level administrator.

If you do not have a Parent Portal account, please contact the Counseling office (336-2921).
Once you log into your Portal account you will see this:

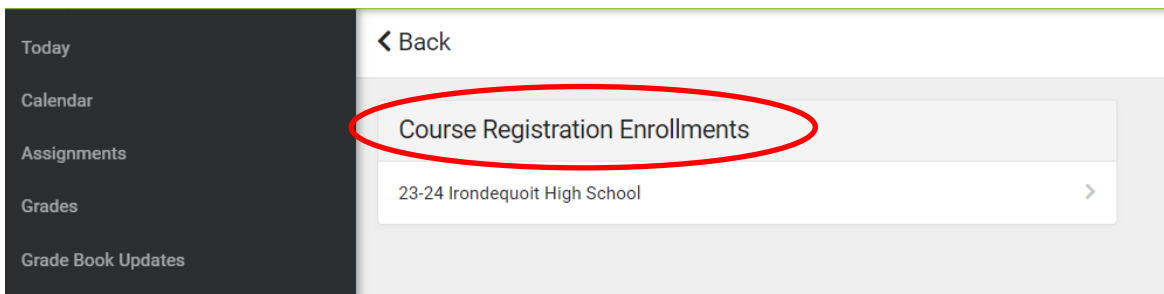


From the left-hand side, you will select **More** as indicated above and that takes you to the following screen:

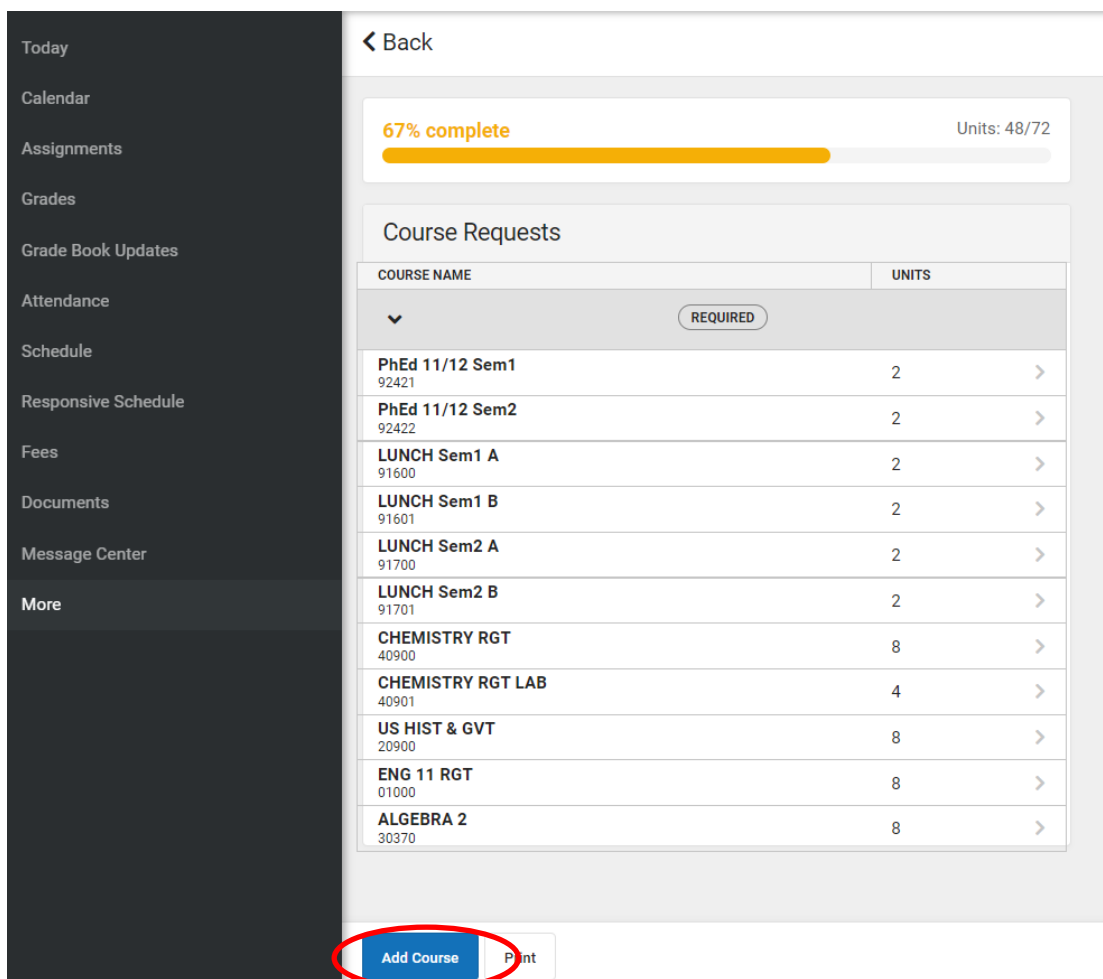


Select **Course Registration** as indicated above.

That brings you to the screen shown here:



Select **23-24 Irondequoit High School** under **Course Registration Enrollments** to continue as shown below:



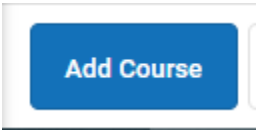
Consult the **IHS 2023-2024 Course Catalog** (<https://ihs.westirondequoit.org/>) for more information about available courses. In order to begin the selection process, select **Add Course**.

Some courses have been pre-populated, based on what your student is enrolled in this school year. These may be changed, based on individual students' needs or choices, but guardians and students will not be able to delete pre-populated courses. Instead, add the course you wish to take as an elective and the counselor will rectify choices during the individual course registration meeting. From the example above, if a student wished to take Chem AP in place of Chem Rgt that student would add Chem AP as a course request and Chem Rgt would remain on the list until the student meets with the counselor.

(Please Note: The Progress bar does NOT represent a true depiction of your progress to complete course registration. Your Counselor will review your schedule and its completeness during the schedule meeting.)

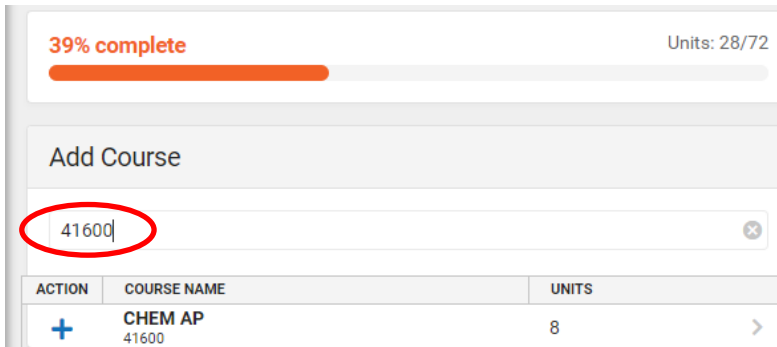
Adding a Course:

Please click on the Add Course button on the bottom left portion of the screen.

A blue rectangular button with the text "Add Course" in white, centered on the button.

To add a course, you can either:

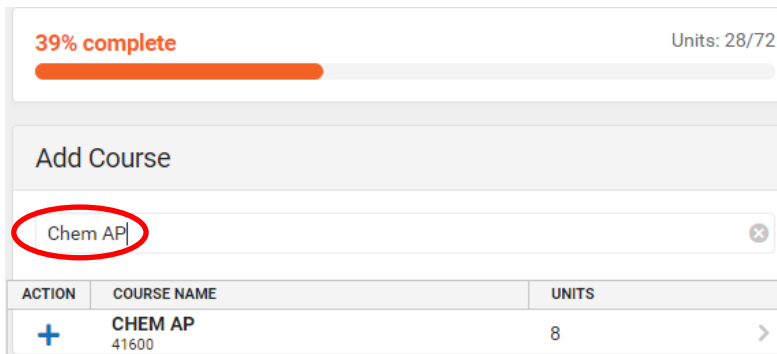
1) Enter the course number in the Search Courses box as shown:



The screenshot shows the "Add Course" interface. At the top, there is a progress bar labeled "39% complete" and "Units: 28/72". Below this is the "Add Course" section with a search box containing "41600". Below the search box is a table with the following data:

ACTION	COURSE NAME	UNITS
+	CHEM AP 41600	8

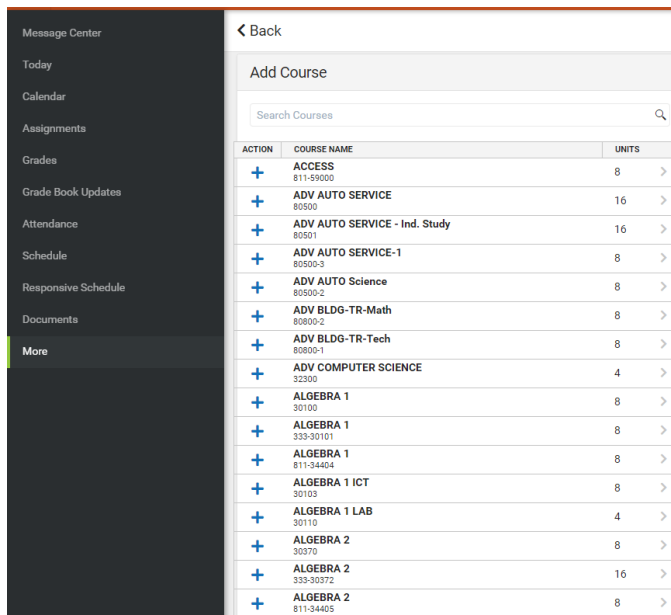
2) Or enter the course name in the Search Courses box as shown:



The screenshot shows the "Add Course" interface. At the top, there is a progress bar labeled "39% complete" and "Units: 28/72". Below this is the "Add Course" section with a search box containing "Chem AP". Below the search box is a table with the following data:

ACTION	COURSE NAME	UNITS
+	CHEM AP 41600	8

2) Or scroll up and down and select the course from the list.



The screenshot shows the "Add Course" interface with a list of courses. On the left is a navigation menu with options: Message Center, Today, Calendar, Assignments, Grades, Grade Book Updates, Attendance, Schedule, Responsive Schedule, Documents, and More. The main content area shows a "Back" button and a "Search Courses" box. Below the search box is a table with the following data:

ACTION	COURSE NAME	UNITS
+	ACCESS 811-39000	8
+	ADV AUTO SERVICE 80500	16
+	ADV AUTO SERVICE - Ind. Study 80501	16
+	ADV AUTO SERVICE-1 80500-3	8
+	ADV AUTO Science 80500-2	8
+	ADV BLDG-TR-Math 80800-2	8
+	ADV BLDG-TR-Tech 80800-1	8
+	ADV COMPUTER SCIENCE 32300	4
+	ALGEBRA 1 30100	8
+	ALGEBRA 1 333-30101	8
+	ALGEBRA 1 811-34404	8
+	ALGEBRA 1 ICT 30103	8
+	ALGEBRA 1 LAB 30110	4
+	ALGEBRA 2 30370	8
+	ALGEBRA 2 333-30372	16
+	ALGEBRA 2 811-34405	8

Using the Chem AP (41600) as an example once you have navigated to the desired course, click on the blue + in front of the course name.

The screenshot shows the Infinite Campus interface. On the left is a navigation menu with items: Today, Calendar, Assignments, Grades, Grade Book Updates, Attendance, Schedule, and Responsive Schedule. The main content area shows a progress bar for '100% complete' with 'Units: 20/18'. Below this is an 'Add Course' section with a search input containing '41600'. A table below the search input has the following data:

ACTION	COURSE NAME	UNITS
+	CHEM AP 41600	8

The following screen will appear.

The 'Add Course' dialog box asks: 'Would you like to add this course as a Request or an Alternate?'. It displays 'CHEM AP 41600' and has three buttons: 'Request', 'Alternate', and 'Cancel'. The 'Request' button is circled in red.

Click on the **Request** button. You may get a warning message.

The screenshot shows the main interface with a red warning message box in the top right corner. The message reads: '41600 - CHEM AP This request requires more units than you have available. You may add this course as an alternate, or remove currently requested courses.' The 'Add Course' section and table from the previous screenshot are visible in the background.

If you receive this warning message, click out of the message (click on x). Click on the blue + again and select the Alternate button. You will get a green message stating the course has been successfully added as an Alternate.

Select the **Back button once** to take you back to the first page where you can see your summary of selected courses. This is where you will add your other courses and continue as you did in the first course selection.

(Please Note: The Progress bar does NOT represent a true depiction of your progress to complete course registration. Your Counselor will review your schedule and its completeness during the schedule meeting.)

< Back

50% complete Units: 36/72

Course Requests

COURSE NAME	UNITS	
REQUIRED		
ENG/HUM 12 01405	8	>
PRT GVT SEM 21400	4	>
ECON 21600	4	>
PhEd 11/12 Sem1 92421	2	>
PhEd 11/12 Sem2 92422	2	>
LUNCH Sem1 A 91600	2	>
LUNCH Sem1 B 91601	2	>
LUNCH Sem2 A 91700	2	>
LUNCH Sem2 B 91701	2	>
REQUESTS		
CHEM AP 41600	8	>

Add Course Print

FAQ

A course I selected comes up as an “Alternate”.

You have exceeded the maximum allowable space in your schedule. Prioritization of classes the student wishes to take as well as graduation requirements will be determined during the individual course registration meeting with the counselor.

Here is a course that was added after the maximum allowable space was met and the subsequent system response:

100% complete Units: 72/72

80800-1 - ADV BLDG-TR-Tech

Final Grade-Transcript - Technology Credits: 1.000
Units: 8
No course description.

80800-1 - ADV BLDG-TR-Tech
100% complete. You cannot add any more requests to your course registration. You may add this course as an alternate, or remove currently requested courses.

Add Request Add Alternate

As the alert states (Red Box in the upper right-hand corner) you may add this course as an **Alternate**. Once you do add as an alternate and select **Back twice** you are back to the main course request page and you will see this:

< Back

ENG/HUM 12 01405	8	>
PRT GVT SEM 21400	4	>
ECON 21600	4	>
PHEd 11/12 Sem1 92421	2	>
PHEd 11/12 Sem2 92422	2	>
LUNCH Sem1 A 91600	2	>
LUNCH Sem1 B 91601	2	>
LUNCH Sem2 A 91700	2	>
LUNCH Sem2 B 91701	2	>

REQUESTS

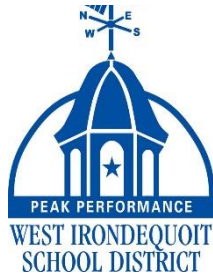
CHEM AP 41600	8	>
STAT AP 31900	8	>
CALC AB AP 31500	8	>
SPANISH 5A 53100	8	>
VIRT BUS MANAGEMENT 57000	4	>
PRINC/ENGIN-Science 80900-1	8	>

ALTERNATES

ADV BLDG-TR-Tech 80800-1	8	>
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Add Course Print

Please note in this example that all courses will not fit in your schedule, but this addition will help in discussion with your student's counselor.



ACHIEVING HIGH STANDARDS

At West Irondequoit, we seek Peak Performance for all students through the mastery rigorous course outcomes and high standards. Throughout this catalog, you can access the NYS Learning Standards for each content area. West Irondequoit has also integrated 21st Century Skills to prepare students for success in both college and career pathways. Our comprehensive curriculum represents the skills, content, and competencies each student must reach to achieve their diploma. At Irondequoit High School, we seek to enable each individual to meet or exceed standards and achieve to their full potential.

As you develop your four-year graduation plan with your counselor, teachers, and family, keep in mind these keys to success:

- **Take a full course load** (at least 5½ credits each year). Colleges and employers want people who have a strong work ethic.
- **Maximize your senior year.** This should be the most challenging year of high school, not a “year off,” especially for those students preparing to enter college. Competitive colleges look for students who have taken four credits of math, science, and a foreign language. You need to maintain the study habits and critical thinking skills you’ve developed throughout high school.
- **Take electives!** One advantage of IHS is our comprehensive programs, as you can tell from this catalog. We encourage **all** students to explore areas of interest in the core subject areas, the arts, and occupational education by taking electives.
- **Seek academic support services when needed.** Your counselor can help explain the range of supports available for students who are having difficulty in a class. These range from informal “drop-ins” for help from a teacher in a department center, to peer tutors, to more frequent support “classes” that assist with basic skills and review.

ADVANCED PLACEMENT & DUAL ENROLLMENT PROGRAMS

Students are encouraged to challenge themselves by taking full advantage of Irondequoit’s nationally recognized Advanced Placement program. We offer a wide variety of AP classes (see chart on page 12). Although these classes are college-level and require a substantial commitment of time and effort, they provide an opportunity to pursue college credit and to develop rigorous habits of mind. Although the AP exams carry a fee (approximately \$96), no student will be denied participation in the AP program for financial reasons. Once the school year has begun, it is recommended that students continue to challenge their thinking and remain in the AP or advanced coursework. Consult the course teacher and your school counselor for support and additional resources if you need it. In addition, dual enrollment course offerings provide a high level of challenge in more specialized or technical fields. Challenge yourself with these outstanding courses!

COLLEGE CREDIT AT IHS

Irondequoit High School offers a variety of college credit opportunities for students who wish to challenge beyond the high school curriculum. In addition to our nationally recognized Advanced Placement (AP) program, students can elect to earn dual credit in a variety of courses through arrangements with Monroe Community College, Rochester Institute of Technology, and other colleges. Both AP and dual-enrollment credits may transfer to colleges and universities throughout the nation.

ADVANCED PLACEMENT COURSES

AP is an international standard, and a score of 3 out of 5 generally indicates mastery of the subject and the granting of college credit. However, individual colleges make their own decisions about granting credit, depending on the student's major and other factors.

COST: AP exams take place in May, and there is a fee associated with each test taken.

<p><u>English</u> English Language and Composition English Literature and Composition</p> <p><u>Math</u> Calculus AB Calculus BC Computer Science Programming Computer Science Principles Statistics</p>	<p><u>Social Studies</u> AP Government & Politics Macroeconomics Psychology US History World History</p> <p><u>Languages</u> French German Spanish</p>	<p><u>Science</u> Biology Chemistry Physics 1 Physics C (2 exams – AP-C <i>Mechanics and AP-C Electricity and Magnetism</i>)</p> <p><u>Music</u> Music Theory</p> <p><u>Art</u> Art and Design</p>
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DUAL CREDIT COURSES

Dual credit enrolls students in college courses while they are still in high school, allowing them to earn credit for both. Dual enrollment courses are offered in the classes/programs listed below. Students may elect to take up to 11 dual credits from any one institution per semester.

COST: There is a fee that must be paid to the college granting credit for each class. Fees vary based on the college and number of credits.

<p><u>Business Education</u> Career and Financial Management College Accounting College Business Law Personal Investment Virtual Business Management</p> <p><u>Technology Education</u> Advanced Auto Services Architectural Engineering Drawing & Design for Production (DDP) Electricity & Alternative Energy Principles of Engineering Robotics & Automation</p>	<p><u>Languages</u> French 4, 5 German 4, 5 Italian 4, 5 Spanish 4, 5</p> <p><u>Science</u> AP Physics 1 Optics</p> <p><u>Other</u> The Art of Teaching</p>	<p><u>Eastern Monroe Career Center</u> Auto Services Cisco Networking Collision Report and Technology Construction Trades Criminal Justice Culinary Arts Emergency Services Engineering Fabrication Laboratory Technology New Visions Medical PC Report/Network Cabling</p>
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THE IHS ACADEMIC POLICIES

COURSE LOAD: All students, including seniors, are expected to enroll in at least 5½ credits each year, including Physical Education. Exceptions can be made with Principal's approval.

COURSECHANGES/ADD-DROP

PROCEDURES: School counselors have an individual course registration meeting with students every year. These thoughtful conversations, involving multiple stakeholder's input, lead to schedules being created. As a result, schedule changes after the school year begins may be limited.

To Add A Course: An add, of any course, must occur within the first two weeks of the course (a signature from the teacher of the class being added may be required).

To Drop A Course: No course drops will be allowed until a student has attended the class for four school days. After this, schedule changes may be allowed. Signatures of approval are required by the teacher, parent and counselor. If dropping a class, students must still maintain the required minimum course load (5.5 credits). No course drops will be allowed after the first quarter grade of a class has been posted to a report card. Level changes in the same course (for example, Advanced to Regents level) follow the same guidance as dropping a course.

Please note, course changes will not be made for reason of teacher selection.

COURSE CREDIT: Course credit is determined by the successful completion of course requirements within the required time frame. Units of credit toward high school graduation are recorded on report cards and transcripts. Transfer credit from other schools is awarded, subject to approval by the Principal.

CREDIT RECOVERY or REGENTS EXAMS:

Students who fail a Regents exam should see their counselor as soon as possible to make arrangement to prepare to re-take the exam. Students are encouraged to re-take a Regents exam multiple times to improve their performance. Only the highest score will appear on the transcript.

- If a student passes the course but fails the Regents exam, the student does not need to repeat the course, but will need to commit to a plan to prepare to re-take the exam, which may include an exam prep class in their schedule.
- If a student fails the course but passes the Regents exam, they will be expected to re-take the exam as part of repeating the course to improve their exam score. Only the highest score will appear on the transcript.

When a student repeats a course, both the original and new course grade will appear on the transcript.

SUMMER SCHOOL: **The decision to enroll and grant credit for summer school rests with the school, and students must be approved by their counselor to register.** Students will be considered for summer school based on their end of year grades and performance.

New Courses: Irondequoit High School does not recognize "new" summer school courses as the academic equivalent of courses in the regular program. Summer school is intended for courses that need to be repeated due to failure. **Students may not take "new" summer school courses to avoid taking required courses during the school year.** Students who are behind in graduation credits may request to take new courses in summer school to get back on track for graduation. Requests to take new courses in summer school will be reviewed on a case-by-case basis and must be approved by the principal. Students considering this option should discuss it with their counselor.

SUMMER EXAM PREP: Students who have failed a Regents exam may enroll in an exam preparation course prior to retaking the exam in August. Please consult with your counselor for more information.

INDEPENDENT STUDY: Students may pursue an Independent Study to enhance the study in a subject area or to pursue an area of interest that is not a current course offering. Students must find a teacher who is willing to sponsor the study, and they should be self-directed learners capable of designing and carrying out the goals established in cooperation with the sponsor teacher.

Students should consult with their counselor and sponsor teacher to develop goals, a timetable, and the amount of course credit, all of which should be specified in an Independent Study contract.

An Independent Study cannot be used to fulfill a core course required for graduation unless the student is in a credit program and is in jeopardy of not graduating on time. This requires the principal's approval.

