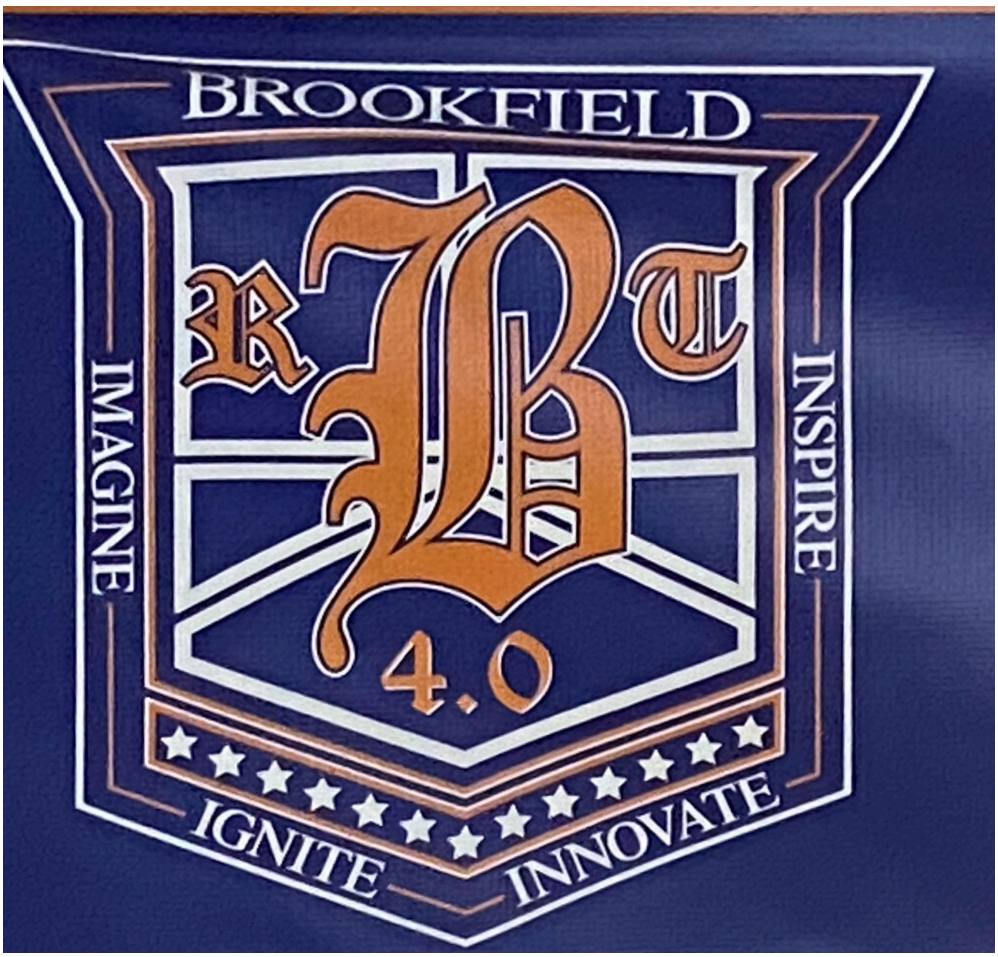
Brookfield Central School District Course Guide



PURPOSE

This course handbook has been prepared to provide information regarding graduation requirements and course offerings at Brookfield Central School. The intent is to make it possible for students and parents to plan a program which will best serve each student's goals and ambitions.

PLANNING YOUR ACADEMIC PROGRAM

When planning your academic program, careful consideration should be given to:

- satisfying requirements for graduation
- your future educational and higher education plans
- broadening your personal and career options

Each year, the School Counselor will meet with you to discuss future plans and to help you select appropriate courses for the following year. Teacher recommendations and parental input may also be sought.

Brookfield CSD currently offers a variety of diplomas: Local, Regents, Regents with Advanced Designation. A certificate of completion is also available. Regardless of the diploma type, *all students are required to take **a minimum** of five courses each year in addition to Physical Education totaling 5.5 credits.*

Each year a number of changes take place in the curriculum. The New York State Education Department may establish new mandates. Some courses are offered on alternate years, other courses are not offered because of insufficient registration. New elective courses are added from time to time. Your School Counselor will have this information for students who may be affected.