AUDITING/PASS-FAIL OPTION: A student may audit or take a course pass/fail under the following guidelines:

- Teacher approval is required.
- Students are limited to one class per year on a pass/fail or audit basis.
- Students must have met all graduation requirements in the standards area to be eligible to audit or take a course pass/fail. Exceptions may be considered by the principal.
- Approval is subject to space being available in the class.
- Students can be dropped from the class at any time for truancy.
- Students are expected to complete the same homework, tests, projects, etc., that are required of credit-earning students in the course.
- Audits will appear on the student's transcript as an audit (AUD with no credit). Pass/fail will appear on the transcript as a "P" or "F," with elective credit earned.

PARTICIPATION IN GRADUATION: A student is eligible to participate in graduation if he/she has met all the graduation requirements for his/her cohort (including all credits, Physical Education, and all required exams). The principal reserves the right to grant appeals/exceptions to this practice, including situations that result from the timing of June state exams.

Participation in graduation is a privilege, and students must be in good standing academically and behaviorally. The principal has final authority on participation. Consult the student handbook for more information.

SENIOR CAPSTONE PROJECTS: As a requirement for graduation, all seniors are expected to complete several major projects in their English and Social Studies courses.

The Capstone synthesizes the critical thinking, literacy, writing, research, and presentation skills developed throughout a student's high school experience. It is a demonstration of mastery of the high school curriculum and college/career readiness. The requirements include:

Humanities Thesis (Humanities and AP English) - A year's worth of research and analysis culminates in a student presenting a class-long presentation. It is part lecture, part presentation, part activity, and/or part performance. This Humanities Thesis strives to answer the course essential question: "What does it mean to be human?". Students will select topics, perform extensive research, and present ideas to the class in a relevant and engaging fashion. Through this rigorous assessment, students will showcase research and presentation skills that they have been honing for many years. It serves as the final exam for Humanities, and many intermediate deadlines serve as quarter grades as well.

Public Policy Project (PIG and AP Government) - Economics and Government (AP and Regents level) students will complete a portfolio over the course of the semester, tackling questions such as "What does it mean to be an active and engaged citizen?", "Who has the greatest influence over the economy?" and "How would you balance the rights of the individual with the common good?". Throughout the semester students will delve into such questions and craft responses, which they will revisit and revise through their learning. This work will culminate in the participation in the Citizenship Conference in January. All portfolios will be turned in to their Government and/or Economics teacher prior to January conference. This will constitute the final project for both courses.

SEAL OF CIVIC READINESS

The New York State Seal of Civic Readiness is a new graduation seal for which IHS seniors are eligible. To earn this Seal, students will demonstrate how they have met the criteria for the Seal over the past four years through course credits, Regents credits, extracurricular endeavors, research projects, and community service, as well as a 12th grade Capstone Project, which is completed through Participation in Government and AP Government courses. In the Spring, students who wish to apply for the Seal will submit their materials to the Seal of Civic Readiness Committee, which, if awarded, will be added to the High School Diploma.



MINIMUM GRADUATION REQUIREMENTS

2023 – 2024

These are minimum diploma requirements, as set forth by the Board of Regents and the West Irondequoit Board of Education. Students are encouraged to challenge beyond the minimum standard.

Regents Diploma ****

REQUIRED COURSES

English	4
Social Studies	4
Math	3*
Science	3*
World Language	1**
Art/Music	1
Health	.5
Electives	3.5
Physical Education	2.0
TOTAL – 22 credits	

Regents Diploma with Advanced Designation

REQUIRED COURSES

English	4
Social Studies	4
Math	3*
Science	3*
World Language	3***
Art/Music	1
Health	.5
Electives	1.5
Physical Education	2.0
TOTAL – 22 credits	

REQUIRED REGENTS EXAMS (passing score of 65 or above)	REQUIRED REGENTS EXAMS (passing score of 65 or above)
English Language Arts	English Language Arts
Math Exam	Algebra 1, Geometry and Algebra 2
Global History	Global History
US History	US History
Science Exam	Two Science (Living Environment, 1 Physical Science)
	World Language *** ^

*	An integrated course in science/technology/engineering/math may be used as the third required unit of credit in either mathematics or science when the course is taught by a certified STEM teacher and it meets the commencement level of the NYS standards for Math, Science, and Technology. Courses that meet this requirement are noted in this catalog in the Technology Education section.
**	Students are required to earn one (1) credit in World Language by the end of their freshman year either by passing the Level I course and final exam in Grade 8 or the course in Grade 9.
***	Students may fulfill this requirement by earning 5 units of credit in Art, Music, Business, Technology or Career and Technical Education. All students are encouraged to complete at least three units of a World Language in high school.
^	State Regents exams are no longer offered in Languages. Students are required to pass the West Irondequoit Level III final exam to earn a Regents Diploma with Advanced Designation.
****	For a Regents diploma, the WICSD follows the NYS Guidance relative to the 4+1 Pathways option. See http://www.p12.nysed.gov/ciai/multiple-pathways/ for more information.

NCAA COURSES AVAILABLE AT IHS

If a student wants to play sports at a NCAA Division I or II school, they must be academically eligible. NCAA has certified the following courses towards eligibility at IHS.

The NCAA Eligibility Center calculates your core-course grade-point average based on the grades you earn in NCAA-approved core courses. D1 requires a minimum 2.3 GPA. D2 requires a minimum 2.2 GPA.

For more information please visit: <http://www.eligibilitycenter.org>

<p><u>English</u> Eng 09 Adv Eng 09 Rgt Eng 10 Adv Eng 10 Rgt Eng AP-Lang Eng 11 Rgt Eng AP-Lit Eng/Hum 12 Creative Writing Diverse Voices in Literature Journalism 21st Century A</p> 	<p><u>Social Studies</u> Glbl Hst 1 Glbl Hst 2 AP World History World History 1 Advanced US Hist/AP US Hist & Gvt Prt Gvt Sem Econ Econ/AP AP Economics – Macroeconomics Psychology Sociology Psych/AP AP Government & Politics History of Warfare</p> 
<p><u>Mathematics</u> Algebra 1 Adv Algebra 1 Geometry Geometry Adv Algebra 2 Algebra 2 Adv Calc AB AP Cal BC AP Stat AP Mth Analys Pre-Calc Adv Computer Science AP Computer Science AP Computer Science Principles Ds crt Mth Stat</p> 	<p><u>World Language</u> French 1, 2, 3, 4, 5A, AP German 1, 2, 3, 4, 5A, AP Italian 1, 2, 3, 4, 5A Latin 1, 2, 3, 4, 5A Spanish 1, 2, 3, 4, 5A, AP</p> 
<p><u>Science</u> Earth Science Regent Environmental Science Living Environment Regent Chemistry Rgt AP Physics 1 Phys C/AP Physics Rgt Biology/AP Chem AP Insights in Chemistry Optics</p> 	

STUDENT/COUNSELOR ASSIGNMENT 2022 – 2023

COUNSELOR	GRADE 9	GRADE 10	GRADE 11	GRADE 12
MR. MCDONALD	A-Coe	A-Cass	A-Con	A-Dar
MS. CALL	Col-Hec	Cast-Gold	Coo-Gon	De-H
MS. LARABY	Hei-Mit	Gon-Kir	Gra-La	I-Ma
MS. ZAHARIEV	Moo-Pag	Kor-Pan	Le-Ph	Mc-Sal
MS. RAYMO	Pai-Sca	Pap-She	Pi-St	San-Va
MS. BUSH	Sch-Z	Sil-Z	Su-Z	Ve-Z

8:1:1 Program: McDonald & Zahariev

Life Skills Program: Raymo

Consult: Call

Resource: Alpha by Grade

ELL: Bush

Exchange Students: Call

ICT (Blended): 9th – McDonald/Zahariev; 10th – Laraby; 11th – Laraby; 12th – Bush

ART OVERVIEW

“Art washes from the soul the dust of everyday life.” ~ Pablo Picasso

The Art Department offers a variety of courses designed to meet the interests of all students. To meet the minimum New York State requirement for art students must take 1 unit of study in fine arts (art, music, or *some technology* classes). To maintain a sequence in art students, need to complete **Studio in Fine Art** + 4½ other units of study in art. For a New York State Regents with Advanced Designation diploma with an art sequence you must also take **Portfolio in Art** as part of your senior art coursework.

LEARNING STANDARDS FOR THE ARTS

NYS Learning Standards for Visual Arts: <http://bit.ly/NYSArtsStandards>

Creating

- Generate and conceptualize artistic ideas and work
- Organize and develop artistic ideas and work
- Refine and complete artistic work

Performing/Presenting/Producing

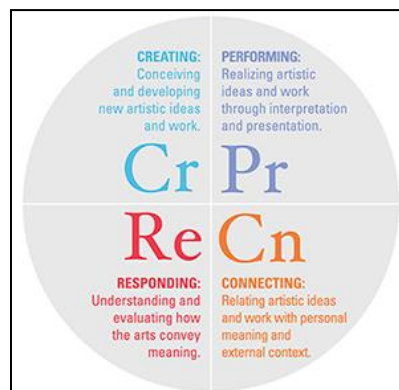
- Analyze, interpret, and select artistic work for presentation
- Develop and refine artistic work for presentation
- Convey meaning through the presentation of artistic work

Responding

- Perceive and analyze artistic work
- Interpret intent and meaning of artistic work
- Apply criteria to evaluate artistic work

Connecting

- Synthesize and relate knowledge and personal experiences to make art
- Relate artistic ideas and works with societal, cultural, and historical context to deepen understanding



ART DEPARTMENT

STUDIO IN FINE ARTS (60100)

Grade(s): 9-12

Duration/Credit: Semester - 1/2 Unit

Level: All

Prerequisite: None

A comprehensive foundation course designed to stimulate and encourage creative growth and to foster a healthy curiosity as students explore visual expression. Assignments help students to identify their own aesthetic tastes and learn to appreciate works of art. Hands-on activities cover a wide range of topics and materials including drawing, painting, sculpture, and digital media, as well as a strong focus on the Elements of Art and Principles of Design. This course meets part of the New York State requirement for art credit. Please note that Studio in Fine Arts is a prerequisite for Drawing and Painting. Evaluation is based on craftsmanship design, pursuit, invention, and expression.

STUDIO IN GRAPHIC DESIGN A (60150)

Grade(s): 9-12

Duration/Credit: Semester - 1/2 Unit

Level: All

Prerequisite: None

Studio in Graphic Design A is a computer art survey course that integrates visual art and digital media to introduce students to many of the skills needed for Graphic Design careers. It serves to give a background in the history, movements and expanding technologies needed in commercial art, along with an understanding of advertising and consumer perspectives. Students will create digital projects utilizing Adobe Illustrator to create designs and logos that demonstrate typography and layout skills. Most projects include client and artist scenarios providing real life experiences. Evaluations are based on craftsmanship, design, pursuit, invention, and expression.

STUDIO IN GRAPHIC DESIGN B (60151)

Grade(s): 9-12

Duration/Credit: Semester - 1/2 Unit

Level: Intermediate

Prerequisite: Studio in Graphic Design A

Studio in Graphic Design B is an intermediate level computer art course that integrates visual art and digital media to build and expand upon many of the skills needed for Graphic Design careers. It serves to give a deeper background in the history, movements and expanding technologies needed in commercial art, along with an understanding of advertising and consumer perspectives. Students will create multimedia projects utilizing the Adobe Creative Suite (Illustrator, Photoshop), to create poster and product designs that demonstrate efficient typography and layout skills. Most projects include client and artist scenarios providing real life experiences. Evaluations are based on craftsmanship, design, pursuit, invention, and expression.

DRAWING AND PAINTING A (60200)

Grade(s): 9-12

Duration/Credit: Semester - 1/2 Unit

Level: All

Prerequisite: Studio in Fine Art A

This course helps the beginning level student to develop the focus needed to improve basic drawing skills from direct observation and increase capacity to create conceptual work. Activities center around the process of "seeing" and applying learning in a variety of materials and techniques while also encouraging students to actively doodle to get more comfortable taking creative risks with authentic imagery. Students are evaluated on design, expression, craftsmanship, pursuit, and invention. All students are required to have a spiral bound sketchbook that will be evaluated on a regular basis.

DRAWING AND PAINTING B & C (60300/60400)

Grade(s): 10-12

Duration/Credit: Semester - 1/2 Unit Each

Level: Intermediate

Prerequisite: Prior Level Course(s)

An intermediate level course for students with established interest and demonstrated art skills. Studies come from reality, still life compositions and extended observation. A few high-quality pieces based on the processes, techniques and artists examined are evaluated by individual critiques. All students are required to have a spiral bound sketchbook that will be evaluated on a regular basis.

DRAWING AND PAINTING D (60500)

Grade(s): 11-12

Duration/Credit: Semester - 1/2 Unit

Level: Advanced

Prerequisite: Prior Level Course(s)

Students electing to take this course are usually pursuing an art sequence, seeking to develop their portfolio and/or considering college-level work in the arts. Instruction is oriented to the individual student and their personal growth, through sketchbook assignments, finished drawings and painting studies. Students will focus on a chosen area of thematic study to create a series of work to be included in a portfolio to demonstrate depth and breadth of visual inquiry. All students are required to have a spiral bound sketchbook that will be evaluated on a regular basis.



ART PORTFOLIO: COLLEGE (62500)

Grade: 12

Duration/Credit: Semester - 1/2 Unit

Level: Advanced

Prerequisite: 3-5 full units of Art, including Drawing and Painting A and B or approval of Coordinator and Instructor

This advanced level class has been designed for students who have taken at least 6-10 art classes (including Drawing and Painting A and B) to develop and present professional looking portfolios that showcase sophisticated use of technical and conceptual skills. Many of these students will be preparing to submit portfolios to colleges who may require them for admission as a major or minor in the visual arts. Students will need to include between 12-20 pieces of selected artwork in a variety of forms, including approximately 6-10 pieces of drawing from direct observation. Students will work intensively on refining drawing skills for half the semester to produce quite a few high-quality pieces. The remainder of the semester will be spent documenting the body of work in digital format, organizing, and arranging visual documentation, compiling a table of contents and writing a personal artist statement to accompany the visuals. Final evaluation will require a formal presentation of student portfolios where students discuss and defend their artwork. Please note that Portfolio is a prerequisite and companion to the AP Art and Design course (see course description).

AP ART AND DESIGN (60101)

Grade: 12

Duration/Credit: Semester – 1/2 Unit

Level: Advanced Placement

Prerequisite: Portfolio or approval of Coordinator and Instructor

Please contact your counselor and the Art Coordinator if you are interested in challenging the **AP Art and Design** (which can focus on drawing, design and/or photo). AP Art and Design students will need to determine whether they are challenging the **AP Drawing** or the **AP 2-D Art and Design** (Photo or Graphic Design based) exam. Either exam contains two sections. The Sustained Investigation (15 pieces) requires students to conduct an inquiry guided investigation of one big idea through art research, practice, experimentation, and revision. The Selected Works section (5 pieces) will demonstrate skillful synthesis of materials, processes, and ideas. Both sections of the portfolio will require written explanations about the work. There is an examination fee.

SCULPTURE AND MIXED MEDIA A (61300)

Grade(s): 9-12

Duration/Credit: Semester - 1/2 Unit

Level: All

Prerequisite: None

Students are taught the basic skills of 3-Dimensional design as they explore basic building methods including additive, subtractive modeling, and construction. Students will work with cardboard, stone carving, clay, and found/altered objects. The sculptures from other cultures will be explored, as well as theme development within visual communication. Evaluation is based on craftsmanship, design, pursuit, invention, and expression of works produced, as well as knowledge of processes taught.

SCULPTURE AND MIXED MEDIA B and C (61400/61500)

Grade(s): 9-12

Duration/Credit: Semester - 1/2 Unit Each

Level: Intermediate

Prerequisite: Prior Level Course(s)

Intermediate and advanced students will continue to explore sculpture methods in clay, plaster, cardboard, metals, and mixed media. This course offers an extension of techniques and processes learned in Sculpture and Mixed Media A. Evaluations are based on craftsmanship, invention, expression, design, and pursuit.

PHOTOGRAPHY A (60900)

Grade(s): 9-12

Duration/Credit: Semester - 1/2 Unit

Level: All

Prerequisite: None (Studio in Fine Arts OR Studio in Graphic Design suggested)

This is an entry-level photography course that covers a vast amount of technical information on how to use the D-SLR camera along with technology including Adobe Bridge & Photoshop programs to select and enhance imagery. Students will need to take pictures outside of class and learn how to manage hundreds of files in different file formats. Skills learned include manual shooting, composing, processing, manipulating, printing, and mounting their own digital photographs. Students will also learn various computer skills from uploading files, changing file formats, and using Adobe programs. Student work is evaluated according to mastery of technical skills as well as quality of pieces produced.

**NOTE:* Some digital cameras will be available for semester sign-out on the first day of class for students to use at home. Students will have access to D-SLR cameras in class for demos. Students will also need a folder for notes. Students who purchase their own camera can use a point and shoot or D-SLR camera. Smart phones are NOT acceptable.

PHOTOGRAPHY B* and C* (61000/61100)

Grade(s): 10-12

Duration/Credit: Semester - 1/2 Unit Each

Level: Intermediate

Prerequisite: Prior level Photography classes, Studio in Fine Arts OR Studio in Graphic Design suggested

After learning fundamental skills in Photography A, students work at an accelerated pace incorporating the study of studio lighting, special effects and more conceptual based projects; each adding to the abilities to create sophisticated, artistic photographs. Students will also look at varied photographic images throughout history, explore their meanings, and learn to critique works of art. Evaluations are based on quality of work and skills mastered.

**NOTE:* Some digital cameras will be available for semester sign-out on the first day of class for students to use at home. Students will have access to D-SLR cameras in class for demos. Students will also need a folder for notes.

Students who purchase their own camera can use a point and shoot or D-SLR camera. Smart phones are NOT acceptable.

INDEPENDENT STUDY/ INTERNSHIP IN ART

Grade(s): 11-12

Duration/Credit: Credit for Independent Study by contract (*available upon approval of instructor*)

Level: Advanced

Prerequisite: Prior demonstration of skill/interest

These are unique opportunities for **advanced**, independent research or work (under advisory from the Art department coordinator or teacher) in an area of your own interest. Typically, students are preparing a portfolio for submission to colleges and/or art schools. Contracts and proposals can vary, and evaluations are determined by student/teacher conferences. See your school counselor, the Art department coordinator, or the Career Connections coordinator (for internships).

BUSINESS DEPARTMENT

MARKETING STRAND	FINANCE STRAND	LAW STRAND	INFORMATION TECHNOLOGY STRAND
Virtual Business Management ½ unit * 3 College Credits	Career & Financial Management ½ unit 3 College Credits	Personal Law ½ unit	Entertainment Businesses ½ unit *
Sports Marketing ½ unit *	College Accounting 1 unit * 8 College Credits	College Business Law 1 unit * 3 College Credits	E-Commerce ½ unit
Entrepreneurship ½ unit *	Personal Investing ½ unit 3 College Credits		

DECA dues *



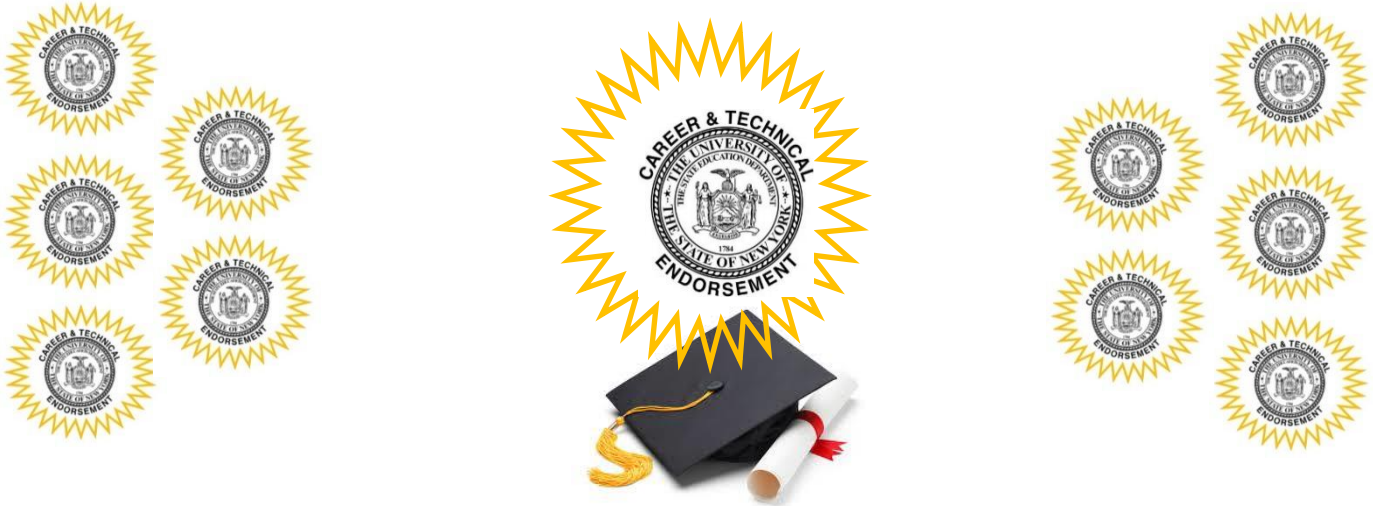
DECA and I.H.S. Business Education

DECA is a co-curricular student run organization that has many lessons embedded in a number of business courses at IHS. DECA prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality and management in high schools and colleges around the globe. The high school division includes 200,000 members in 3,500 schools and provides competitive and leadership experiences for students involved.

At Irondequoit High School, courses such as Sports Marketing, College Accounting, Virtual Business Management, Entrepreneurship and Entertainment Business connect with DECA in the classroom to make DECA a co-curricular activity. Visit www.deca.org for more information or talk to any Business teacher.



EARN A GOLD SEAL ON YOUR DIPLOMA AND GRADUATE WITH ADVANCED DISTINCTION



- ❖ MAKE YOURSELF MORE MARKETABLE TO COLLEGES & EMPLOYERS.
- ❖ LEARN ABOUT BUSINESS BEFORE DECLARING IT AS A MAJOR.

HOW TO EARN THE GOLD SEAL

Complete the form below with your counselor.



Required Courses:	Electives <i>*College Credit Available</i>	INDUSTRY STANDARD ASSESSMENT
<p>Career & Financial Mgmt* (1/2 cr)</p> <p>Virtual Business Mgmt* (1/2 cr)</p> <p>Sports Marketing (1/2 cr)</p> <p>Entrepreneurship (1/2 cr)</p> <p><i>2.0 Credits required from this section</i></p>	<p>College Accounting* (1 cr)</p> <p>College Business Law* (1 cr)</p> <p>Personal Law (1/2 cr)</p> <p>Personal Investing* (1/2 cr)</p> <p>E-Commerce (1/2 cr)</p>	<p>Written & Performance Assessment: Exploring Business & Marketing Test</p> <p>Local Assessment: (Resume/Job Interview completed in CFM Class)</p>
<p>Work Based Learning Requirement: Participated in and/or completed one OR more:</p> <ul style="list-style-type: none"> • Job Shadow • Career Co-op • Internship • Work Study <p>Employability Profile Completed</p>	<p>Entertainment Business (1/2 cr)</p> <p>Career Co-op (1/2 – 1 cr)</p> <p>Work Study (1/2 – 1 cr)</p> <p><i>Any combination of 3.0 credits from this section</i></p>	<p>5 Total Credits, Work-Based Learning Experience, Performance Assessment and Passing the Industry Standard Assessments are required to earn the CTE Endorsement</p>

CAREER & FINANCIAL MANAGEMENT (57400)

Grade(s): 10-12

Duration/Credit: Semester - 1/2 Unit

Level: All

Prerequisite: None

This course is designed to provide the necessary day-to-day skills that students will need when they are living on their own and working full-time. These skills and traits include the use of credit (loans/credit cards), checking/banking, completing a tax return, personal finances, taxes, health/dental/life/car insurance, benefits, retirement, and career planning. Students take an exam at the end of the course. If passed, students earn a financial literacy certificate. THREE COLLEGE CREDITS may be earned as an option for those students who wish to enroll in a dual-credit program through MCC (tuition required - savings of over \$2,500 compared to a private college). *Any student interested in obtaining a Business CTE Diploma with distinction needs to complete this course.*



SPORTS MARKETING (58600)

Grade(s): 9-12

Duration/Credit: Semester – 1/2

Unit

Level: All

Prerequisite: None

This course will have an emphasis on employing the basic marketing concepts through simulation, case studies and authentic experiences. The course will utilize a problem-solving approach using a computer simulation program that teaches students about all the decisions of running a sports organization. Students will also be charged with a real-life marketing problem by a local sports team that they will solve and present to the team. And finally, students will be given responsibility to promote a real sports event through all the marketing strategies they were taught. As a part of the course, students build their resumes through their involvement in the national student organization DECA by applying what they have learned. Dues are collected by October. *Any student interested in obtaining a Business CTE Diploma with distinction needs to complete this course.*



ENTERTAINMENT BUSINESSES (56505)

Grade(s): 9-12

Duration/Credit: Semester - 1/2

Unit

Level: All

Prerequisite: None

This course is designed to give students a basic understanding of how to solve business problems in many of the entertainment industries. Students will utilize computer programs to simulate business situations and make virtual decisions to enhance the classroom learning. The class will closely study the restaurant, hotel, and fashion industries. The course is designed to take students behind the scenes of these growing career fields. As a part of the course, students build their resumes and research a career field through their involvement in DECA by applying what they have learned. Dues are collected by October.



VIRTUAL BUSINESS MANAGEMENT (57000)

Grade(s): 9-12

Duration/Credit:

Semester – 1/2 Unit

Level: All

Prerequisite: None

An online business simulation program will be used in this class to explore all the concepts of business management today. Using a “hands on” retail simulation, students manage a convenience store, a sporting goods store, and an electronics store. Introductory topics such as financing, market research, promotion, merchandising, pricing, promotion, security, location, and human resources, will be explored. THREE COLLEGE CREDITS may be earned as an option for those students who wish to enroll in a dual-credit program through MCC. As part of the course, students build their resumes through their involvement in the national student organization DECA by applying what they have learned. Dues are collected by mid-October. *Any student interested in obtaining a Business CTE Diploma with distinction needs to complete this course.*



E-COMMERCE APPLICATIONS (56600)

Grade(s) 9 - 12

Duration/Credit: Semester – 1/2

Unit

Level: All

Prerequisite: None

E-commerce, F-commerce, and M-commerce are growing industries that small to large businesses need to understand to meet the online shopping needs of today's consumer. As consumers shop online and consume more online advertising, students are exposed to digital marketing techniques used to get consumers to buy more and higher prices. Students will study how businesses can successfully incorporate e-commerce strategies into their marketing plan. Students will research and plan hands on projects in web design, logo creation, online ad creation and placement, blogging, podcasting, and social media marketing. A focus of the class is using social media platforms to successfully market products and services to consumers and evaluate the metrics to improve their performance and success rate for a simulated online business.



PERSONAL INVESTING

(57402)

Grade(s): 10-12

Duration/Credit: Semester – 1/2

Unit

Level: All

Prerequisite: None

You will learn the "ins" and "outs" of investing in stocks, bonds, and mutual funds. You will simulate investing using current market data to manage a portfolio of stocks, bonds, and mutual funds. Stock market competitions are introduced to enrich the classroom lessons. Learn to use tax advantaged methods of investing, such as 401K plans and IRAs to help your money grow. Additional investment choices will be examined, including real estate, options, and collectibles. **THREE COLLEGE CREDITS** may be earned as an option for those students who wish to enroll in a dual-credit program through MCC (tuition required-savings of over \$2,500 compared to a private college).



ENTREPRENEURSHIP (58800)



Grade(s): 10-12

Duration/Credit: Semester – 1/2

Unit

Level: Advanced

Prerequisite: None

Designed for those interested in learning how to start and manage a small business. It begins by defining and explaining the nature of small business in today's international economy and entrepreneurs in the context of the free enterprise system. The topics include small business opportunities, legal forms of ownership, starting a new venture, sources of financing, developing marketing strategies, international business strategies and human resource management. Students will also learn the key components of a business plan, review case studies, and undertake a project. As a part of the course, students build their resumes through their involvement in DECA by applying what they have learned. Dues collected by October. Any student interested in obtaining a Business CTE Diploma with distinction needs to complete this course.



COLLEGE ACCOUNTING (56000)

Grade(s): 10-12

Duration/Credit: Full Year - 1

Unit

Level: Advanced

Prerequisite: None

Students will learn a wide variety of accounting principles including the accounting cycle, managerial accounting practices, and accounting procedures for sole proprietorships, partnerships, and corporations. Students are expected to keep up with independent practice assignments, participate in classroom discussions, and prepare accounting journals and ledgers. Computer applications will supplement unit topics when appropriate. Evaluation of this course will be based on quizzes, tests, homework, and a local final exam. As a part of the course, students build their resumes through their involvement in the national student organization DECA by applying what they have learned. Dues are collected by mid-October. **EIGHT COLLEGE CREDITS** may be earned as an option for those students who wish to enroll in a dual-credit program through MCC (tuition required – savings of over \$7,500 compared to private college).



COLLEGE BUSINESS LAW (55200)

Grade(s): 10-12

Duration/Credit: Full

Year - 1 Unit

Level: Advanced

Prerequisite: None



Studying Business Law enables students to understand their legal rights and responsibilities as applied to contractual obligations, sales agreements, financial matters, buying and selling real estate, and general consumer issues. Students will be introduced to the U.S. legal system and court procedures. Students will have exposure to community experts on wills, insurance, banking, and minors and contracts. Students will be expected to engage in readings, and class discussions. Evaluation will consist of unit/chapter exams, written class assignments and case studies, law-related projects, and a local final. As a part of the course, students build their resumes through their involvement in the national student organization DECA by applying what they have learned. Dues are collected by mid-October. Students may also enroll as a MCC student and earn an additional **THREE COLLEGE CREDITS** for Law 101 with no additional exam (tuition required).



PERSONAL LAW (57700)

Grade(s): 9-12

Duration/Credit: Semester – 1/2

Unit

Level: All

Prerequisite: None



Students interested in careers involving law enforcement, criminal justice, corrections, political science, or legal journalism should consider this elective. Legal issues covered include the court system, trial procedures, civil law, torts, crimes, juvenile justice, family law, domestic violence, drug laws, and incarceration. The course is team-taught by community experts who bring credibility to the topics explored. These experts include the Irondequoit Police Department, lawyers, judges, the Monroe County District Attorney's office, and juvenile justice authorities. Students actively engage in their own learning by competing in an in-class mock trial and orally debating legal issues. The program is highlighted by field trips to the Hall of Justice and/or the Irondequoit Police Department.



IRONDEQUOIT H.S.
BUSINESS DEPARTMENT



CAREER CONNECTIONS PROGRAM

The West Irondequoit Central School District offers an exciting program of experiential learning through the Career Connections Program. Recognizing that students should have the opportunity to experience the work today that they may be pursuing as a career tomorrow, the Career Connections Program links students with the real world of business and industry. Students are encouraged to stop into the Career Connections office (adjacent to the IHS Counseling Center) for more information. We offer work-based learning programs and career awareness opportunities. Follow us on Twitter @ihscareercenter.

CAREER AWARENESS OPTIONS

EXPLORER POSTS

Grade(s): 9-12

Duration/Credit: One semester or less – None

Prerequisite: None

Exploring is a co-ed program of the Otetiana Council that offers a hands-on approach to investigating a particular career or hobby.

There are more than 115 Explorer program options, and each one is unique in the way it uses the resources of its host organization. Exploring can often be the first step in identifying career and hobby interests.

Explorer programs are flexible enough to fit in with a student's other activities. Most meet twice a month, in the evening, for a portion of the school year. The experience the student gains can be extremely valuable in giving a jump start on career options. Check out exploring.org.

SHADOWING

Grade(s): 10-12

Duration/Credit: None

Prerequisite: None

Students who have a serious interest in a particular field will have an opportunity to spend 1/2 or one day with an individual actively engaged in a profession.

A student can gain tremendous insight into a career by following a professional's "typical day." Questions as to appropriate high school and college curriculums are frequently addressed.



WORK BASED LEARNING PROGRAMS

CO-OP WORK EXPERIENCE

Grade(s):

Duration/Credit: Semester/Full Year - .5 – 1.0

Required: Related Instruction

Co-Op is a real-life career specific paid or unpaid hands-on experience that focuses on employability skills as related to the student's program of study and career interest. A specific job training plan is developed for the student worker and quarterly performance evaluations are done by the job mentor. CO-OP students are required to attend the weekly seminar. Registered CO-OP New York State Work Based Learning Program.

PROFESSIONAL INTERNSHIPS

Grade(s): 9-12

Duration/Credit: Semester/Full Year - .5 – 1.0

Required: Application

Students make formal application to the Career Connections Coordinator to enter a non-paid, credit bearing, extended internship in a given career area. The student is partnered with a mentor and commits to approximately 75-150 hours of guided observation, training, and eventual participation in the chosen field of work. Students opting for an internship become keenly aware of the educational and personal requirements of a given career. They will rotate through a variety of learning experiences as their exploratory training continues. **Registered CEIP New York State Work-Based Learning Program.**

GENERAL WORK STUDY PROGRAM

Grade(s): 10-12

Duration/Credit: Semester/Full Year - .5 – 2.0

Required: Seminar

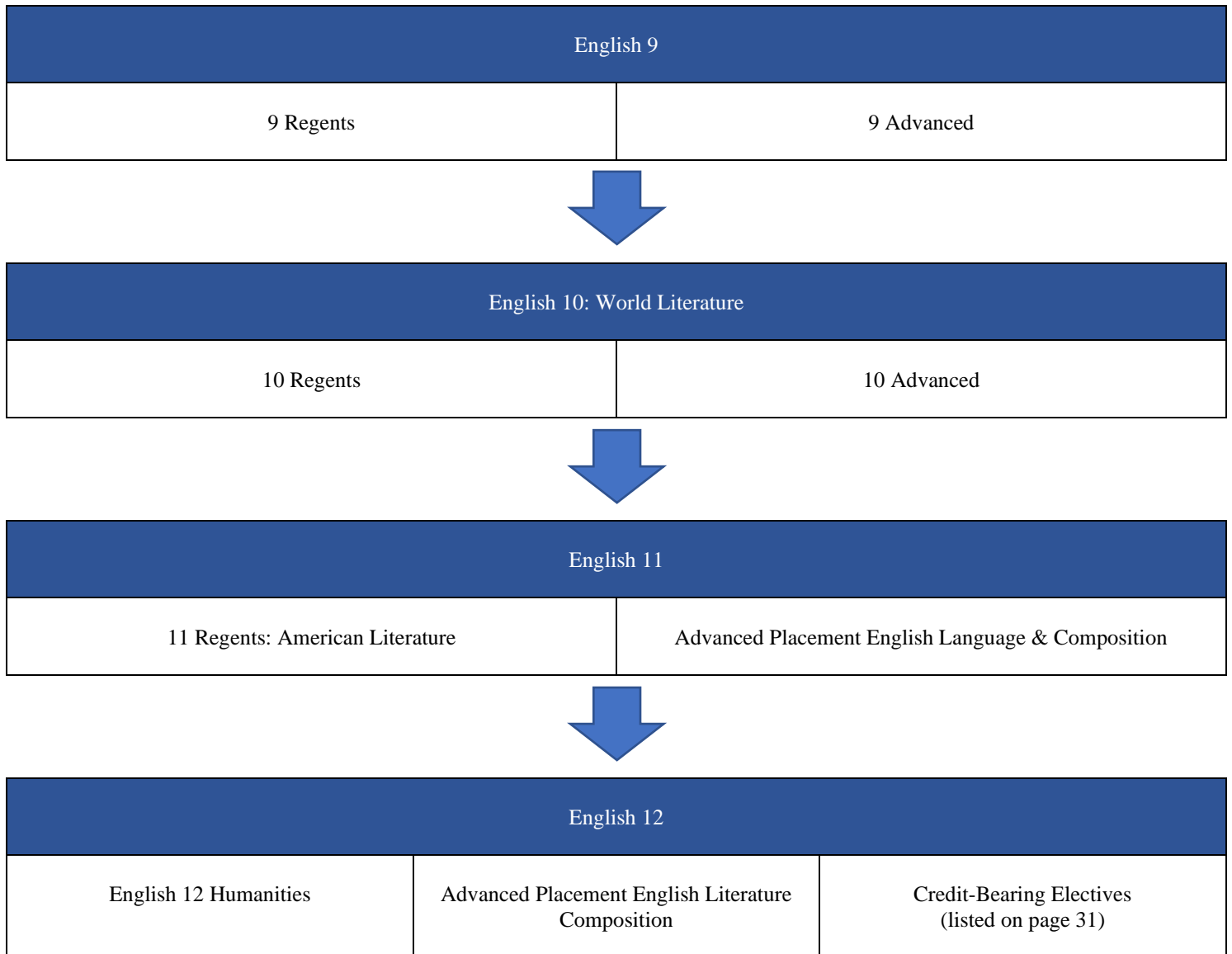
The Work Study Program offers students the opportunity for a paid, supervised, part-time work experience which earns school credit. The student works a designated number of hours weekly, and evaluated quarterly by the employer and coordinator, and can earn up to one full credit for 300 hours of employment. Students are required to attend a job-related weekly seminar to discuss career plans, and on the job experiences. Skill development, labor trends, legal issues and performance appraisals are also discussed. To qualify for the Work Study Program, students must be enrolled in five courses plus Physical Education. This is an excellent opportunity to gain valuable work experience and have real world performance appraisals incorporated into a student's permanent record. **Registered GEWEP New York State Work Based learning program.**

ENGLISH OVERVIEW

Our mission is to ignite a passion and desire for lifelong reading and writing by creating a welcoming and safe space for students to think critically and globally about themselves and the literature they read. Within this space, we will maintain high expectations for all students as we develop a collaborative community of learners who challenge ideas, problem-solve, and engage in discourse.

According to NYS Education Regulations, students must earn 4 credits in English as well as pass the Common Core English Regents Examination in order to fulfill graduation requirements in English. Throughout these 4 credits of English, students will be challenged to think critically by experiencing deep and thoughtful engagement with high-quality literary and informational texts that builds knowledge, enlarges experience, and broadens worldviews.

Course Sequence:



English Electives	Grade Levels	Duration & Credit
Introduction to Theatre	9-12	Year – 1 Unit
Journalism in the 21st Century	9-12	½ Year – ½ Unit
Public Speaking & Media	10-12	½ Year – ½ Unit
Script Writing	10-12	Year – ½ Unit
Actor’s Studio	11-12	Year – ½ Unit
Performance & Production	10-12	½ Year – ½ Unit

English Support Classes (non-credit bearing)	Grade Levels	Purpose & Level of Support
Reading Supplemental	9-12	Enrolled concurrently with the core English class, reading supplemental offers intensive support for those students with reading and writing challenges.
Department Center	9-12	Enrolled concurrently with the core English class, the department center offers support with reading and writing assignments as needed.

ENGLISH DEPARTMENT

The regular English program consists of four full-year courses. Each of these full-year courses requires reading and writing over the summer. At the end of the third year, students must take and pass the Common Core Regents Examination in English. English courses conclude with a final assessment, which may include a portfolio/personal anthology and an on-demand piece of writing. This assessment will be incorporated into the final course grade.

ENGLISH 9 ADV (00100)

Grade: 9

Duration/Credit: Year - 1 Unit

Level: Advanced

Prerequisite: English 8 and departmental recommendation

English 9A welcomes students capable of above average reading and writing skills. These students should easily understand the basics of grammar, spelling mechanics and sentence structure; be ready to challenge themselves to learn and practice more sophisticated sentence structure and vivid verbs; have the patience to examine their writing one sentence at a time and to revise papers numerous times; and be self-motivated readers who are willing to tackle difficult texts. Major works of literature may include *The Odyssey*, *Of Mice and Men*, *A Separate Peace*, *Romeo and Juliet*, *Great Expectations*, and *To Kill a Mockingbird*, in addition to independent reading done outside of class. Students will also read, analyze, and discuss poems, essays, short stories, non-fiction selections and film. Students will engage in many rigorous reading and writing opportunities, as well as work independently and collaboratively.

ENGLISH 9 RGT (00200)

Grade: 9

Duration/Credit: Year - 1 Unit

Prerequisite: English 8

The English 9 curriculum is structured using a combination of thematic and genre units. The themes may be woven through a variety of genres, such as short story, choice novels, poetry, non-fiction, and drama. Students will read and study works which may include *To Kill a Mockingbird*, *Romeo and Juliet*, *The Odyssey* and *Of Mice and Men*. In addition, students will choose books for literature circles from approved texts. Students write extensively and in various modes and will use revising and editing strategies. Emphasis is placed on helping students to develop strategies for substantiating a central argument through facts, details, and examples. Students are given experiences in group and individual oral presentations.

ENGLISH 10 ADV (00500)

Grade: 10

Duration/Credit: Year - 1 Unit

Level: Advanced

Prerequisite: English 9 and departmental recommendation

English 10A is an advanced course in literature and composition that continues the work begun in English 9A in critical reading and thoughtful writing. In literature, students will refine their ability to read with perception and critical understanding while developing increased awareness of literary styles and techniques. Major titles include such works as *The Alchemist*, *Animal Farm*, *Metamorphosis*, *Night*, *Oedipus/Antigone*, *Macbeth*, *Persepolis*, *LaVita é Bella* and *El Laber into del Fauno*. Poetry and non-fiction readings within each unit expand thematic analysis and establish relevancy. In composition, students will vary their writing style to suit different tasks and audiences, to support an argument, and to perform close textual analysis. Students will also continue to develop the ability to write with coherence and style in various modes, and to evaluate sources during research-based projects.

ENGLISH 10 RGT (00600)

Grade: 10

Duration/Credit: Year - 1 Unit

Prerequisite: English 9

World literature allows students to sample a host of literary achievements from a wide variety of sources and promotes their understanding of literature as a reflection of society and culture. Specifically, students will understand how certain literary works are universal, in that their themes transcend time, culture, and race; how different cultures use specific literary forms to convey ideas and how an author's use of language empowers him or her. Throughout the course, students write in expository, persuasive, and artistic modes, with emphasis on revising drafts, using complex sentences, and experimenting with more sophisticated patterns of organization. The argumentative essay, persuasive writing and character sketch are examples of key writing projects. Selected works of literature may include *Macbeth*, *Night*, *Animal Farm*, *Metamorphosis*, and *Persepolis*, film study in addition to non-fiction selections. Students may also be expected to read choice literature independently. Finally, students are exposed to a variety of Regents rehearsals and embedded tasks to better prepare them for the Regents Exam the following year.

**ADVANCED PLACEMENT ENGLISH:
LANGUAGE AND COMPOSITION (00900)**

Grade: 11

Duration/Credit: Year 1 – Unit

Level: Advanced Placement

Prerequisite: English 10 and departmental recommendation

Advanced Placement English, Language and Composition, is a seminar in composition and language study on the college level for highly motivated students whose skills in writing and analyzing language use are well above average. Study concentrates on American literature with an emphasis on rhetorical strategies in prose, especially non-fiction. Students will refine their ability to read prose perceptively and to express themselves in a variety of rhetorical modes. Major readings include selected essays, *The Adventures of Huckleberry Finn*, *The Great Gatsby*, *The Narrative of the Life and Times of Frederick Douglass*, *Walden Pond*, *The Things They Carried*, selected short stories, and several opportunities for outside reading of full-length fiction and non-fiction. Research skills are also one of the major components of the course. The course leads to the Advanced Placement Examination in Language and Composition (fee required), which all students must take. Students will also take the Comprehensive Regents Examination in English to satisfy graduation requirements for a Regents high school diploma.

**ADVANCED PLACEMENT ENGLISH:
LITERATURE AND COMPOSITION (01300)**

Grade: 12

Duration/Credit: Year - 1 Unit

Level: Advanced Placement

Prerequisite: English 11 and departmental recommendation

Advanced Placement English, Literature and Composition, is a seminar in composition and literature on the college level for highly motivated students whose skills in writing and literary analysis are well above average. Through close reading of selected works, students will refine their ability to read literature perceptively and to express themselves in precise, graceful, and well-organized prose. In addition to careful study of short stories, poems, novels, and plays, the course also includes exercises in literary discrimination and judgment and work in both expository and critical writing. Students will also complete a year-long author project that culminates in a literary research paper. Major readings typically include *Hamlet*, *Winesburg, Ohio*, *Wuthering Heights*, *Invisible Man*, *Gulliver's Travels*, *Their Eyes Were Watching God* and *The Awakening*.

ENGLISH 11 RGT (01000)

Grade: 11

Duration/Credit: Year - 1 Unit

Prerequisite: English 10

English 11 combines various elements of American literature: significant literary periods; the cultural, political, and artistic development of the nation; the ethnic and racial influences that contribute to the distinctly American “voice”; and the pursuit of the American dream as chronicled from early settlers to contemporary authors. Throughout this course, students will read, interpret, critique, and respond to assorted selections of American literature and non-fiction. The written assignments vary, with presenting and defending an argumentative viewpoint as a major focus. Additionally, students focus on refining their writing style, especially diction, sentence structure, and voice. Students also learn ease and confidence in addressing a group through public speaking, sharing of written work, and presentations. Extensive exposure to and rehearsals for the Regents exam are also integral components of the eleventh-grade experience as well as gathering and using specific information to support a thesis. Major literary works may include: *The Great Gatsby*, *The Things They Carried*, *Maggie: Girl of the Streets*, *The Scarlet Letter*, *The Crucible*, *Catcher in the Rye*, *Billy Budd*, and *The Narrative of the Life and Times of Frederick Douglass*.