COURSE SELECTION

The major departments in the school have listed their curricular offerings. Under each offering you will note that the course title, recommended grade, credit, length of course, and prerequisites (as available) are listed. A course carries one unit of credit if it meets for one period every day for one school year and requires an equivalent amount of outside preparation. A course meeting every other day for one period for one year will earn half of a credit. The courses offered through BOCES will carry three to four credits each year, depending upon the program. Certain requirements for gaining credit in a course must be met. To receive

Regents credit in the New York State program, you must pass the Regents exam and have a passing final average in the course. Courses listed as prerequisites must be successfully completed prior to enrolling in that course. Review these prerequisites, as success in the course is often dependent upon previous success in the prerequisite course(s). Also remember to plan ahead so that you are not denied entrance to a particular course because you have failed to complete the prerequisite(s).

WHICH PATH IS BEST FOR ME?

All students need to meet New York State graduation requirements. **It is your responsibility**, while working with Brookfield CSD, to be sure that you have completed all the necessary courses and meet the Regents Examination(s) requirement. This depends on what you want to do after graduation. Most students who plan to attend college after high school follow the path leading to a Regents Diploma or Regents Diploma with Advanced Designation. Students who plan to attend a BOCES program typically follow the path leading to a Regents or Local Diploma.

Students who are interested in a career and technical education program at BOCES should plan ahead. If a Regents student plans his/her program carefully from grade 8, it is possible for him/her to earn an Advanced Regents Diploma and attend BOCES. Those who are taking a less strenuous program are able to attend college after high school but they will enhance their qualifications if they choose to take more regents courses. Community colleges, in particular, have open admission policies and from a community college, it is possible to transfer to a four year college.

HOW DO I DECIDE?

As a middle school student, you will meet with your School Counselor to map out your four year plan. Developing a general outline and discussing your plans after high school will help your School Counselor advise you about your course selections. The School Counselor's goal is to help you successfully complete your academic career and provide guidance in selecting an appropriate academic program to prepare you for future education and career goals.

Each year, the developed career plan will be reviewed with your counselor and changes can be made. Any decision made about your educational plan is an important one. Discussions at home, with teachers, and with your counselor will

help to determine which path is best for you. Students need to be ready to take the initiative and accept the responsibility for planning their four year program.

SCHOOL COUNSELING SERVICES

The School Counseling Office provides a variety of programs and resources to serve students and families within Brookfield CSD. Selected services may include (but are not limited to):

Counseling:

* individual counseling: personal, academic, social
* program planning: career and social
* college advisement and financial planning
* small group counseling: self esteem, anger management, friendship, grief, etc.
* mediation for students/peers, students/teachers

Coordination of Services:

* student registration and record maintenance
* state mandated testing reporting
* provide informational programs
* college and career planning
* assist with course selection, scheduling and diploma options
* classroom guidance lessons/activities
* parent/teacher conferences, as needed/requested

Consultation:

* cooperative process with parents, teachers, special education administration, building administration and school psychologist
* community resource and referral services
* letters of recommendation and job references
* college application assistance

DEFINITIONS

The following are definitions of important terms that are used in this handbook.

- **Career and Technical Endorsement to Regents Diplomas**—This endorsement is included on Regents Diplomas for students who have completed an approved career and technical education program at the Oneida-Herkimer-Madison BOCES.

- **Credit**- Students are awarded one credit toward their diploma for successfully completing a course that meets every day for the entire year. Students are awarded half credit for courses that meet every other day for a full year or every day for half of the year.The passing grade to earn .5 or 1 credit at BCS is 65.

- **Electives**- Additional courses other than required courses that are needed to meet the minimum credits for graduation.

- **Local Diploma**—An endorsement indicated on a student diploma certifies that students have completed 22 credits in the course of study specified by the State Education Department.

- **Regents Diploma**—This type of diploma certifies that the students have met the commencement-level New York State learning standards by successfully completing 22 credits and New York State assessments based on the year they entered 9th grade. Students meet these requirements through courses of study in English, Social Studies, Math, Science, the Arts, Health, Spanish, Physical Education, and Career and Technical Education.

- **Regents Diploma with Advanced Designation** - In addition to successful completion of the appropriate 22 credits of study, in order to earn a Regents diploma with advanced designation, students must pass* two additional math assessments and one additional science assessment along with the required 4-5 assessments included in any of the pathways. This totals 7 Regents exams or NYSED-Approved Regents Examination Alternatives and one pathway.