ENGLISH 12: HUMANITIES (01405)

Grade: 12

Duration/Credit: Year - 1 Unit

Prerequisite: English 11

While studying trends in literature, visual arts, film, music and philosophy, students will hone universal 21st century skills such as persistence, metacognition, questioning and communicating clearly. The works studied are both classical and modern, ranging from Gregorian Chant to Bolcom in music; from Koiros to Pollock in art; from Dante to Shakespeare in literature; and selections from film. Composition instruction extends students’ skills in creative, informational, interpretative, persuasive, and analytical writing. Students conduct class discussion and explore their own thinking abilities. Students will also read several books of their own choosing to augment class discussion of literature. The year culminates with a humanities thesis in which students demonstrate their speaking, writing, and performing skills.

JOURNALISM 21st CENTURY A (02167)**Grade(s): 12 (9-11 with Supervisor Approval)****Duration/Credit: 1/2 Year - 1/2 Unit****Level: Mixed****Prerequisite: English 9, English 10, English 11/AP****Language (OR co-seated with an English course)**

Journalism is a half year course designed to ignite students' passion about current issues in society, while helping students to develop an understanding of the First Amendment and ethical issues associated with modern media. The engaging classroom environment will focus on critical thinking, creativity, and intellectual independence. In addition, students will develop multi-disciplinary skills such as communication, collaboration, and technology. This course is designed to teach students how to use rhetorical devices effectively in writing and to understand their audiences. It also requires students to rely on sources, pull information from those sources and use that information effectively in crafting written pieces. Topics/units include: What is news? How do stories become news? How is news structured? How do reporters capture news? What techniques do journalists use to make their stories come alive? Students will leave the course equipped with the 21st Century skills needed to be a productive and thoughtful member of society.

JOURNALISM 21st CENTURY B (02168)

An intermediate level journalism course, co-seats with Journalism A.

INTRODUCTION TO THEATRE (02120)**Grade(s): 9-12****Duration/Credit: Year - 1 Unit****Level: Mixed****Prerequisite: None**

This participatory course is intended to broaden a student's basic knowledge of theatre and the dramatic arts. Students will learn and practice basic elements of acting and technical theatre production. Students will be given performance and production opportunities involving voice and movement, improvisation, monologues, and scene work. The course also includes an overview of the history of theatre, famous dramatic personalities, types of theatre, and theatre criticism. Topics/Units include: basic stagecraft and ensemble work, introduction to voice and public speaking, scene study/analysis I & II, and performance, theatre history, introduction to the musical, production elements, production specialization, theatrical productions and culture. For success in this course students should have a creative spirit and a willingness to take creative risks.

PERFORMANCE AND PRODUCTION (02140)**Grade(s): 10-12****Duration/Credit: 1/2 Year - 1/2 Unit****Level: Mixed****Prerequisite: Successful completion of Introduction to Theatre course or proficiency on a placement assessment.**

Performance and Production is a half year course of study (1/2 unit of credit) with a more intensive examination of theatre arts and acting that builds upon the foundation obtained through Introduction to Theatre. Students will improve their acting talent and technical skills through repeat performances with a focus on growth in craft. The course will examine in depth the art of acting, including methods, dramatic structure, script analysis, and criticism. The course includes performances of "Kid's Project" Bunraku puppetry, scenes, improvisation activities, and culminates with a full-class production. Topics/Units include: Scene work, performances of specific styles and periods, theatre analysis through the use of film, Shakespeare, long-form improvisation performances, scriptwriting, and live performance critiques. For success in this course students should possess a love of the performing arts and a willingness to take artistic risks.

PUBLIC SPEAKING AND MEDIA (02141)**Grade(s): 10-12****Duration/Credit: 1/2 Year - 1/2 Unit****Level: Mixed****Prerequisite: None**

Public Speaking and Media is a half year course (1/2 unit of credit) with a focus on presentation skills and use of multimedia forms. Students will improve their skills through research, teaching, improvisation activities, presentations, film critiques, script writing, and film making. Topics/Units include: Elements of proper public speaking, media techniques and skills, short impromptu and prepared speeches, awareness of audience, scriptwriting, creating and presenting short multimedia pieces, and interdisciplinary connections between public speaking, media, and various careers.

SCRIPT WRITING (02160)

Grade(s): 10-12

Duration/Credit: Year - 1/2 Unit

Level: Mixed

Prerequisite: None

Script writing is a half-credit course offered on alternate days opposite Actor's Studio. It provides instruction and practice in the art of moving words from the page to the stage. It is a course which focuses upon process: the process of generating an idea, the process of expanding, restructuring, and revamping that idea, the process of refining that idea through an active exchange with actors and directors in rehearsal, and the process of evaluation through the presentation before an audience. During the second half of the year, the class will be engaged frequently with the Actor's Studio to facilitate the process.

There is no prerequisite for this course except a love of the word, a crying desire to have one's voice heard, and the daring to place it before the eyes of others.

ACTOR'S STUDIO

Grade(s): 11-12

Duration/Credit: Year – 1/2 Unit

Level: Mixed

Prerequisite: Introduction to Theatre (or appropriate equivalent)

Actor's Studio is a half-credit course scheduled on alternate days, opposite the Script Writing class. It is designed for the serious student of theatre who would like an in depth and highly creative immersion in the theatrical process. It will include advanced scene study, directing techniques and opportunities, an improvisational theatre company, and examine the creation of new material and the staging of those materials. This class will work closely with student script writers in the process of producing an evening of student one act plays. **Students must have taken Intro to Theatre (or the appropriate equivalent) to enroll or receive instructor approval.**

The creative challenges of this course will be significant, but so too will be the rewards.

CREATIVE WRITING (02122)

Grade(s): 12 (9-11 with Supervisor Approval)

Duration/Credits: 1/2 Year - 1/2 Unit

Level: Mixed

Pre-requisites: English 9, English 10, English 11/AP Language (OR co-seated with an English course)

Creative Writing provides students with opportunities to develop their literary talents by focusing on expression through writing as a form of art and personal expression. This course includes a study of varied forms of prose and poetry and gives students the experience to write creatively in different genres. In this course, the target of college and career readiness is developed with a standards-based approach and a focus on reading, writing, speaking, and listening. In addition, students will contribute to publications such as *Chickenscratch*. The goal is to become a community of writers who experiment, craft, revise and finalize work.

DIVERSE VOICES IN LITERATURE (02124)

Grade(s): 12 (9-11 with Supervisor Approval)

Duration/Credits: 1/2 Year - 1/2 Unit

Level: Mixed

Pre-requisites: English 9, English 10, English 11/AP Language (OR co-seated with an English course)

The goals of this course are to engage high school students in perspectives through literature that resemble the global and diverse community to which they belong and in which they will become active citizens. In this course, the target of college and career readiness is developed with a standards-based approach and a focus on reading, writing, speaking, and listening. This course is aimed at providing students with a historical approach to understanding literature written by diverse and marginalized authors and will afford students an opportunity to determine exploratory questions and content pieces through a collaborative process with the teacher. Writing emphasizes student analysis as outlined by facets of the West Irondequoit Essential Standards: narrative, expository, research-based, and argumentative. Students will also develop skills in critical thinking, effective discussion and listening methods, collaboration, and Language standards.

HEALTH DEPARTMENT

HEALTH AND PHYSICAL EDUCATION LEARNING STANDARDS

- Students will have the necessary knowledge and skills to establish and maintain physical fitness, participate in physical activity, and maintain personal health.
- Students will acquire the knowledge and ability necessary to create and maintain a safe and healthy environment.
- Students will understand and be able to manage their personal and community resources.

HEALTH EDUCATION* (84100)

Grade(s): 10-12

Duration/Credit: Semester - 1/2 Unit

Prerequisite: None

***Completion of 1/2 unit of Health Education is required for graduation.**

Students often feel overwhelmed with stress, worried about relationships or wished they knew what the impact of their decisions would likely be with regards to drugs and sex. Students also wonder how to communicate their ideas more clearly and need encouragement for self-improvement. To assist them in these and other areas is the goal of health education.

Everyday students must make personal life-style choices, which influence their wellness - physically, mentally, and socially. Without their health students cannot reach most of their life goals.

This course challenges students to update their health information, learn more about themselves, and practice skills which encourage positive health behaviors.* Discussions center on wellness, mental health issues, nutrition, relationships, sexuality, abstinence, reproduction, drugs and stress management to name a few of the areas of study. The course offers something for everyone who brings an open mind and positive attitude.

The students will focus on the skills of self-management, relationship management, communication, stress management, decision making, planning and goal setting, and advocacy.

HUMAN DEVELOPMENT (84200)

Grade(s): 10-12

Duration/Credit: Semester - 1/2 Unit

Prerequisite: Health Education

Students who enjoy working with kids or are considering a career involving children should enroll in Human Development. The course focuses on the developmental changes which occur during prenatal stages, early childhood years and adolescence.

This course will help you to see where you fit into the scheme of things as an adolescent. You will learn about yourself and ways of coping with various stressors and problems as well as how to deal effectively with those around you – peers, family members, younger children, and other adults. You will have opportunities to investigate and discuss issues facing teens today plus explore career possibilities and identify personal characteristics necessary for these careers.

As the semester progresses, pregnancy is examined from the perspective of the developing baby and its needs as well as the changes and demands on the future parents. The course will follow the child through birth and into early childhood focusing on the transitions that will occur and the parenting skills that will promote a happy and well-adjusted child. “Ready-Or-Not-Tots” (dolls that cry with various needs), “Baby Observation Day” and visits to the Sunshine Day Care allow for an interactive approach to further the understanding of some of the concepts covered in the course.



MATH OVERVIEW

The program of study in mathematics is designed to provide all students with the opportunities to acquire problem-solving and critical thinking skills requisite for functioning in an information-based society. Course offerings address important societal goals including the preparation of mathematically literate workers, lifelong learning, communication using symbolism and mathematical concepts, opportunity for all, and an informed electorate.

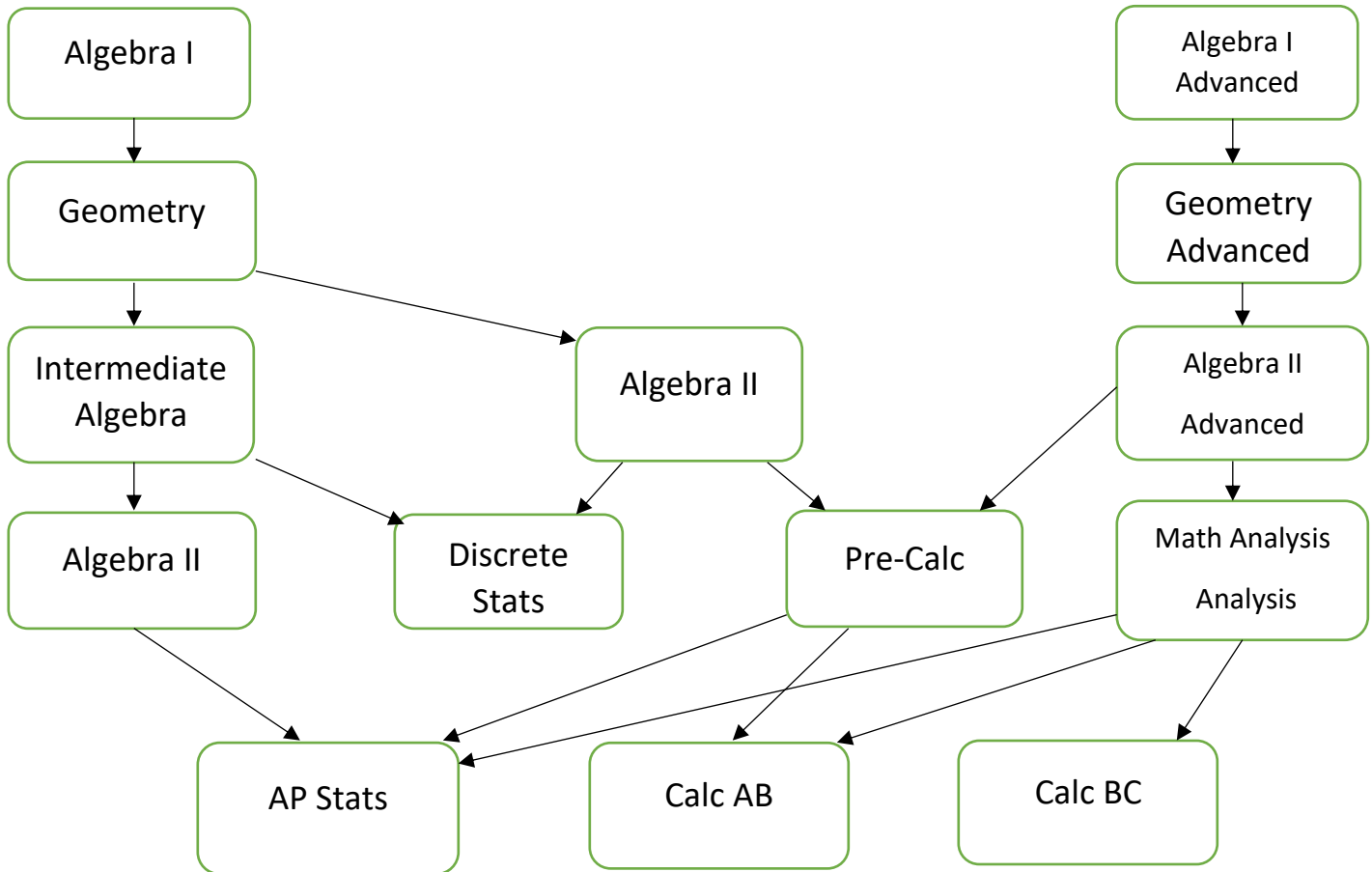
The departmental philosophy reflects the importance of mathematical literacy for all students so that they will learn to value mathematics. Students will be expected to obtain mastery in study at each level to become confident in their ability to do mathematics and become competent problem solvers before progressing to the next level of study. Those students wishing to challenge themselves further will be encouraged to do advanced level work.

Graduation Requirement Information: All students are required to earn 3 credits of Math course credit and to pass a NYS Regents exam to graduate. Students wishing to earn a Regents Diploma with Advanced Designation also need to successfully complete the Algebra, Geometry and Algebra 2 courses and Regent's examinations. Recognizing the importance of mathematics in our society, all students are encouraged to pursue four credits of mathematics.

The image contains a dense collection of handwritten mathematical formulas and derivations. Key elements include:

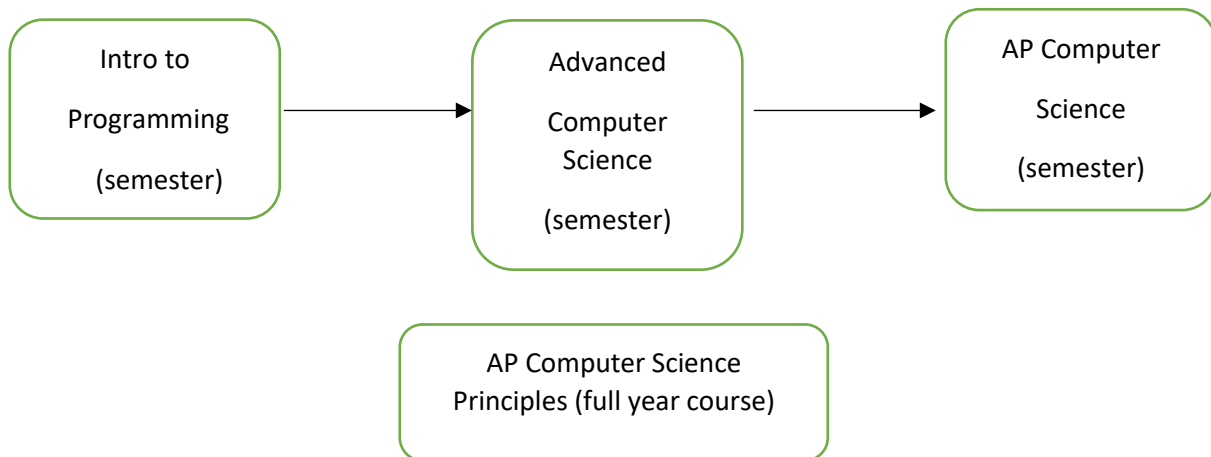
- Probability:** Formulas for binomial distribution $W_k = \binom{n}{k} p^k (1-p)^{n-k}$, normal distribution $S(\alpha, T) = \frac{2}{\pi} \int_0^{\pi} \frac{\sin \alpha t}{t} dt$, and cumulative distribution functions $P(\eta < y | \xi = x) = \sup_{r < y, y < e} P(\eta < y | \xi = x)$.
- Calculus:** Integrals such as $\int_{-\infty}^{\infty} e^{-\frac{at}{2}} dt$, $\int_{-\infty}^{\infty} f(x) \log_2 \frac{1}{f(x)} dx < \epsilon$, and $\int_{-\infty}^{\infty} e^{-\frac{at}{2}} dt = H(a)$.
- Complex Analysis:** Formulas involving $i^2 = -1$, $j^2 = -1$, and integrals like $\int_{-\infty}^{\infty} \frac{e^{-\frac{t^2}{2}}}{\sqrt{2\pi}} dt = 1$.
- Other:** Various other mathematical expressions including $\lim_{n \rightarrow \infty} \frac{1}{n} \ln \left(\frac{x}{n} \right) = \frac{1}{\sqrt{2\pi}} e^{-\frac{x^2}{2}}$ and $\lim_{n \rightarrow \infty} \frac{1}{n} \ln \left(\frac{x}{n} \right) = \frac{1}{\sqrt{2\pi}} e^{-\frac{x^2}{2}}$.

MATH OVERVIEW



NOTE: ALGEBRA II IS LISTED TWICE BUT IT IS THE SAME COURSE.

COMPUTER PROGRAMMING COURSES



MATH DEPARTMENT

ALGEBRA 1 (30100)

Grade: 9

Duration/Credit: Year - 1 Unit

Level: Regents

Prerequisite: None

This is the first course in the three-year Regents mathematics sequence. This course will include content from the NYS Common Core Standards for Mathematics including:

- Relationships between quantities and reasoning with equations and their graphs
- Statistics and probability
- Linear and Exponential Functions
- Polynomial and quadratic expressions, equations, and functions
- A synthesis of modeling with equations and functions

Throughout, an emphasis on reasoning and problem solving to address real-life connection/applications will be stressed, as well as developing the ability to effectively communicate results and their meaning. Instruction will be enhanced using technology, including the graphing calculator.

The Regents examination in June, "Algebra 1", is required for graduation.

GEOMETRY (30200)

Grade: 10

Duration/Credit: Year – 1 Unit

Level: Regents

Prerequisite: Algebra 1

This is the second course in the three-year Regents mathematics sequence. This course will include content from NYS Common Core Standards for Mathematics including:

- Congruence, proof, and constructions
- Similarity, proof, and trigonometry
- Extending to three dimensions
- Connecting algebra and geometry through coordinates
- Circles with and without coordinates

Students use the traditional tools of compass and straightedge as well as dynamic geometry software to assist in the investigations. Throughout the course algebra is embedded to main and expand algebraic skill for future mathematical study.

The Regents examination in June, "Geometry", is one of three mathematics examinations that must be passed to be eligible for an Advanced Regents Diploma.

ADVANCED GEOMETRY (30210)

Grade: 9

Duration/Credit: Year – 1 Unit

Level: Advanced

Prerequisite: Advanced Algebra 1 or departmental recommendation

Advanced Geometry is an enriched second course in the three-year advanced sequence in mathematics. This course will cover content from the NYS Common Core Standards for Mathematics. In addition, students will have the opportunity to make conjectures about geometric situations and prove in a variety of ways, both formal and informal. Congruence and similarity of triangles will be established using appropriate theorems. Transformations including rotations, reflections, translations, and glide relationships and coordinate geometry are used to establish and verify geometric situations. Properties of triangles, quadrilaterals, and circles receive particular attention. Students use the traditional tools of compass and straightedge as well as dynamic geometry software to assist in these investigations. Throughout the course algebra is embedded to maintain and expand algebraic skill for future mathematical study.

The Regents examination in June, "Geometry", is one of three mathematics examinations that must be passed to be eligible for an Advanced Regents Diploma.

ALGEBRA 2 (30370)

Grade: 11

Duration/Credit: Year - 1 Unit

Level: Regents

Prerequisite: Geometry

This is the third course in the three-year Regents mathematics sequence. This course will include content from the NYS Common Core Standards for Mathematics including:

- Polynomial, rational, and radical relationships
- Trigonometric functions
- Functions
- Inferences and conclusions from data

Throughout an emphasis on reasoning and problem solving to address real-life connections/applications will be stressed, as well as nurturing the ability to effectively communicate results.

The Regents examination in June, "Algebra 2" is one of three mathematics examinations that must be passed to be eligible for an Advanced Regents Diploma.

ADVANCED ALGEBRA 2 (30380)**Grade: 10****Duration/Credit: Year – 1 Unit****Level: Advanced****Prerequisite: Advanced Geometry or department recommendation**

Advanced Algebra 2 is the enriched third course in the three-year advanced mathematics sequence. This course will include content from the NYS Common Core Standards for Mathematics. In addition, this course will employ an intensive approach to the study of algebra, functions (especially Exponential, Logarithmic, and Trigonometric), probability and data analysis using pattern/property recognition, and a variety of multiple representations in both a visual/graphic and analytic style. Several additional topics from Pre-Calculus may also be explored. Throughout, an emphasis on reasoning and problem solving to address real-life connections/applications will be stressed, as well as nurturing the ability to effectively communicate/justify results. Successful completion of the course leads to Math Analysis during the next school year. This advanced sequence culminates with Advanced Placement Calculus BC during their senior year.

The Regents examination in June, “Algebra 2”, is one of three mathematics examinations that must be passed to be eligible for an Advanced Regents Diploma.

MATH ANALYSIS - Advanced Pre-Calc (32000)**Grade: 11****Duration/Credit: Year - 1 Unit****Level: Advanced****Prerequisite: Advanced Algebra 2 or department recommendation**

This is an intensive pre-calculus course for juniors intending to pursue Advanced Placement Calculus during their senior year. This course introduces students to extensive topics from advanced algebra, graphical transformations, analytic geometry, trigonometry, number theory, sequences and series, functions, theory of equations, polar coordinates, and an introduction to calculus.

PRE-CALCULUS (32100)**Grade: 12****Duration/Credit: Year - 1 Unit****Level: Regents****Prerequisite: Algebra 2**

This is a course designed to provide students with the prerequisites for the study of Calculus. Selected topics from Regents Math are extended and new topics are introduced. These topics can include advanced algebra, analytical geometry, and the elementary functions, including theory of equations, curve sketching, analytical geometry of straight-line and conic sections, polar coordinates, sequences and series, polynomial and rational functions. Major emphasis is placed on advanced algebra and trigonometry.

ADVANCED PLACEMENT MATH & ELECTIVES

AP STATISTICS (31900)

Grade(s): 11-12

Duration/Credit: Year - 1 Unit

Level: Advanced

Prerequisite: Algebra 2

The purpose of the Advanced Placement course in Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data: Observing patterns and departures from patterns; Planning a Study: Deciding what and how to measure; Anticipating Patterns: Producing models using probability and simulation; Statistical Inference; Confirming models. Students are required to write the Advanced Placement Examination in Statistics (fee required).

Note: Students who successfully complete the course and examination may receive credit and/or advanced placement for a one-semester introductory college statistics course.

AP COMPUTER SCIENCE PRINCIPLES (32600)

Grade(s): 9-12

Duration/Credit: Year - 1 Unit *

Prerequisite: Algebra or Advanced Algebra

This course is designed to be an entry level computer science course for students not majoring in computer science but interested in an introduction to the central ideas of computer science. Students will engage in activities that show how computing changes the world and impacts daily lives. Students will develop step-by-step written solutions to basic problems and will be required to implement these solutions on a computer using a programming language. The topics of study will include digital information, the internet, App design/programming, algorithms, data, and cybersecurity/global impacts.

This course will focus on providing time to complete the AP Computer Science Create Task as well as preparing for the written AP exam. The Computer Science Principles course can lead to AP credit through completion and submission of the Create Task and successful completion of the AP exam. The Create Task focuses specifically on the creation of a computer program, accompanied by a video and written responses.

Note: Students who successfully complete the course and examination may receive credit and/or advanced placement for a one-semester introductory college computer science course for non-majors.

AP CALCULUS AB (31500)

Grade: 12

Duration/Credit: Year – 1 Unit

Level: Advanced

Prerequisite: Math Analysis or Pre-Calculus

This course includes the study of topics in elementary functions as well as differential and integral calculus as outlined in the College Board Advanced Placement Calculus syllabus. Fundamental concepts including limits, derivatives, integrals, continuity, maxima/minima, and transcendental functions are developed intuitively with applications to finding areas and volumes, maximizing, and minimizing, curve sketching and rectilinear motion. Students are required to write the Advanced Placement Examination in Calculus AB (fee required). Students may be permitted to take this course concurrently with Pre-Calculus with the approval of the department supervisor. Study will include the use and programming of a graphing calculator.

Note: Students who successfully complete the course and the Advanced Placement Examination in Calculus AB may receive credit for one semester of college level calculus.

AP CALCULUS BC (31600)

Grade: 12

Duration/Credit: Year – 1 Unit

Level: Advanced

Prerequisite: Math Analysis

This is a full-year college-level course that includes the study of topics in elementary functions, differential and integral calculus as outlined in the College Board Advanced Placement Calculus syllabus. Fundamental concepts include limits, differentiation, related rates, theory of extrema, indefinite integrals, Riemann sums, areas & volumes, arc length, techniques of integration, L'Hopital's Rule, infinite series, improper integrals, parametrics, and differential equations. Students may be required to complete a summer problem set prior to the start of the course and will be required to write the Advanced Placement Examination in Calculus BC (fee required). Study will include the use and programming of a graphing calculator.

Note: Students who successfully complete the course and the Advanced Placement Examination in Calculus BC may receive credit for one or two semesters of college level calculus.

INTERMEDIATE ALGEBRA (30366)

Grade(s): 11-12

Duration/Credit: Year - 1 Unit

Level: All

Prerequisite: Geometry or successful completion of 2 years of high school level mathematics

Students enrolled in this course will uncover and explore parent functions including linear, quadratic, absolute value, and cubic functions. They solve systems of equations involving powers and roots, and probability and statistics. In addition to paper and pencil work, students use graphing calculators to explore mathematical concepts including financial applications where mathematics play a key role. This course concludes with a local final exam.

DISCRETE MATHEMATICS (33000)

Grade: 12

Duration/Credit: Semester - 1/2 Unit

Level: All

Prerequisite: Algebra 2 or successful completion of 3 years of high school level mathematics

Discrete Mathematics is the mathematics of decision making in real world settings. Topics studied have many applications in business, computers, and the physical and social sciences. Some of the topics studied include exponential growth and decay, solving systems of equations, graph theory and linear programming. Unifying themes in the course include modeling and the use of mathematics in analysis and decision making.

STATISTICS (33400)

Grade: 12

Duration/Credit: Semester - 1/2 Unit

Level: All

Prerequisite: Algebra 2 or successful completion of 3 years of high school level mathematics

Statistics is an introductory course in descriptive and inferential statistics with an emphasis on the practical application of these concepts to fields such as business, biology, the social sciences, and engineering. Topics studied include measures of central tendency and dispersion, random variables, probability and probability distributions, z-scores and the normal curve, confidence intervals, correlation, and regression.

INTRODUCTION TO PROGRAMMING (32200)

Grade(s): 10-12

Duration/Credit: Semester - 1/2 Unit

Level: All

Prerequisite: Completion of 2 years of high school-level mathematics

This course serves as an introduction to programming in JAVA. Topics studied include JAVA classes, syntax, data types, selection statements, strings, arrays, files, and iterative statements.

ADVANCED COMPUTER SCIENCE (32300)

Grade(s): 11-12

Duration/Credit: Semester (Fall) - 1/2 Unit

Level: All

Prerequisite: Introduction to Computer Programming

This course focuses on topics outlined in the College Board Advanced Placement syllabi for Computer Science A including object-oriented design, primitive data types, Boolean expressions/if statements, and iteration. In addition, students will begin work on the AP Computer Science A Labs.

Dual registration is strongly suggested with AP Computer Science.

AP COMPUTER SCIENCE (PROGRAMMING) (32700)

Grade(s): 11-12

Duration/Credit: Semester (Spring) - 1/2 Unit

Level: All

Prerequisite: Advanced Computer Science

This course focuses on topics outlined in the College Board Advanced Placement syllabi for Computer Science A including arrays, Array Lists, two-dimensional arrays, inheritance, and recursion. In addition, students will continue to work on the AP Computer Science A Labs. Students enrolled in this course are required to write the Advanced Placement Examination in Computer Science A (fee required).

Note: Students who successfully complete the course and examination may receive credit and/or advanced placement for a one-semester introductory college computer science course.

MUSIC OVERVIEW

The Music department offers a variety of courses designed to meet the interests of all Irondequoit students, through the band, orchestra (strings) and vocal programs. Students can meet the state graduation requirement in Fine Arts by earning 1 unit of study in a music performance course. They can also earn a Regents Diploma with Advanced Designation by completing a 5-credit sequence in music, which includes at least 4 credits of performance courses and 1 credit of AP Music Theory.

LEARNING STANDARDS FOR MUSIC

Create

- Generate and conceptualize artistic ideas and work
- Organize and develop artistic ideas and work
- Refine and complete artistic work

Perform

- Select, analyze, and interpret artistic work for presentation
- Develop and refine artistic techniques and work for presentation
- Convey meaning through the presentation of artistic work

Respond

- Perceive and analyze artistic work
- Interpret meaning of artistic work
- Apply criteria to evaluate artistic work

Connect

- Relate and synthesize knowledge and personal experiences to inspire and inform artistic work
- Investigate ways that artistic work is influenced by societal, cultural, and historical context and, in turn, how artistic ideas shape cultures past, present and future



MUSIC DEPARTMENT

CHORALE (72900)

Grade(s): 9-12

Duration/Credit: Year - 1 Unit

Level: Advanced

Prerequisite: Placement by assessment

This advanced ensemble sings at the highest possible level for high school students. Dedicated, hard-working musicians who want to sing a challenging variety of repertoire will feel a sense of accomplishment and satisfaction performing in this group.

The choir meets daily during the school day. In addition, each student participates in a sectional once per cycle on a rotating basis (a different period each 6-day cycle). During these rehearsals and sectionals, members learn and develop proper vocal technique while they prepare for performances. The evening concerts scheduled for the groups are required as part of the course. Evaluation is based on attendance, participation and performance in rehearsals, sectionals and concerts, and individual assessments. Independent practice outside of rehearsals is expected of all members.

Placement assessments take place in the spring. Chorale is a mixed choir (male and female – soprano, alto, tenor, and bass). Auditions are open to anyone in grades 9 – 11. However, previous choir experience is strongly recommended.

CHAMBER SINGERS/CHORISTERS (73000)

Grade(s): 9-12

Duration/Credit: Year - 1 Unit

Level: All

Prerequisite: Open enrollment

Chamber Singers and Choristers perform three, four and five-part music including the opportunity to sing in different voicings (mixed, male, and female). Members will perform a variety of moderate and challenging music in various styles ranging from pop to classical, and from all time periods. Correct vocal technique and music reading skills are stressed at daily rehearsal. Each student participates in a sectional once per cycle on a rotating basis (a different period each 6-day cycle). Members must perform at all scheduled concerts to receive credit, including evenings. Evaluation is based on attendance, participation and performance in rehearsals, sectionals and concerts.

Enrollment in these ensembles is open to any high school student. Both groups are mixed (male and female).

JAZZ CHOIR (73400)

Grade(s): 10-12

Duration/Credit: Year - 1/2 Unit

Level: All

Prerequisite: Placement by assessment only

Jazz Choir focuses its attention on Jazz music, history, style, vocal improvisation, and the theory that makes jazz unique. Independent practice outside of rehearsals is expected of all members.

Members must perform at all scheduled concerts. Individual progress, musicality, rehearsal techniques and concert attendance will be taken into consideration when grading. This group performs approximately 6-8 engagements per year.

Jazz Choir meets every other day for one period. Placement assessment is held after midterms and is open to anyone in grades 9-11. Previous choir experience is strongly recommended.

MUSIC THEORY AP (73600)

Grade(s): 10-12

Duration/Credit: Year - 1 Unit

Level: Advanced

Prerequisite: Music Reading Literacy

This course is designed to provide the serious music student with the opportunity to study the foundation, fundamentals, and construction of music. Students will investigate the principles of form, melodic structure, harmonic progressions, counterpoint, modulation, analysis, compositional techniques, and cadential relationships. In addition, students will develop the aural skills necessary to meet the needs of the Advanced Placement Exam.

Homework, quizzes, class participation, and the College Board Advanced Placement Exam are the basis of evaluation and grading procedures.

Students who successfully complete this course will earn a “music knowledge” credit, which in combination with “music performance” credits will yield a sequence in music. All students taking this course must take the Advanced Placement Examination in Music Theory (fee required).

**“Education in music is most sovereign
because more than anything else rhythm
and harmony find their way to the
innermost soul and take strongest hold
upon it.” -Plato**

SYMPHONIC ORCHESTRA (72605)

Grade(s): 9-12

Duration/Credit: Year - 1 Unit

Level: All

Prerequisite: Open enrollment

This ensemble is for students who play orchestral, stringed instruments. Repertoire is chosen from various historical periods, from Bach to Mozart to 20th Century compositions. In addition, students will study music skills as defined by the New York State Standards for Music. These include the study of history, theory, ear training and listening.

The Orchestra performs several evening concerts throughout the school year. Concert attendance is required as part of this course. Evaluation will be based on performance, effort and progress. In addition, students are required to attend once-per-cycle sectionals. These sectionals take place on a rotating basis (e.g. Week #1 – period 1, week # 2 – period 2, etc.).

Orchestra is an open enrollment course. This course meets for one (1) period every day. Students receive one (1) unit of credit.

PHILHARMONIC ORCHESTRA (72600)

Grade(s): 9-12

Duration/Credit: Year - 1 Unit

Level: Advanced

Prerequisite: Placement by assessment, previous orchestra experience

This advanced ensemble performs at the highest possible level for high school students. Dedicated, hard-working musicians who want to perform a challenging variety of repertoire will feel a sense of accomplishment and satisfaction performing in this group.

The orchestra meets daily during the school day. In addition, each student participates in a sectional once per cycle on a rotating basis (a different period each six-day cycle). During these rehearsals and sectionals, members learn and develop proper string technique while they prepare for performances. The evening concerts scheduled for the group are required as part of the course. Evaluation is based on attendance, participation and performance in rehearsals, sectionals, and concerts. Independent practice outside of rehearsal is expected of all members.



SYMPHONIC BAND (72800)

Grade(s): 9-12

Duration/Credit: Year - 1 Unit

Level: All

Prerequisite: Participation in a band or lesson group in or outside of the district

These ensembles, for wind and percussion players, are designed to provide the advancing student musician the opportunity to heighten their performance abilities while becoming exposed to more difficult levels of music. Musical styles will include overtures, marches, popular and contemporary music, plus selections from the more traditional band repertoire.

Symphonic Band will present several evening concerts at school throughout the year, as well as community performances. Concert attendance is required as part of this course. Evaluation will be based on performance, effort, and progress. In addition, attendance at once-a-week sectionals is part of this course. These sectionals take place on a rotating basis (e.g. week #1 - period 1, week # 2 - period 3, etc.). Band rehearsals and sectionals will provide introductory lessons in music history, music theory and ear training.

WIND ENSEMBLE (72700)

Grade(s): 9-12

Duration/Credit: Year - 1 Unit

Level: Advanced

Prerequisite: Junior and/or Senior High band experience, placement assessment

This advanced group, with specific instrumentation, will yield pride and satisfaction for the dedicated and serious performer of woodwind, brass, and percussion instruments. Repertoire for this ensemble is based on the standard literature for band. The difficulty level of the music performed will require dedication and practice.

The Wind Ensemble presents several evening concerts throughout the year in addition to performing at the high school commencement exercises. Concert attendance is required as part of this course. Evaluation will be based on performance, effort, and progress. In addition, attendance at once-a-week sectionals is part of this course. These sectionals take place on a rotating basis (e.g., week # 1 - period 1, week # 2 - period 3, etc.).

Appointment to this musical ensemble is by placement assessment. The instrumentation for this ensemble includes piccolo, flutes, oboes, clarinets, saxophones, bassoons, trumpets, French horns, baritones, trombones, tubas, and percussionists.

JAZZ ENSEMBLE (73300)

Grade(s): 9-12

Duration/Credit: Year - 1/2 Unit

Level: All

Prerequisite: Placement assessment and concurrent membership in a performing ensemble

This ensemble is designed to provide the advanced student performer of saxophones, trumpets, trombones, drum set, bass, keyboard, and guitar the opportunity to perform jazz and contemporary literature.

The Jazz Ensemble will present several evening concerts throughout the year. Concert attendance is required as part of this course. Evaluation will be based on performance, effort, progress and improvisation.

Appointment to this musical ensemble is by placement assessment by the Jazz Ensemble director. The instrumentation for this ensemble includes alto saxophones, tenor saxophones, baritone saxophone, trombones, trumpets, keyboardist, guitarist, bassist, drummer, and percussionists.

The Jazz Ensemble meets for one period every other day.



PHYSICAL EDUCATION DEPARTMENT

HEALTH AND PHYSICAL EDUCATION LEARNING STANDARDS

- Students will have the necessary knowledge and skills to establish and maintain physical fitness, participate in physical activity, and maintain personal health.
- Students will acquire the knowledge and ability necessary to create and maintain a safe and healthy environment.
- Students will understand and be able to manage their personal and community resources.

9th and 10th PHYSICAL EDUCATION

Grade(s): 9-10

**Duration/Credit: Year - .25 credit/semester
(.5 credit/year)**

Level: All

Prerequisite: None

The emphasis of this program is to develop lead-up skills to enhance performance, gain knowledge of rules, strategies, and fitness concepts, and to expand students' appreciation of movement experiences in a variety of areas. Students are assessed on knowledge, interaction with others and performance of specific skills.

11th and 12th PHYSICAL EDUCATION

Grade(s): 11-12

**Duration/Credit: Year - .25 credit/semester
(.5 credit/year)**

Level: All

Prerequisite: None

At this level, students choose lifelong activities, which contribute to a healthy and energized lifestyle. Students will acquire an understanding and appreciation of movement activities. Students are assessed on knowledge, interaction with others and performance of specific skills.

UNIFIED PHYSICAL EDUCATION

Grade(s): 9-12

**Duration/Credit: .25 credit/semester
(.5 credit/year)**

Level: All

Prerequisite: None

This program is designed to meet the needs of students with intellectual and physical disabilities. All activities are adapted to meet the needs of our Unified PE students. This allows for a joint PE experience between PE students and their Peer Partners.

EQUIVALENT PROGRAM OPTION

Grade(s): 11-12

**Duration/Credit: .25 credit/semester
(.5 credit/year)**

Level: All

Prerequisite: See below

11th or 12th grade students who are current with their physical education credit and have met the requirements are eligible for this program. An interscholastic sport or an approved outside activity may qualify a student to opt out of physical education class for a quarter. No more than two quarters per year for scholastic sports and only one quarter per year for an outside activity.

**“True enjoyment comes from activity of the mind and
exercise of the body; the two are ever united.”**

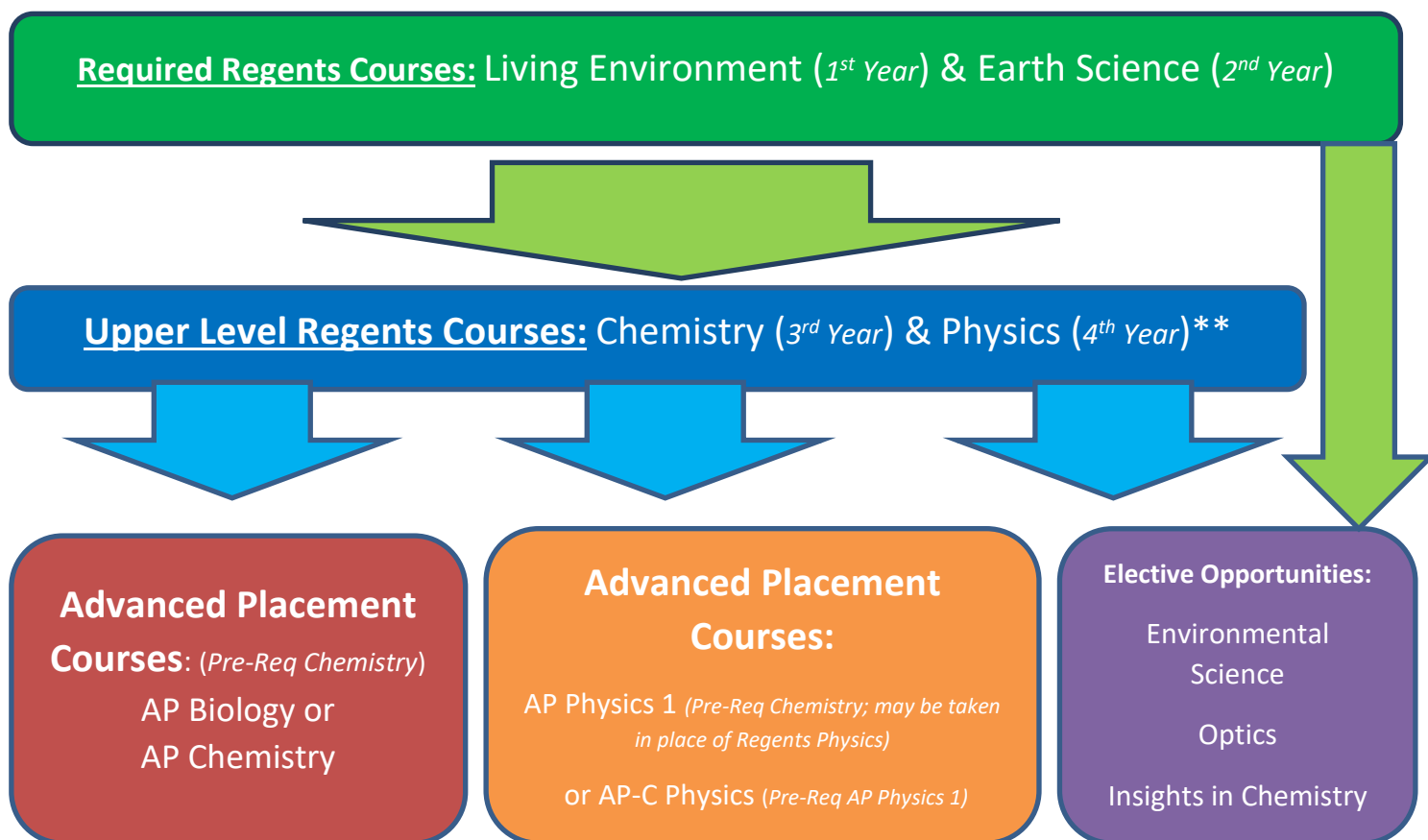
-Wilhelm Von Humboldt

SCIENCE OVERVIEW

Helpful Information:

- Incoming students must successfully complete **3 credits** in science to satisfy graduation requirements (1 Regents exam for a Regents Diploma, 2 Regents exams for a Regents Diploma with Advanced Designation).
- We recommend at least **4 credits of science** for *all* students, with experiences in all four core science disciplines (*Earth Science, Living Environment, Chemistry, and Physics*).
- Acceleration in 8th grade is *not* a requirement for participation in AP® science coursework.
- All Regents level courses require the successful completion of **1200 minutes of laboratory work** to sit for the Regents Exam. *The lab requirement must be met for students to be eligible for participation in summer tutorial or test prep programs.*
- All science courses culminate in a Regents or AP® examination with the following exceptions:
 - *Environmental Science, Optics (0.5)* and *Insights in Chemistry (0.5)* are local level courses with a comprehensive final exam and/or a portfolio assessment.
 - Participation in *Independent Research* could include competition in the New York State Science Congress. All participants are expected to present the results of their work at a public symposium at the conclusion of the school year.

A Typical Sequence Includes:



SCIENCE DEPARTMENT

LIVING ENVIRONMENT RGT (Biology) (40500)

Grade(s): 9 (10 - 12)

Duration/Credit: Year - 1 Unit

Prerequisite: None

In Living Environment, students will study the characteristics of living things to develop a better understanding of life. In the laboratory, students will investigate the techniques, equipment and information used by professional biologists. Areas of study will include: biochemistry, genetics and DNA technology, reproduction and development, evolution, wellness and ecology. The required exam in Living Environment includes a written Regents exam and the successful completion of four mandatory state labs. 1200 minutes of laboratory work is required.



EARTH SCIENCE RGT (40000)

Grade(s): 10 (9, 11, 12)

Duration/Credit: Year - 1 Unit

Prerequisite: None

Earth Science is an in-depth study of the interrelationships between Earth's systems. Three major topics will be studied: Astronomy, Meteorology and Geology. Class activities include a variety of demonstrations, laboratory exercises and projects. Students will develop and apply critical thinking and problem-solving skills using scientific models. The required exam in Earth Science includes a written Regents exam and a laboratory skills performance test. 1200 minutes of laboratory work is required.



CHEMISTRY RGT (40900)

Grade(s): 11 (10, 12)

Duration/Credit: Year - 1 Unit

Prerequisite: Successful completion of Living Environment and Algebra 1

Chemistry is an important course for students planning a career in science, engineering, science education, health-related fields, or any other area requiring knowledge of chemicals.

Students will spend at least one day per class cycle in the laboratory. Through the experiments conducted, students will be introduced to the chemical principles, which form the foundation of this field of science. Students will develop skill in making observations, analyzing data, drawing conclusions. The focus of this course will be devoted to the study of these major areas: atomic theory, mole concepts, kinetic theory, atomic structure, chemical bonding, and principles of chemical reactions. The Regents examination in Chemistry is required. 1200 minutes of laboratory work is also required.



PHYSICS RGT (41300)

Grade(s): 11-12

Duration/Credit: Year - 1 Unit

Prerequisite: Successful completion of Living Environment and Algebra 1, successful completion of Algebra 2 (or concurrent enrollment)

This is a Physics course that follows state guidelines in content and achievement level. This college preparatory course is considered a prerequisite for most four-year college programs. Students will study problem solving techniques and participate in laboratory activities in mechanics, heat, electricity and magnetism, waves and optics, and modern physics. The skills and concepts developed will help prepare students for demands of our ever-growing technical society. It is a course that is enjoyed by all and is necessary for those who want a well-rounded science background. The Regents examination in Physics is required. 1200 minutes of laboratory work is also required.

ADVANCED PLACEMENT SCIENCE ELECTIVES

BIOLOGY AP (41500)

Grade(s): 11-12

Duration/Credit: Year - 1 Unit

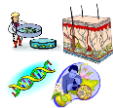
Prerequisite: Successful completion of Living Environment and Physical Setting/Chemistry

**For students pursuing careers in the health sciences, it is recommended that Physics also be part of your 4-year, comprehensive plan.*

Advanced Placement Biology is designed to prepare students for a career in any science field. This course will challenge students to attain a depth of understanding of biology based on the Four Big Ideas of: Evolution, Cellular Processes (including energy production and usage as well as communication), Information Transfer (with a genetic focus), and Interactions at the molecular, cellular, organismal, and ecosystem levels. Advanced Placement Biology is also designed to be the equivalent of the introductory biology course usually taken during the first year of college. Students interested in examining the facts, principles and processes of modern biology while receiving college credit, should enroll in Biology AP.

AP Biology requires completion of a multi-part summer assignment involving text-based and hands-on investigations. Additional details will be provided by the instructor within a brief summer meeting at the end of the current school year.

All students taking this course must take the Advanced Placement Examination in Biology (fee required).



AP PHYSICS 1 (41100)

Grade(s): 11-12

Duration/Credit: Year - 1 Unit

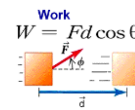
Prerequisite: Successful completion of Physical Setting Earth Science, Living Environment, Physical Setting Chemistry and Geometry, Algebra 2

College Credit: MCC Dual Enrollment

This course should be taken not only by students who are interested in the math and sciences but by those with a wide range of interests (from the technical to pre-med and liberal arts). All topics of physics are studied: mechanics, thermodynamics, electricity and magnetism, waves and optics, and modern physics. The course is designed to provide knowledge of basic physics and the ability to interpret and apply the knowledge both qualitatively and quantitatively. While taking this course in high school, students will experience the rigor of a college course in a friendly environment.

Because this is a college physics course, students may receive college credit based upon their performance on the Advanced Placement Examination. All students taking this course must take the Advanced Placement Examination in Physics 1 (fee required), and the NYS Regents Physics exam.

This course is also available for optional dual credit through MCC in the fall and spring semesters. Students will be provided registration information in the fall.



CHEMISTRY AP (41600)

Grade: 12

Duration/Credit: Year - 1 Unit

Prerequisite: Successful completion of Physical Setting/ Chemistry, as well as completion of or concurrent enrollment in Regents or AP-1 Physics

Chemistry AP is for students considering a career in science or engineering who want to receive college credit for a high school course. The Advanced Placement Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Students in this course will attain a depth of understanding of fundamentals and competence in dealing with chemical problems. Topics of study will focus in on 6 Big Ideas: Atomic Structure and Reactivity, Chemical Bonding and Phases of Matter, Chemical Reactions and Energy Changes, Chemical Kinetics, Thermodynamics, and Chemical Equilibrium. Class activities are supplemented with inquiry-based lessons and laboratory activities.

All students taking this course must take the Advanced Placement Examination in Chemistry (fee required).



PHYSICS C-AP (41200)

Grade: 12

Duration/Credit: Year - 1 Unit

Prerequisite: Successful completion of AP-1 Physics and Calculus AB or BC (concurrently)

This is a second college physics course designed for potential engineering and science majors in college. Mechanics, electricity, and magnetism are covered with an emphasis on problem solving. This course will prepare a student for a first-year college engineering course (with calculus).

AP Physics C requires completion of a short math skills review packet so that students can begin the year familiar with key skills required for success in the course, such as algebraic manipulation, geometry, trigonometry, and graph analysis.

All students taking this course must take two Advanced Placement examinations- AP Physics C: Mechanics and AP Physics C: Electricity and Magnetism. (fee required).

SCIENCE ELECTIVES

ENVIRONMENTAL SCIENCE (40700)

Grade(s): 11-12

Duration/Credit: Year – 1 Unit

Prerequisite: Successful completion of Living Environment and Earth Science or with permission from Science Supervisor

Environmental Science is a course designed to stimulate students to investigate current environmental issues through the lens of scientific inquiry. The topics explored in Environmental Science build upon the basic interactions between the physical environment and living organisms that are taught in our Earth Science and Living Environment courses. Students will also research environmental issues of local and global significance with an emphasis on applying scientific inquiry skills to the analysis of current environmental issues. Environmental Science is intended to serve the needs of students who desire to complete a three-year science sequence at IHS or who wish to extend their science experience beyond our Regents and Advanced Placement level course offerings. Students who study Environmental Science are encouraged to continue their program of study in science by registering for Regent's chemistry or physics as a fourth year of science. Students who enroll in Environmental Science will be expected to complete a portfolio of student work as part of their assessment in the course.

OPTICS (40410)

Grade(s): 11-12

Duration/Credit: Semester – 1/2 Unit

Prerequisite: Successful completion of Living Environment and Earth Science or with permission from Science Supervisor

***Can be combined with Insights in Chemistry as a full year, 1.0 credit in Physical Science**

College Credit: MCC Dual Enrollment

How is a hologram made? How does the FBI use optics to find criminals? What do optics and photonics have to do with the operation of my cell phone? Find answers to these questions and more within this physical science course designed to develop your understanding of light and its' applications to everyday life. This class will provide hands-on opportunities for students to learn about the behavior of light, how we measure light, and how light is used in technology and industry. Career options will be explored.

Optics/Insights in Chemistry is intended to serve the needs of students who desire to complete a three-year science sequence at IHS or who wish to extend their science experience beyond our Regents and Advanced Placement level course offerings. Students who study Optics/Insights in Chemistry are encouraged to continue their program of study in science by registering for Regent's chemistry or physics as a fourth year of science.

OPTICS: This course is also available for optional dual credit through MCC. Upon registration and successful completion of this half-year course, students will earn credit toward a 2-year associates degree or 1-year certificate in Optical Systems Technology at MCC.

INSIGHTS IN CHEMISTRY (40920)

Grade(s): 11-12

Duration/Credit: Semester – 1/2 Unit

Prerequisite: Successful completion of Living Environment and Earth Science or with permission from Science Supervisor

***Can be combined with Optics as a full year, 1.0 credit in Physical Science**

This is a hands-on course in which students will have the opportunity to explore concepts related to Chemistry, including but not limited to relevant historical and current events in the field, "real-world" applications, decision-making and safety, and the exploration of career opportunities.

Insights in Chemistry/Optics is intended to serve the needs of students who desire to complete a three-year science sequence at IHS or who wish to extend their science experience beyond our Regents and Advanced Placement level course offerings. Students who study Insights in Chemistry/Optics are encouraged to continue their program of study in science by registering for Regent's chemistry or physics as a fourth year of science.

INDEPENDENT SCIENCE RESEARCH PROJECT (40710)

Grade(s): 9-12

Duration/Credit: Year - 1 Unit OR Semester– 1/2 Unit

Prerequisite: Requires approval of science supervisor

This course is designed to offer an opportunity to individual students in grades 9-12 to design and conduct a scientific investigation in a field of interest, without replacing the normal course of study in the sciences. Students will work with a faculty advisor and a mentor from the scientific community. In addition, students are expected to write a research report and present their work to a forum of faculty, students, and the community.

SOCIAL STUDIES OVERVIEW

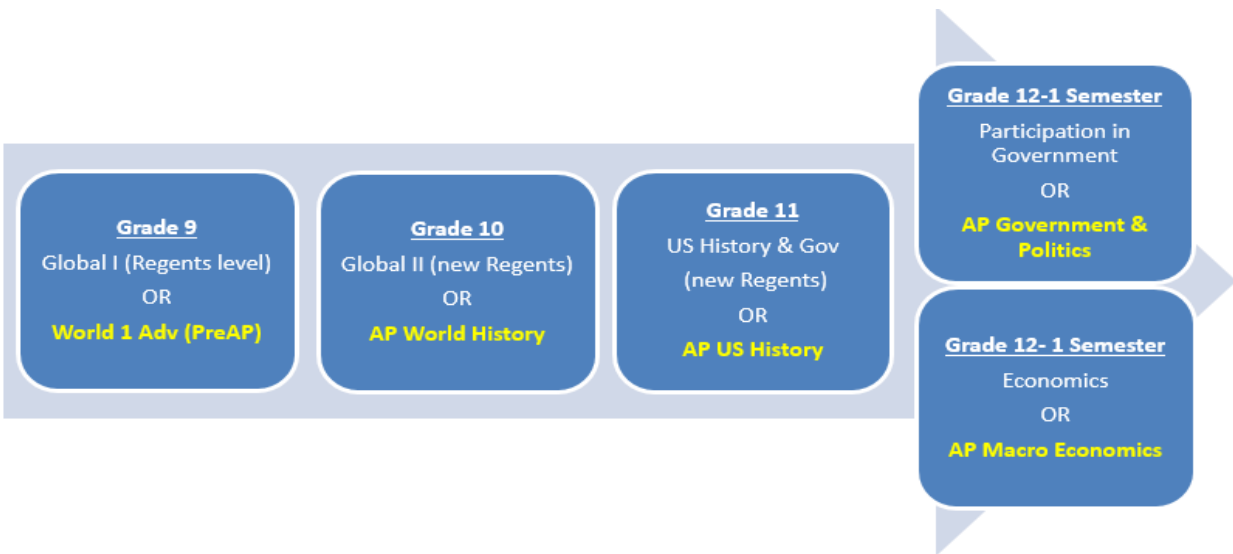
Department Mission: *Challenging students to question the world around them and appreciate diversity as they become engaged citizens in a global community.*

The New York State K-12 Social Studies Framework has enabled our curriculum to make the necessary shifts to ensure all students are learning essential 21st century knowledge and skills to construct a meaningful understanding of the world’s history and its impact on today. Standards can be found on Engage NY <https://www.engageny.org/resource/new-york-state-k-12-social-studies-framework>. The Standards are divided into two sections for high school Social Studies: the 9-12 Social Studies Practices, which identify the essential reasoning, reading, and content specific skills, and the content standards, which identify the conceptual understandings and content necessary for understanding today’s world within a historical context.

Graduation Requirement Information: Students are required to take and pass 5 Social Studies courses: Global History & Geography I, Global History & Geography II, US History & Government, Participation in Government (1 semester), and Economics (1 semester). Two of these courses have Regents Exams, Global History & Geography (10th Grade) and US History & Government (11th grade), passing at least one of which is required for graduation.

Department Requirements: All seniors will participate in a Citizenship Conference in January, and complete an accompanying portfolio targeting the essential question, “What does it mean to be an active and engaged citizen?”

Course Sequence Information:



Course Offerings – ELECTIVES	UNIT	GRADE LEVEL			
		9	10	11	12
Psychology	1/2		*	*	*
Sociology	1/2		*	*	*
AP European History	1			*	*
AP Psychology	1			*	*
History of Warfare	1/2			*	*

SOCIAL STUDIES DEPARTMENT

GLOBAL HISTORY I (20160)

Grade: 9

Duration/Credit: Year - 1 Unit

Level: Regents

Prerequisite: 8th grade Social Studies

This chronological study of global history examines the eras from ancient times through the Age of Nationalism as outlined in the NYS Social Studies Framework. This course focuses on analyzing enduring issues through history as students consider the economic, political, social, and geographic development of the world, beginning in Ancient Times through the Age of Exploration. Reading, writing, speaking, thinking, and study skills are emphasized. Additionally, students will also consider the often-marginalized voices in history as they craft their understanding of the historical narrative of the world.

Student progress is assessed in a variety of ways including performance tasks, essays, research projects, seminars, and tests as well as locally developed midterm and final exams which are modeled on the NYS Global History Regents (which is taken after the second year of the course and only assess 10th grade material). The final exam for this course is locally designed and administered.

WORLD HISTORY I ADV (20502)

Grade): 9

Duration/ Credit: Year - 1 Unit

Level: Advanced

Prerequisite: Grade 8 Social Studies and teacher recommendation

Summer Project: Yes

This course focuses on developing students' abilities to think conceptually about World History from approximately 8000 BCE to 1750 and apply historical thinking as they learn about the past. There are five themes of equal importance that provide areas of historical inquiry for investigation throughout the course. These five areas include environment, cultures, state-building, economic systems and social structures. World History encompasses the history of the five major geographical regions of the globe: Africa, the Americas, Asia, Europe and Oceania, with special focus on historical developments and processes that cross multiple regions.

The program prepares students for intermediate and advanced college courses by gradually moving towards making similar cognitive demands upon students to foster their abilities to think like historians, most notably to analyze evidence about the past and to create persuasive historical arguments.

All course summative assessments are locally developed and administered, including the Final Presentation in June.

GLOBAL HISTORY II (20500)

Grade: 10

Duration/Credit: Year - 1 Unit

Level: Regents

Prerequisite: 9th Grade Social Studies

Global History 2, the second part of the chronological Global History curriculum, examines the modern world history, starting from the Age of Revolutions to the issues facing the world today. Chronologically, these eras include such major events as the Industrial Revolution, imperialism and later decolonization, World War I and II, Cold War and subsequent global developments, globalization, and current events. Enduring themes in history, such as human rights, environmental issues, development of technology, and conflict and interdependence are also deeply considered throughout this course. There is a continued focus on skill development, critical thinking, cooperative skills, gathering, processing, and analyzing information to apply historical concepts and develop evidence-based arguments and interpretations. Additionally, students will also consider the often-marginalized voices in history as they craft their understanding of the historical narrative of the world.

Assessments for the course include performance tasks, such as a research paper, tests and seminars and a midterm exam. Students will take the Global History Regents Exam in June. Successful completion of the examination is required for graduation.

AP WORLD HISTORY (20501)

Grade: 10

Duration/ Credit: Year - 1 Unit

Level: Advanced

Prerequisite: Grade 9 Social Studies and teacher recommendation

Summer Project: Yes

College Credit: AP* (fee required)

Exam: AP and NYS Global History Regents

Examination

AP World History is a full year introductory college course, providing students with opportunities to develop the analytic skills and content knowledge necessary to think critically about enduring issues in history. Students will learn to think like historians, analyzing evidence from the past to create persuasive historical arguments. The course focuses on the time period of 1200 CE to present day. There are five themes of equal importance that are analyzed throughout the course: environment, cultures, state-building, economic systems and social structures. These themes of historical significance are considered within five major regions studied throughout the course: Africa, the Americas, Asia, Europe, and Oceania. Special focus is on developments and processes that cross multiple regions. Students will be expected to challenge college-level texts and clearly express evidence-based arguments in their writing.

The final examination will be a Regents Examination in Global History in June. Successful completion of this examination is required for graduation. Additionally, students are also expected to sit for the AP World History examination in May.

U.S. HISTORY & GOVERNMENT (20900)

Grade: 11

Duration/Credit: Year - 1 Unit

Level: Regents

Prerequisite: Global Studies 2 or equivalent

This course focuses on the history of our country and the development of the American democratic government. Throughout this course, students will tackle the central issues in American history, beginning in colonial America and stretching into the modern day. In addition to exploring familiar concepts such as separation of powers and the causes of industrialization, students will also consider the often-marginalized voices in history as they craft their understanding of the historical narrative of the United States.

The final examination will be a Regents Examination in United States History and Government. Successful completion of this examination is required for graduation.

U.S. HISTORY AP (20750)

Grade(s): 11-12

Duration/Credit: Year - 1 Unit

Level: Advanced

Prerequisite: Global History 1 & 2

Summer Project: YES

College Credit: AP* (fee required)

This course focuses on the history of our country and the development of our democratic government through seven major historical units, including Unit I: Constitutional Foundations for the United States Democratic Republic; Unit II: Industrialization of the United States; Unit III: The Progressive Movement: Responses to the Challenges Brought About By Industrialization and Urbanization; Unit IV: At Home and Abroad: Prosperity and Depression, 1917 - 1940; Unit V: The United States in an Age of Global Crisis: Responsibility and Cooperation; Unit VI: 1950 to Present. The theme of geography is taught throughout the year. The course includes a variety of assessment tools including writing tasks that develop historical thinking skills.

The final examination will be a Regents Examination in United States History and Government. Successful completion of this examination is required for graduation. Additionally, students are also expected to sit for the AP U.S. History examination in May.

ECONOMICS (21600)

Grade: 12

Duration/Credit: Semester - 1/2 Unit

Level: Regents

Prerequisite: United States History and Government

Economics is a required semester course emphasizing the basic principles, relationships, and institutions characteristic of the modern American economy. Included in the curriculum are essential concepts such as supply and demand, measurements of economic performance, monetary and fiscal policy, and the globalization. Special attention is directed to the consumer economics and international trade. Practical skills, simulations, case studies, data analysis, seminars, and performance assessments, designed to enhance the students understanding of concepts, are an integral part of the economics program.

AP ECONOMICS – MACROECONOMICS (21630)

Grade: 12

Duration/Credit: 1/2 Year- 1/2 Unit

Level: Advanced

Prerequisite: United States History and Government and Algebra 2/Trigonometry or equivalent

Summer Project: YES

College Credit: AP* (fee required)

Exam: AP Exam

This AP course will cover basic microeconomics concepts of scarcity, opportunity costs, comparative advantage and the tools of supply and demand. The course will also include macroeconomics topics of measurement of economic performance, national income, monetary and fiscal policy, inflation, and unemployment. In the course we will examine the role of government in correcting market failure, redistribution of income, and analyze issues of inflation and unemployment. Students will discuss public policy issues related to economic topics facing our nation.

Students will be required to one Advanced Placement Macroeconomics Examination in the Spring (fee required). College credit may be received based on the policy of the college and the grade earned on the exam. Students planning to attend college should consider this course to earn college credit while meeting graduation requirements in Social Studies. This course will meet the requirements for Economics through the completion of a required cumulative exam.

PARTICIPATION IN GOVERNMENT (21400)

Grade: 12

Duration/Credit: Semester - 1/2 Unit

Level: Regents

**Prerequisite: United States History &
Government**

Participation in Government examines the role of the citizen in a democracy. Students will explore, analyze, and evaluate current public policy and public policy issues that face the nation and the world including the role of political parties, media, and interest groups. Students are required to provide regular written expression of their ideas, analysis, evaluation, and solution to the topics of study throughout the course. This is a required semester course.

AP GOVERNMENT & POLITICS (21635)

Grade: 12

Duration/Credit: 1/2 year - 1/2 Unit

Level: Advanced

Prerequisite: United States History & Government R, or AP United States History

Summer Project: Yes

College Credit: AP* (Fee required)

AP Government and Politics is a college-level introduction to key political concepts, ideas, interactions, policies, institutions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Throughout the course, you will read and analyze U.S. foundational documents, with a specific focus on the Constitution, and key Supreme Court decisions, as you grapple with the questions central to understanding how liberty and justice exist in American society. You will find a unique and rigorous opportunity to immerse yourself in the analysis of issues and ideas that are pivotal in our democratic government and society. In this course, you will be expected to read and interpret data, develop evidence-based arguments, and engage in an applied civics or politics research-based project, providing you with the key conceptual understandings that will prepare you to be an active and engaged citizen.

Those who enroll will be required to sit for the AP Exam in May. This course will also meet the requirements for Participation in Government.

SOCIAL STUDIES ELECTIVES

SOCIOLOGY (21800)

Grade(s): 10-12

Duration/Credit: Semester - 1/2 Unit

Level: All

Prerequisite: None

Sociologists study the interactions between groups of people and the influence they have on each of us. In Sociology, students will focus on the cause of deviance in our society, the reasons for child abuse and the growing impact of cults on young people's lives through a study of research as well as through several relevant and hands-on experiences. Sociology will help students to look at the world around them through class activities and discussions, expert speakers, and the interesting course material itself.

Final assessment will consist of an examination and/or authentic assessment portfolio which will demonstrate the level of student overall achievement in Sociology.

HISTORY OF WARFARE (22102)

Grade(s): 11-12

Duration/ Credit: Semester– 1/2 Unit

Level: All

Prerequisite: None

Conflict is a significant occurrence throughout world history. In this course students will analyze the role of geography in causing conflict and how it influences the way warfare is conducted, as well as determine how technology has influenced military strategy with positive and negative impacts. Students will apply their understanding of conflicts in history in order to identify, analyze and synthesize how human rights violations occur across cultures and eras. Students will also determine and evaluate multiple historical turning points. Student evaluation is based upon class participation, homework completion, and projects.

Final assessment will consist of an examination and/or authentic assessment project that demonstrates student understanding of modern warfare.

***We are not makers of history.
We are made by history."***

-Martin Luther King, Jr.

PSYCHOLOGY (21700)

Grade(s): 10-12

Duration/Credit: Semester - 1/2 Unit

Level: All

Prerequisite: None

The purpose of the course is to give students an introductory overview of psychology. Content includes the study of each of the following topics in psychology: personality theory; abnormal psychology (clinical applications); developmental psychology, cognitive psychology, social psychology, physiology, and brain research. Evaluation is based on class participation, homework completion, project performance and a series of unit exams.

Final assessment will consist of an examination and/or authentic assessment project which will demonstrate the level of student overall achievement in Psychology.

PSYCHOLOGY AP (22100)

Grade(s): 11-12

Duration/Credit: Year - 1 Unit

Level: Advanced

Prerequisite: None

Summer Project: No

College Credit: AP* (*fee required*)

The Advanced Placement program in psychology is tailored to introduce students to the systematic and scientific study of human behavior and mental processes. Students learn about the psychological principles as well as the methods psychologists use in their practices. AP Psychology is a survey course emphasizing the history of psychology as a science, the different explanations of human behavior, and the modern research methods utilized by psychologists. Stress is given, though not limited to, the following areas of psychology: neuroscience, developmental psychology, sensation and perception, personality theory, cognition, motivation and emotion, abnormal psychology, and social psychology. Lastly, students will gain understanding of the importance of ethics in both scientific research and the practice of psychology.

College credit may be received based upon the policy of the college and the grade earned on the required Advanced Placement Examination in Psychology (fee required).

THE ART OF TEACHING (21710)**Grade(s): 11****Duration/Credit: Year - 1 Unit****Level: Advanced/Dual Credit****Summer Project: No****College Credit: MCC Dual Enrollment**

Curious about the education field? Wondering if teaching is the career for you? This is a yearlong, pre-collegiate course for high school juniors. As part of the course requirement, students will participate in field experience training. This course examines the basic principles of education, including classroom management, pedagogies of teaching, social-emotional learning, culturally responsive and sustaining education, and more! Throughout the class, students will engage in dialogue, practice creating lessons, consider various issues in education, and learn from people in the field.

AP EUROPEAN HISTORY**Grade(s): 11-12****Duration/Credits: Year****Level: Advanced****Pre-requisites: Social Studies 10****Summer Project: No****College Credit: AP* (*fee required*)****Exam: AP Exam**

The Advanced Placement program in European History is for students who want to deepen their knowledge and understanding of the role Europe has played in the world's social, political, and economic evolution. This college level course will dive deeply into the early historical periods of Europe and how the kingdoms emerged and transformed into empires, only to become seemingly endlessly embroiled in war. In this course, you will be expected to read and interpret sources and data to develop evidenced-based historical arguments. College credit may be received based upon the policy of the college and the grade earned on the required Advanced Placement Examination in European History (fee required). Students are expected to sit for the AP European exam in May.

TECHNOLOGY OVERVIEW



DID YOU KNOW?

- **Six different Technology Education classes can count toward a third unit of MATH or SCIENCE credit?**
- **You can receive COLLEGE credit for many Technology classes: DDP, POE, Architectural Engineering, Robotics & Automation and Electricity and Alternative Energy.**
- **You may choose to complete a TECHNOLOGY sequence for an Advanced Regents Diploma.**

See your Tech Teacher for details!

START HERE if you are interested in taking a TECHNOLOGY EDUCATION class:

AUTO Service
Land, Sea and Air Transportation Auto Service Modern Power Technology Consumer Auto Essentials

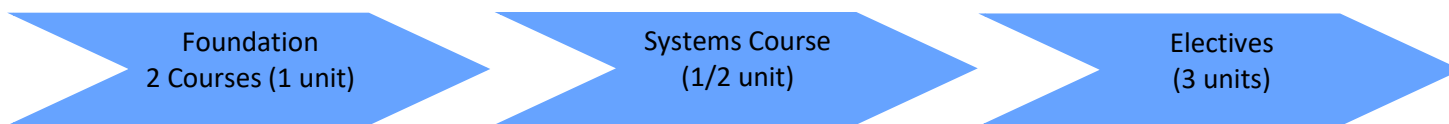
BUILDING TRADES
Furniture and Cabinet Making Modern Residential Structures Building Trades Electricity and Alternative Energy

DESIGN AND DRAWING
Design and Drawing for Production (DDP) Engineering Drawing
INFORMATION TECHNOLOGIES
Communication Systems Graphic Communications

Prior experience needed before taking the following courses:

- Advanced Auto Service – previous automotive course
- Advanced Building Trades – previous building trades course
- Architectural Engineering – DDP
- Principles of Engineering – DDP
- Robotics and Automation – DDP

TECHNOLOGY EDUCATION: 5 Unit Sequence



<ul style="list-style-type: none"> • Electricity and Alternative Energy (1/2 unit) • Auto Service (1/2 unit) • Modern Residential Structures (1/2 unit) • DDP (1 unit) (1/2 unit Foundation, 1/2 unit Elective) <p><i>In addition, Career and Financial Management is required (1/2 unit)</i></p>	<ul style="list-style-type: none"> • Furniture and Cabinet Making (1/2 unit) • Communication Systems (1/2 unit) • Land, Air and Sea (1/2 unit) <p><i>In addition, Career and Financial Management is required (1/2 unit)</i></p>	<ul style="list-style-type: none"> • Modern Power Tech (1/2 unit) • Consumer Auto Essentials (1/2 unit) • Advanced Auto Service (2 units) • Building Trades (1/2 unit) • Advanced Building Trades (2 units) • Engineering Drawing (1/2 unit) • Principles of Engineering (1 unit) • Robotics and Automation (1 unit) • Architectural Engineering (1 unit) <p><i>Any Foundation or Systems Course not completed previously.</i></p>
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TECHNOLOGY EDUCATION CLUBS

Construction Club in room 1000 = The Building Trades Shop

If you like working with wood, then the Construction Club might be for you. Currently the group is working on the long-term construction of a 14ft boat. Additionally, there are always miscellaneous wood projects that you could work on.

Torque Club in room 1013 = The Auto Shop

If you like working on cars, motorcycles, or boats, or if you just like tinkering with mechanical devices, this is the club for you. If you like working with your hands and don't mind getting dirty, come and see us in room 1013!

Makerspace in room 1010 = The Engineering Lab

A makerspace is a place where students can gather to create, invent, tinker, explore and discover using a variety of tools and materials. Please stop down to room 1010 every Thursday if you like to tinker. All students and staff are welcome - make your ideas a reality. Engineering focused.

AUTOMOTIVES

LAND, SEA and AIR TRANSPORTATION (82500)

Grade(s): 9-12

Duration/Credit: Semester - 1/2 Unit

Prerequisite: None

This course will provide the student with the opportunity to explore how boats float, why planes fly and how automobiles get their power. Students will construct models to demonstrate how these devices work. Evaluation is based on homework, tests and class activities with the emphasis on quality and quantity of hands-on work. This course is designed for all students interested in transportation devices.

AUTO SERVICES (82600) (*Basic Auto Repair*)

Grade(s): 9-12

Duration/Credit: Semester - 1/2 Unit

Prerequisite: None

This activity-based course is an introductory course for automotive service. Activities and lessons will center on understanding the major systems and components of the automobile. Live work will be accomplished on student, faculty, or shop cars. Evaluation is based on assignments, tests, worksheets, and hands-on work. Course emphasis will be placed giving the student many different auto repair scenarios and the proper methods, tool usage and economics of each repair.

MODERN POWER TECHNOLOGY (80300) (*Engines and Drivetrain*)

Duration/Credit: Semester - 1/2 Unit

Prerequisite: None - Land, Sea, and Air

Transportation and/or Auto Service are suggested

This course will focus on engine operation, performance, service, and alternative energy transportation. Within this course students will analyze and service the inner workings of internal combustion engines. Students will explore different modes of alternative energy transportation from electric to hydrogen and beyond. Additionally, modern drivetrain systems and their relation to various vehicle power sources will be explored.

ADVANCED AUTO SERVICE (80500) (*This course can count toward a 3rd unit of Science credit*)

Grade(s): 11-12

Duration/Credit: Year, double period - 2 Units

Prerequisite: Prior courses in Automotive

College Credit: MCC Dual Enrollment

This course is designed for the student with a greater than average interest in the automobile. Advanced Auto Service will involve 75% of the students' time in diagnosis and repair of automotive systems. Emphasis is placed on quality diagnosis and accurate repair. Parts ordering and communication with the customer are included in the daily activities. Work will be concentrated on vehicles with the focus of attention on computer-controlled systems. Students selecting this course are those that are considering employment in the field of automotive, the automotive industry or have a strong hobby interest in automobiles. Evaluation is based on assignments, tests and quality of work accomplished. Students can elect to take this course for college credit through MCC.

Students may take this course for 2 units of Technology credit or 1 unit of Technology and 1 unit of Science credit. Students should consult their counselor to discuss appropriate options.

CONSUMER AUTO ESSENTIALS (81905) (*Auto operation, maintenance & ownership*)

Grade(s): 10-12

Duration/Credit: Semester - 1/2 Unit

Prerequisite: None

This course is designed for the person who is or will be the owner of a car. This is a survival course for those who do not understand the operation of the automobile and wish to become a more knowledgeable consumer. Work will center around the repairs and maintenance of a vehicle. Class discussion will involve normal maintenance and repair that can be accomplished by the vehicle owner. Evaluation will involve worksheets, tests, and student involvement in lab activities. This course is for any student who wishes to know more about the operation and maintenance of a car.



BUILDING TRADES

FURNITURE AND CABINET MAKING (82700)

Grade(s): 9-12

Duration/Credit: Semester - 1/2 Unit

Prerequisite: None

Carpentry Systems will focus on furniture making and modern cabinetry making methods. Students will create a unique individual project of their own design, while learning traditional furniture making basic carpentry skills. Students with an artistic and creative flair are encouraged to take this course.

MODERN RESIDENTIAL STRUCTURES (82750)

Grade(s): 9-12

Duration/Credit: Semester - 1/2 Unit

Prerequisite: None

Modern Residential Structures will explore the initial planning, to final site completion of a residential dwelling. Students will design and construct models applying current building codes and design the parameters of their residential structure. Material selection for construction will highlight green technology and low environmental impact.

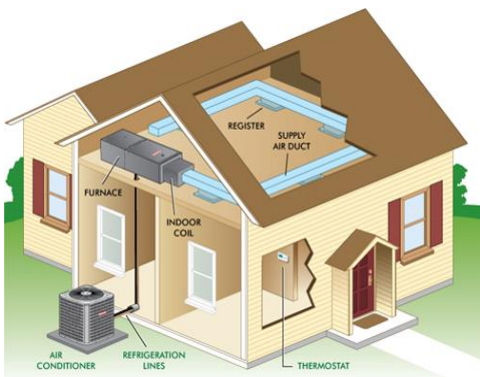
BUILDING TRADES (80700) (Plumbing, Heating and Ventilation)

Grade(s): 9-12

Duration/Credit: Semester - 1/2 Unit

Prerequisite: None

Building Trades will explore the finishing steps to a residential structure which includes insulation, drywall, tile, flooring and all related sub-systems. Students will develop an understanding of the use of green materials for a sustainable product and their part in modern construction. In addition, students will learn how to make provisions for materials to complete finish work in a structure.



ADVANCED BUILDING TRADES (80800) (This course can count toward a 3rd unit of Math credit)

Grade(s): 10-12

Duration/Credit: Year, double period - 2 Units

Prerequisite: Prior courses in Building Trades

This course is a study of how wood frame structures are built, remodeled, and maintained. Plenty of experience using the tools and equipment of the carpenter is gained through the actual building of a wood frame structure such as a gazebo or a work/storage shed, deck or patio.

Students are exposed to techniques, materials and methods that are in common practice today. The course could serve some students as a springboard to a career in carpentry. Students will be able to develop skills with the transit, tape measure, water level, power saws, drills, and a multitude of hand tools.

Students may take this course for 2 units of Technology credit or 1 unit of Technology and 1 unit of Math credit. See your counselor to discuss appropriate options.

ELECTRICITY & ALTERNATIVE ENERGY (81700)

Grade(s): 9-12

Duration/Credit: Semester - 1/2 Unit

Prerequisite: None

College Credit: MCC Dual Enrollment

Electricity and Alternative Energy will provide students with an introduction to electricity, electrical circuits and alternative forms of energy including wind, solar and hydro. Students will construct electrical circuits to power electrical equipment of various designs. Green technologies will be explored. Conservation concepts such as reducing our demand on electrical consumption will be a focus of students' work.

Students who pass this course have been pre-approved to receive college credit for ELT 130 from Monroe Community College. They must co-register and pay tuition to MCC at a reduced rate. Forms and information will be available at the beginning of the school year.



DESIGN, DRAWING and ENGINEERING

DESIGN AND DRAWING FOR PRODUCTION (DDP) (80600)

(This satisfies the Art/Music graduation requirements)

Grade(s): 9-12

Duration/Credit: Year - 1 Unit

Prerequisite: None

College Credit: MCC Dual Enrollment

This course is the starting point for all engineering students. By working through a variety of technical drawing problems and product design activities, students will master the output of 2-D drawings while creating 3-D solid models on the computer. Students will leave this class with a basic understanding of the manufactured world and the important communication role that designers and drafters have. All work is done on high performance computers using Autodesk Inventor software. Evaluation is based both on the quantity and quality of the drawings completed and the work is often self-paced. This course is a must for anyone interested in engineering, design, manufacturing, or other technical careers.

Students who pass this course have been pre-approved to receive college credit for MET 101 (first year drafting) from Monroe Community College. They must co-register and pay tuition to MCC at a reduced rate. Forms and information will be available at the beginning of the school year.

**NOTE: This course may be used to fulfill the entire graduation requirement in art/music. Students should consult their counselor to discuss appropriate options.*

At IHS, we are proud to offer a comprehensive Technology Education program. While we offer traditional Technology Education courses, we are also affiliated with Project Lead the Way (PLTW). We offer five PLTW courses: DDP, POE, Digital Electronics, Architectural Engineering and Robotics and Automation. PLTW has developed a sequence of courses which, "when combined with college preparatory mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college." Students may receive college credit for any of the PLTW classes offered and for several of our traditional Technology classes as well.

*For more information about PLTW, please visit **PLTW.org**.*

PRINCIPLES OF ENGINEERING (80900)

(This course can count toward a 3rd unit of Math or Science credit)

Grade(s): 10-12

Duration/Credit: Year - 1 Unit

Prerequisite: Drawing and Design for Production - math, science, and computer interest helpful

College Credit: RIT Dual Enrollment

So, you think you want to be an engineer? What better way than to take an engineering course in high school? This survey course examines many of the diverse opportunities available in this dynamic field. Students will research engineering schools and areas of specialty, to help better their college selection process. If you like to problem solve, tinker and experiment, then the hands-on format of this class is for you. Students will construct ballistic launchers, mouse trap powered race cars and energy efficient homes to name a few of the performance-based activities. If you need a math or science unit to graduate, then you are in the right place. Even better, how about going to college already having earned some credit? Students can choose to take this course for RIT credit to get a head start on their college careers. *Please note, this is an upper-level Project Lead the Way (PLTW) course.*

Students may take this course for 1 unit of Technology credit or 1 unit of Math or Science credit. Students should consult their counselor to discuss appropriate options.

ENGINEERING

ENGINEERING DRAWING (80601)

Grade(s): 10-12

Duration/Credit: Semester - 1/2 Unit

Prerequisite: Design and Drawing for Production (DDP)

An advanced drawing course aimed at students who were previously successful in DDP and will continue in engineering. Students will focus on the technical aspects of the drafting field such as dimensioned working drawings and technical illustrations. Students will learn skills in communicating with design teams and groups while also performing reverse engineering tasks. The class will be taught in the main engineering classroom, allowing the students to be exposed to 3-D printing, CNC machining and laser engraving. Inventor will continue to be the drawing software of choice.

ROBOTICS AND AUTOMATION (83100)

(This course can count toward a 3rd unit of Math credit)

Grade(s): 10-12

Duration/Credit: Year - 1 Unit

Prerequisite: Drawing and Design for Production

College Credit: RIT Dual Enrollment

This course applies principles of robotics and automation. The course builds on computer solid modeling skills developed in Design and Drawing for Production. Students will learn to use and program precision computer-controlled machines such as a CNC Mill, CNC Lathe, and CNC Robotic arms equipment to produce actual models of their three-dimensional designs. Students will develop an understanding of fundamental concepts used by engineers of robotics used in automated manufacturing systems. In this course, students will take a project all the way through the production process from design analysis and production. *This course meets Project Lead the Way Computer Integrated Manufacturing requirements.*

Students may take this course for 1 unit of Technology credit **or** 1 unit of Math credit. *Students should consult their counselor to discuss appropriate options.*

Students may choose to take this course for college credit from RIT.

ARCHITECTURAL ENGINEERING (81300)

(This course can count toward a 3rd unit of Math or Science credit)

Grade(s): 10-12

Duration/Credit: Year - 1 Unit

Prerequisite: Design and Drawing for Production

College Credit: RIT Dual Enrollment

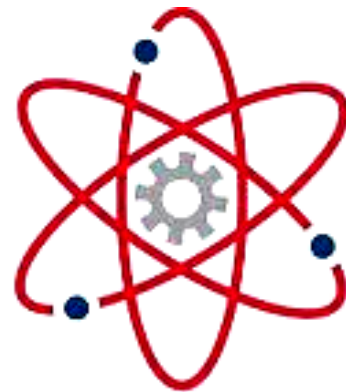
Architectural Engineering is the study of Civil Engineering and Architecture (CEA.) This course includes an introduction to many of the varied factors involved in building designs and construction. This includes building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry.

The major focus of Architectural Engineering course is to expose students to the design and construction of residential and commercial building projects. Students will work independently and in design teams as they explore and apply communication methods specific to the CEA profession. Teamwork is essential as students engage in activity-project-problem-based learning. Students will analyze, and electronically design structures and build physical models of residential and commercial facilities.

This course meets Project Lead the Way Civil Engineering and Architecture requirements.

*Students may take this course for 1 unit of Technology credit **or** 1 unit of Math **or** Science credit. Students should consult their counselor to discuss appropriate options.*

Students may choose to take this course for college credit from RIT.



PROJECT LEAD THE WAY

PLTW

INFORMATION TECHNOLOGIES

COMMUNICATION SYSTEMS (81800)

(This course can count toward an Arts credit towards graduation)

Grade(s): 9-12

Duration/Credit: Semester - 1/2 Unit

Prerequisite: None

This course is an activity-based overview of the systems used to communicate today. Using the principles of design, students are introduced to Adobe Premiere Elements 4, Photoshop CS4 and Dreamweaver to produce projects such as magazine ads, photo albums, t-shirt designs, a television commercial and short film as well as a public service announcement for radio and a webpage. Evaluation will be primarily based on the quality of student work and some written work. This class is designed for anyone interested in the graphic arts or media industries.

GRAPHIC COMMUNICATIONS (83250)

(This course can count toward an Arts credit for graduation)

Grade(s): 9-12

Duration/Credit: Semester - 1/2 Unit

Prerequisite: Communications Systems

This course is an exploration of the major media used for graphic design and communication in today's society. A major focus of this course will be the planning, production, and live broadcast of the IHS morning show. This daily event will provide students real world skills in television and studio production. Students will have the opportunity to work both in front of and behind the camera.

**NOTE: If you are considering a college or career path in Graphic Design or Media related professions, you will benefit by taking this course in conjunction with Graphic communications taught in the Technology Education Department and Studio in Graphic Design taught in the Art department.*

**NOTE: One unit of credit, earned by taking both Communication Systems and Graphic Communications may be used to fulfill graduation requirements in art/music. Students should consult their counselor to discuss appropriate options.*

REQUIRED FOR ANY TECHNOLOGY SEQUENCE

CAREER AND FINANCIAL MANAGEMENT (57400)

Grade(s): 10-12

Duration/Credit: Semester – 1/2 Unit

Prerequisite: None

College Credit: MCC Dual Enrollment

This course is designed to provide the necessary day-to-day skills that students will need when they are living on their own and working full-time. These skills and traits include the use of credit (loans/credit cards), checking/banking, completing a tax return, personal finances, taxes, health/dental/life/car insurance, benefits, retirement, and career planning. Students take an exam at the end of the course. If passed, a certificate is made provides evidence of financial literacy. THREE COLLEGE CREDITS may be earned as an option for those students who wish to enroll in dual-credit program through MCC (tuition required – savings of nearly \$1800 compared to a private college). Any student interested in obtaining a sequence in Business needs to successfully complete this course.

ALTERNATIVE OPTION

INDEPENDENT STUDY – TECHNOLOGY

Grade(s): 11-12

Duration/Credit: One quarter to a year – 1/4 Unit to 1 Unit

Prerequisite: Instructor's approval

This is an opportunity for students to do an in-depth technological student or to work in an area where the technology teacher may aid you in activities outside the formal curriculum. Independent Study may be taken in any one of the curriculum areas offered by the technology education department.



WORLD LANGUAGES OVERVIEW

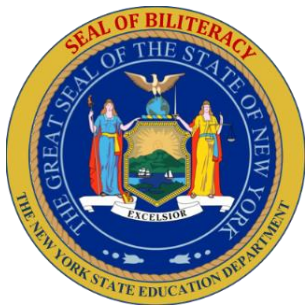
*French * German * Italian * Spanish*

SEQUENCES and LEVEL DESCRIPTIONS

FRENCH GERMAN ITALIAN SPANISH				
Each level upon completion = 1 credit				
Level 1	Level 2	Level 3	Level 4	Level 5 or AP
<ul style="list-style-type: none"> • Introductory level. • Basic language skills (reading, writing, listening, speaking) and vocabulary. • Cultural analysis and comparison. • Students must pass the Level 1 course and final to earn a Regents diploma. 	<ul style="list-style-type: none"> • Continued focus on development of basic skills with emphasis on writing, speaking, listening, reading. • More sophisticated methods of communication. • Regional exploration, cuisine, holidays. 	<ul style="list-style-type: none"> • Greater flexibility with language. • Deeper understanding of culture. • Students must pass West Irondequoit Level 3 final exam to earn a Regents diploma with Advanced Designation. 	<ul style="list-style-type: none"> • Increased sophistication of communication. • Real life applications. • Wide variety of texts. • Dual credit offered. 	<ul style="list-style-type: none"> • Highest levels of language offered. • Geared to prepare students for advanced and collegiate studies. • Opportunities for travel abroad. • Opportunity for Seal of Biliteracy. • Dual credit or AP offered.

THE NEW YORK STATE SEAL OF BILITERACY!

Show that you are **Literate in two languages, RIGHT ON YOUR DIPLOMA!**







The New York State Seal of Biliteracy is a graduation designation for students who have studied and performed strongly in a World Language course through Level 5. Successful candidates are recognized with a seal on their diplomas, indicating that they are literate in English and another language.

Attainment of the Seal of Biliteracy is a way for students to make themselves stand out and be more marketable to colleges, scholarships and employers!

Today, most colleges and universities require a *minimum* of two years of high school foreign language instruction for admission.

The West Irondequoit School District is one of the few districts of its size in the **NATION** to offer **4 languages and 1 non-traditional language EACH YEAR!**

WORLD LANGUAGE DEPARTMENT FLOW CHART

Dake	Dake	Dake	Dake
German 7 (Grade 7)	Spanish 7 (Grade 7)	Italian 7 (Grade 7)	French 7 (Grade 7)
German 1 (Grade 8)	Spanish 1 (Grade 8)	Italian 1 (Grade 8)	French 1 (Grade 8)
			
IHS	IHS	IHS	IHS
German 2 (Grade 9)	Spanish 2 (Grade 9)	Italian 2 (Grade 9)	French 2 (Grade 9)
German 3 (Grade 10)	Spanish 3 (Grade 10)	Italian 3 (Grade 10)	French 3 (Grade 10)
German 4 (Grade 11)	Spanish 4 (Grade 11)	Italian 4 (Grade 11)	French 4 (Grade 11)
German 5 or German AP	Spanish 5 or Spanish AP	Italian 5 (Grade 12)	French 5 (Grade 12)

World Language
1/2 Credit Elective
Changes Every Year

**EARN COLLEGE CREDIT THROUGH
MCC DUAL ENROLLMENT
1/3 THE COST OF MCC * TRANSFERRABLE**

DUAL ENROLLMENT COURSES IHS/MCC	
COURSE	Transferrable MCC Credits
French 4	3-5 credits
French 5	3-5 credits
German 5	3 credits
Italian 4	3 credits
Italian 5	3 credits
Spanish 4	3-5 credits
Spanish 5	3-5 credits

**EARN COLLEGE CREDIT THROUGH
ADVANCED PLACEMENT (AP)
SPANISH * GERMAN**



Unique 1/2 credit elective!

WORLD LANGUAGE: AMERICAN SIGN LANGUAGE

*Discover a non-traditional language and culture alongside your teacher!
Past courses include: Greek, Japanese, Arabic, Mandarin, Russian and even Swahili!*

WORLD LANGUAGES DEPARTMENT

In a world made small by sophisticated technology, we can no longer afford to ignore the way people of other countries think and live. The study of foreign language is the key to understanding others and living peacefully with them. In addition, the knowledge of another language is a positive asset for career preparation, especially when combined with a specialization in fields such as engineering, business, law, medicine, etc. On a purely individual level, there is great personal satisfaction in being able to converse with others in their native languages.

LEARNING STANDARDS

- Students will be able to use a language other than English for communication.
 - Students will develop cross-cultural skills and understanding.

MODERN LANGUAGE LEVEL 1

(French, German, Italian, Spanish)

Grade(s): 8-12

Duration/Credit: Year - 1 Unit

Level: All

Prerequisite: None

These courses are designed to provide students with an introduction to the particular language and culture, including the development of the skills basic to second language acquisition: listening/understanding, speaking, reading and writing. Cultural and historical factors will be examined in the context of the language learning experience. Communication will focus on a variety of topics centered around family, school, and everyday life. Evaluation will be based on quizzes, tests, individual/group projects, and homework participation. New York State no longer offers Regent's exams in foreign language. Successful completion of this level is required of all students for high school graduation.

MODERN LANGUAGE LEVEL 3

(French, German, Italian, Spanish)

Grade(s): 9-12

Duration/Credit: Year - 1 Unit

Level: All

Prerequisite: Level 2 or departmental recommendation

These courses are designed to provide students with an ever-greater flexibility in the usage of the foreign language and a wider familiarity with its culture. Communication will focus on a variety of topics designed to bring the students closer to fluency. Evaluation will be based on quizzes, tests, individual/group projects and homework participation. Regent's exams are no longer offered in foreign languages. Students are required to pass the West Irondequoit Level 3 final exam to earn a Regents diploma with Advanced Designation.

MODERN LANGUAGE LEVEL 2

(French, German, Italian, Spanish)

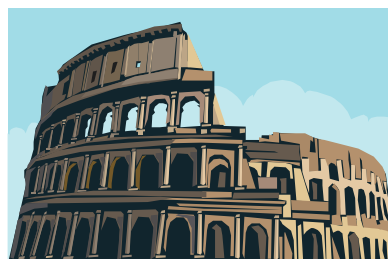
Grade(s): 9-12

Duration/Credit: Year - 1 Unit

Level: All

Prerequisite: Level 1 or departmental recommendation

These courses are designed to provide students with the second level of instruction in language and culture, including the continued development of the skills basic to second language acquisition: listening/understanding, speaking, reading, and writing. Cultural factors will be examined in the context of the language learning experience. Communication will focus on an ever-increasing variety of topics discussed in the present, past and future. Evaluation will be based on quizzes, tests, individual/group projects, homework participation and a local final exam.



MODERN LANGUAGE LEVEL 4

(French, German, Italian, Spanish)

Grade(s): 11-12

Duration/Credit: Year – 1 Unit

Level: Advanced

Prerequisite: Level 3 or departmental recommendation

College Credit: MCC Dual Enrollment (French, Spanish, Italian)

This course is designed for students continuing their study of language past the Level 3 requirement for a Regents Diploma with Advanced Designation. The overall goal of each course is for students to be able to understand, speak and write about a variety of topics with detail. Students will also be able to write in a more sophisticated way, using more nuanced vocabulary and increasingly complex language structures. Instructional materials may include current periodicals, authentic taped lectures, poetry, short stories, music, films and videos. Students in French, Italian and Spanish may opt to enroll for dual credit through MCC (fee required).

MODERN LANGUAGE LEVEL 5 & AP

(French, German, Italian, Spanish)

Grade(s): 11-12

Duration/Credit: Year – 1 Unit

Level: Advanced

Prerequisite: Level 4 or departmental recommendation

College Credit: MCC Dual Enrollment

These courses are designed to increase sophistication and complexity with the language studied, and to prepare students for continued language study in college. The overall goal of this course is to prepare students to understand, speak and write about a variety of topics, including those that are unfamiliar, with detail. Students will also be able to write in a more sophisticated way, using more nuanced vocabulary, as well as complex language structures. Instructional materials include more authentic sources. Students who complete a Level 5 course with an 85% or higher and complete portfolio requirements will be eligible to receive the Seal of Biliteracy designation on their high school diploma, distinguishing them as literate in both English and the language studied. Seniors in French, German and Spanish who take Advanced Placement are required to take the AP exam (fee required). All languages offer a dual enrollment option at this level of language study.

Advanced Placement Courses - summer work, is either required or highly recommended. Please see the teacher before the end of the school year for more details.

WORLD LANGUAGE COURSE (54502)

Target Language for 2022-2023: Korean

An innovative approach to language and culture

Grade(s): 9-12

Duration/Credit: Semester or Year - 1/2 Unit

(course offering subject to enrollment and staffing)

This course is designed to give students and a "teacher-coach" the opportunity to explore together, at an introductory level, a language and culture not taught in the regular modern language program. The "teacher-coach" will have the unique role of learning together with students. The course will have an interdisciplinary approach, rather than a foreign language learning approach. Integration of other disciplines will be a major focus, as students explore the many aspects of the culture, history, art, music, economics, traditions, etc. of the language. This course may be offered on alternating days (ACE or BDS) throughout the year or every day for one semester.



EASTERN MONROE CAREER CENTER

West Irondequoit recognizes the Eastern Monroe Career Center (EMCC) vocational programs as a complement to our comprehensive high school program for students who have a strong interest in a specialized vocational or career field. EMCC programs provide high school students the opportunity to develop the skills and attitudes they will need to succeed in their chosen career. EMCC combines real-life learning experiences, academic skills, and business and industry partnerships to prepare graduates for future education and employment endeavors.

Students attend a half-day session every school day. Schedules are designed so you can still take courses at IHS and participate in extracurricular activities. Three credits are earned for each course. The West Irondequoit Central School District pays for tuition and busing. Certain EMCC courses require uniforms and safety equipment. There may be an additional cost for college credit. Consult your IHS counselor with any questions.

Students who successfully complete an approved career and technical education program earn a Career and Technical Education endorsement on their Regents diploma by:

- completing all high school graduation requirements, including Regent's examinations
- passing a state or national technical assessment
- completing a work-based experience and employability profile.

EMCC Enrollment Process

1. Individual meeting with school counselor to discuss progress toward graduation and possibility of EMCC program in relation to career goals. Some EMCC programs require pre-requisites completed at IHS.
2. Visit EMCC program.
3. Return completed EMCC Enrollment Application with parent/guardian signature to Mrs. Bell in the College and Career Center no later than February 16, 2023.
4. Applications are reviewed by a committee that considers application completion/quality, progress toward graduation, current grades and attendance/behavior using a rubric that is found on the reverse side of the application.
5. Students and parents are notified of committee decision by April. *Please note that all approvals are dependent on space availability in the EMCC program.*
6. Attend parent/guardian Orientation Night at EMCC in June.

Please use this [link](#) to find out all the courses offered through EMCC including information about College Credit Options, Articulation Agreement and Dual Credit.

New Visions Programs

EMCC offers a selective medical and education program for seniors. There is a separate application process which is reviewed by a committee at EMCC.



AMNESTY INTERNATIONAL

Advisor: Mrs. Reinert

Meetings: 1st and 3rd Thursdays after school in Room 1148

Description: Amnesty International is a global movement of more than 10 million people who take injustice personally. Get involved in the fight to protect human rights in the U.S. and around the world. We want to make IHS students aware of what is going on beyond the walls of our building. Our club goals include educating the student body and trying to make a change.

ART CLUB

Advisor: Mrs. Jacobs

Meetings: 1st and 3rd Thursdays after school starting in October

Description: Open to all students with a passion for art. This club meets 2x per month to experiment with materials, share work, and hone their artistic skills. Club members may also help to plan and participate in student centered activities at the Arts Festival.

BLACK STUDENT UNION (BSU)

Advisors: Mr. Onorato, Mrs. Williams

Meetings:

Description: The Black Student Union club is a student-run club that works to ensure that there is a positive channel for Black students to shape the overall community at Irondequoit High School. The organization seeks to educate all students about acceptance and kindness as well as help students feel a sense of belonging.

CHICKENSCRATCH

Advisor: Mr. Kunz

Meetings: Every Wednesday after school starting in October

Description: Art and Literary magazine designed to give students a place to express themselves artistically with the added goal of producing a publishable piece by year end.

CONSTRUCTION CLUB

Advisors: Mr. Kazukiewicz, Mr. Schultz

Meetings: Thursdays after school in Room 1013

Description: Students will be working on several different wood and building trade related activities. These will include, but are not limited to; personal projects of their own, building wide projects or maintenance, long term projects which currently include constructing a boat.

CRAFTERS WHO CARE

Advisors: Mrs. Bell, Mrs. Campbell

Meetings: TBD

Description: This club offers students a chance to get together with others who enjoy knitting, sewing and crocheting. Afghans and quilts are made for local hospices, shelters, and other local charities. Basics of these crafts are also taught for those with limited experience.

D-Fi (Drug Free IHS)

Advisor: Mrs. Snyder

Meetings: Wednesdays after school in Room 3001

Description: D-Fi is a student group working to increase awareness and provide education related to youth substance use in Irondequoit. The group will work with the larger Drug-Free Irondequoit town coalition to address the goal of reducing youth substance use in Irondequoit.

DAPPER SINGER'S SOCIETY

Advisor: Mr. Falco

Meetings: Tuesdays from 3:00-3:15 at IHS and Fridays from 7:00-7:45 at Dake

Description: An a cappella vocal ensemble for men's voices. The ensemble performs at a very high level at concerts throughout the year both on and off campus. Membership is determined by audition in the fall of each year; to be eligible to audition, members must be enrolled in a curricular choir (Chorale, Jazz Choir, Choristers/Chamber Singers).

DECA

Advisors: Mrs. Bucciarelli, Mr. DiCesare, Mrs. Lent

Meetings: Thursdays at 7:20 a.m.

Description: This is a club for business students. DECA chapters attract students who are interested in preparing for entrepreneurial, marketing or management careers. Competitions exist for over 50 different marketing and management related events at the regional, state and national levels.

DRAMA CLUB

Advisor: Mr. Rugg

Meetings: After school on Fridays

Description: Drama Club will focus on giving an outlet to the performing arts beyond the ticketed productions. Students will build skills in stagecraft, assist with productions, build props, and set pieces, design costumes, and have the opportunity to participate in two performances throughout the school year.

FUTURE EDUCATORS OF AMERICA (FEA)

Advisor: Mrs. Georges

Meetings: Fridays at 3:15 in Room 3064

Description: This club is open to all students who are interested in a career in teaching. Students learn about requirements for becoming a teacher, how to select a college major and other information about preparing for a career in education. The club invites guest speakers to the meetings, and students have opportunities to observe and assist in classrooms with a mentor teacher.

GAMES CLUB

Advisors: Mrs. Wolf, Mrs. Johnson

Meetings: Fridays from 3:00-4:15 in Room 2000

Description: Games Club is a student-led group that meets to play strategy, roleplaying, board, and card games. Games played depend on student choice and may include: Uno, Apples to Apples, Dixit, Settlers of Catan, Forbidden Island, Exploding Kittens, Chess, Checkers and Dungeons and Dragons (D&D). Students currently have a schedule of playing D&D every other week. New members are always welcome. Attendance every week is not necessary and prior experience with games is not required.

GAY/STRAIGHT ALLIANCE: (GSA)

Advisor: Mrs. Bulmann-Mohr

Meetings: GSA meets weekly at 3:15. Contact Mrs. Bulmann to get added to the Team.

Description: This is a student-run club, typically in a high school or middle school, which provides a safe place for students to meet, support each other, talk about issues related to sexual orientation and gender identity and expression, and work to end homophobia and transphobia.

GREEN TEAM

Advisor: Mrs. McClelland

Meetings: Tuesdays after school

Description: The goal of Green Team is to educate students and staff about the importance of recycling and increasing awareness about sustainability. The students raise money by collecting recyclable bottles within the high school. Green Team uses the money to purchase supplies and to put towards an academic scholarship.

INTERACT CLUB (formerly Service Club)

Advisor:

Meetings: 1st and 3rd Wednesdays of the month from 3:15-4:15 in the PAC

Description: Interact is a service club for IHS students who want to connect with other young people and have fun while serving their communities and learning about the world. This club meets regularly and is sponsored by the local Rotary with a focus on projects that promote a sense of community and promoting international understanding. Students who participate will develop leadership skills and engage in meaningful service projects that impact our Irondequoit community.

LINK CREW

Advisor: Mrs. Bulmann-Mohr

Meetings: First Wednesday of the month

Description: This is a service organization that uses mentorship to transition freshmen to high school life by offering opportunities for them to socialize and connect.

MAKERSPACE CLUB

Advisors: Mr. Marshall, Mr. Mascari, Mr. Rivellino

Meetings: Wednesdays and Thursdays after school in Room 1010

Description: This is a place where people with shared interests, especially in computing or technology, can gather to work on projects while sharing ideas, equipment, and knowledge. The makerspace is equipped with 3D printers, laser cutters, various milling devices and more.

MATH LEAGUE

Advisors: Mr. Crawford, Mrs. Weaver

Meetings: Practice once per month; competition once per month through March

Description: This club participates once a month in the Monroe County Math League Meets against other area schools from October through February. Students use math and problem-solving skills. Club is open to all grades 8-12.

MEDIA/TECH CLUB

Advisor: Mr. Czadzeck

Meetings: Wednesdays at 3:05 in the DMRC (or determined by availability of members)

Description: This club is a relaxed place to explore a wide range of interests around the topics of technology and media. Discuss and create social media, podcasts, TV, films, websites, and other forms of production or explore innovations in technology and test out new tech. Our focus shifts from year to year based on the interests of the club members: you decide what we learn and do! The club is interested in developing a website during the 2022-2023 school year to showcase media created by club members.

MODEL U.N. CLUB

Advisors: Mr. Fleming, Mr. Hickey

Meetings: After school on Wednesdays

Description: This is an opportunity for students to role play as delegates to the United Nations and simulate UN committees. This activity is a diplomatic competition that takes place at regional conferences, organized with local high schools and colleges. Students can win awards in committee and gain valuable leadership experience within the club or as chair of regional conference committees. Some students even earn the opportunity to compete at the national and international level through Model UN.

MORNING SHOW

Advisor: Mr. Marshall

Meetings: Every morning at 7:40 am in the DMRC

Description: Irondequoit High School is home to the District Media Resource Center (DMRC) television studios, where students produce the "Morning Show" that is broadcast each day. Students who are interested in video editing, broadcasting and television have the opportunity to gain experience and have fun through this "real-world" club.

MOSAIC CLUB

Advisors: Mrs. Maldonado, Mrs. Zahariev

Meetings: Two Wednesdays a month at 3:00 in the LGIC

Description: Mosaic Club emphasizes building empathy, resiliency, and community. We celebrate diversity and work to educate against stereotyping, prejudice, and discrimination. Annual events include attending conferences such as ROC2Change where students from Monroe County schools engage in facilitated dialogue with peers related to race, racism, and privilege. We work to develop plans to **be** the change!

NATIONAL HONOR SOCIETY

Advisor: Mrs. Laraby

Meetings: 3rd Thursday of the month

Description: The IHS chapter of the National Honor Society promotes the recognition of students who achieve outstanding accomplishments in the areas of scholarship, character, leadership, and service. Eligible students are evaluated by a faculty committee in the second semester of their junior year. To be eligible, a student must have an academic average of at least 92.0 following the first semester of Junior year. The committee then considers the quality of the student's work within the other three criteria, utilizing staff feedback and the student's activity sheet. Once inducted, NHS members are expected to engage in club meetings and activities and to perform a minimum number of service hours each semester to maintain their membership. Please refer to the NHS brochure (available in the Counseling Center) for more detailed information.

NEODAONDAQUAT

Advisor: Ms. Jaynes

Meetings: Wednesdays at 3:00 in Room 1220

Description: We publish a 200+ page yearbook capturing school memories. There are many opportunities to work on photography, editing, layout, sales, publicity, finance, and other activities.

ODYSSEY OF THE MIND

Advisors: Mr. and Mrs. Lenzi

Meetings: Held at coaches/ team members homes (following all COVID 19 mandates/procedures/screenings if required). Teams will meet often from October-May for 3-20 hours per week depending on need. Teams will meet both in person and virtual. All Tournaments will be judged virtually and/or in person depending on the current COVID 19 mandates and guidelines. Tournament dates TBD but will be from March-May (Regionals, States, Worlds).

Description: The Odyssey of the Mind Program teaches students to learn creative problem-solving methods while having fun in the process. By tapping into creativity, and through encouraging imaginative paths to problem-solving, students learn skills that will provide them with the ability to solve problems. The Odyssey of the Mind Program teaches students how to think divergently by providing open-ended problems that appeal to a wide range of interests. Students learn how to identify challenges and to think creatively to solve those problems. They are free to express their ideas and suggestions without fear of criticism. The creative problem-solving process rewards thinking "outside of the box." While conventional thinking has an important place in a well-rounded education, students in OOTM also learn how to think creatively and productively. The Odyssey of the Mind Program also reinforces the current STEAM instruction within the district classrooms.

RODEQUOIT

Advisor: Mr. Kunz

Meetings: Every Thursday after school in Room 2036

Description: The school newspaper is published quarterly. It contains articles, editorials, surveys, pictures, and other journalistic material of interest to students.

SAILING CLUB (*this is not a school-sponsored club*)

The Irondequoit team meets Tuesday/Wednesday/Thursday from 3:30 until 6:30, September 6th until November 13th, and in the spring from March 13th until May 19th. For more information go to www.rochesteryc.com/hs-sailing.

SCIENCE CLUB

Advisor: Mr. Powlin

Meetings: TBD starting in January

Description: Science Club is a group of 1st year and 2nd year Physics students that meet with the goal of preparing for the American Association of Physics Teachers Physics Bowl Exam.

SERVICE CLUB – see INTERACT CLUB

SKI AND SNOWBOARD - BRISTOL

Advisors: Mrs. Heinlein, Mrs. Laraby

Description: Students travel to Bristol Mountain Friday afternoons to ski and snowboard on the 30+ trails that Bristol has to offer. Students are then transported home as the mountain closes for the evening and arrive back at the high school at approximately 11 p.m. In order to participate students must purchase passes through Bristol and register for bus transportation. Seats are limited to the first 50 paid registrants.

SKI AND SNOWBOARD - SWAIN

Advisor: Mr. Carrick

Description: Ski Trips are held on Sundays in January and February. Transportation is provided to and from Irondequoit High School. There is a fee for this activity. Cost will be determined at a later date.

STUDENT COUNCIL

Advisors: Mrs. Bell, Mrs. Campbell

Meetings: Tuesdays at 7:10 a.m. in Auditorium

Description: This group consists of students in grades 9-12. They organize many school and community events, such as Homecoming, Children's Holiday Party, Talent Show and Senior Citizen fun night.

SWEET SIXTEEN

Advisor: Mrs. Graham

Meetings: Monday mornings at 7:00 a.m. and Wednesdays at 3:00 p.m.

Description: These are acapella vocal ensembles for women and men, respectively. The ensembles perform at a very high level at concerts throughout the year both on and off campus. Membership is determined by audition in the fall of each year; to be eligible to audition, members must be enrolled in a curricular choir (Chorale, Jazz Choir, Choristers/Chamber Singers).

TORQUE CLUB

Advisors: Mr. Chupak, Mr. Kazukiewicz, Mr. Schultz

Meetings: Thursdays after school in Auto Shop

Description: This organization is designed for students interested in automobiles. Club members learn about and work on all types of engines. Activities include field trips and guest speakers.

TRI-M MUSIC HONORS SOCIETY

Advisor: Mrs. Welch

Meetings: 1st and 3rd Wednesday of each month at 7:15 a.m. in Room 1131

Description: This is an internationally recognized honor society for students involved in the music program at IHS. Students are nominated by music faculty and accepted through an application process. Tri-M members are involved in many charity projects throughout the year.

WATER POLO CLUB

Advisor: Ms. Schmidt

Meetings: Club may start in Mid-February

Description: Check back at a later date for more information.

WORLD LANGUAGE CLUBS

Advisor: See Mr. Thomas for more information.

Meetings: TBD

Description: Some years French, Spanish, German, Latin, and Italian students have separate activities specific to each language. Other years students choose to all get together as an "International Club". There is a holiday party with foreign Christmas carols, trips to see foreign films, and many food activities. Latin students also prepare for regional academic contests.

YOUTH ACTIVATION COMMITTEE (YAC)

Advisor: Mrs. Moroni

Meetings: Second Wednesday of each month at 3:00 via TEAMS

Description: Made up of young people representing the high school that work together to participate in Special Olympics global events promoting Special Olympics activities such as Unified Basketball.

FRESHMAN Class of 2026

Advisor: Ms. Jaynes

Meetings: Tuesdays at 3:00 in Room 1220

SOPHOMORE Class of 2025

Advisor: Mrs. Quintero

Meetings: Tuesdays at 2:00 in Room 2071

JUNIOR Class of 2024

Advisors: Mrs. Croll, and Mrs. Lynch

Meetings: Wednesday mornings at 7:30 a.m.

SENIOR Class of 2023

Advisor: Ms. Behrens

Meetings: TBD





Irondequoit High School

Community Values

Shared Purpose

Our goal is learning ~

helping each student to make the most of his or her talent and potential

Mutual Respect

We care about each other as human beings

Mutual Support

We help each other

Shared Pride

What we are doing is worthwhile and we celebrate our accomplishments