GRADUATION REQUIREMENTS

Required Courses	Local Diploma	Regents Diploma	Regents Diploma w/ Advanced Designation
English	4	4	4
Social Studies	4	4	4
Math	3	3	3
Science Distributed as follows: Life Science (1) Physical Science (1) Life Science or Physical Science (1)	3	3	3
World Languages	1	1	3
Art/Music	1	1	1
Health	½	½	½
Physical Education	2	2	2
Electives	3.5	varies	varies
Total Credits	22	22	22

Regents Diploma Required Regents Exams:
English (Grade 11)
Math (one exam)
Global History & Geography (Grade 10)
US History & Government (Grade 11)
Science (one exam)

Regents with Adv. Designation Diploma Required Regents Exams:

English (Grade 11)

Algebra I, Geometry, and Algebra II

Global History & Geography (Grade 10)

US History & Government (Grade 11)

Two (2) Science (one Living Environment and one Physical Setting)

World Language (local/proficiency exam)

***NYS Assessment Requirements [All exams require a score of 65 or above]**

DIPLOMA & EXITING CREDENTIAL REQUIREMENTS

New York State Mastery in Math Endorsement

Students who meet requirements for an Advanced Regents Diploma and who pass with a score of 85 or better on three Regents examinations in math will earn an annotation on the diploma that denotes Mastery in Math.

New York State Mastery in Science Endorsement

Students who meet recognition for attaining a high level of proficiency in listening, speaking, reading, and writing in one or more languages, in addition to English. Students must apply and earn credit for both languages in accordance with the New York State Seal of Biliteracy Handbook.

Local Diploma

A local diploma may be granted to students with formalized Individual Education Plans (IEP).. Successful completion of the state exam is required. Safety Net and Compensatory option is available for students with disabilities.

CDOS Commencement Endorsement

This endorsement can be used by students to either supplement their earned high school diploma or serve as an additional credential for students with a documented disability who are unable to earn a high school diploma.

Skills and Achievement Commencement Credential

An alternate credential for students with severe disabilities who have been instructed and assessed based on alternate achievement standards.

CALCULATION OF COURSES

Grade Point Average (G.P.A.)

At the end of each marking period, a grade point average is calculated by averaging each grade with the frequency of the class meeting - for example, a class that meets alternate days will count half as much as a class that meets daily.

COLLEGE LEVEL COURSES

By the time students reach their high school years, many are ready for the challenge of college level work. Courses offering such work allow the students to make the academic transition to a higher level without having to make other social and emotional adjustments, thus easing their transition to college life.. This experience also allows an opportunity for students to test their skills and discipline within the framework of college expectations. It may allow students to acquire sufficient college credits to accelerate their college programs if enough courses are successfully completed and accepted by their selected colleges/universities.

PLACEMENT AND CREDIT: - Colleges may grant credit and/or advanced standing. Certain courses are college level in that they make it possible for a student to score high enough on an exam given at the college to gain advanced standing or placement, by passing the intro level course. Each college has its own policy; consult the specific Admissions Office for information.

CONCURRENT ENROLLMENT COURSES:- College level courses are taught at the high school by high school faculty members who are also **approved** adjunct instructors with the respective, contracted college or university academic department. **(A change in teaching staff can affect available college courses.)* Concurrent enrollment courses are offered through MVCC (Mohawk Valley Community College) and TC3 (Tompkins Cortland Community College). Students wishing to earn college credit at Brookfield CSD through MVCC or TC3 do not have to pay tuition to the college and are concurrently enrolled. Instruction, materials and testing are similar to on-campus classes..Supervision of the programs is maintained by faculty of the respective college..

Mohawk Valley Community College and Tompkins Cortland Community College Concurrent Enrollment Programs

MVCC and TC3 offer several dual credit courses to Brookfield CDS students at no cost. BCSD teachers (and curriculum) have been approved by the college and staff are considered contracted adjuncts, teaching the same material, with the same text books, and to the same college transcript, as matriculated college-aged students.. As part of SUNY, MVCC and TC3 credits are transferable to colleges and universities around the nation and meet General Education Requirements.

PROMOTION POLICY FOR GRADES 9-12

In order for promotion to take place, students in Grades 9-12 must be in good academic standing. A grade of 65 or better is required to receive a passing grade and course credit toward graduation. Any student who fails a class and/or Regents Exam will be encouraged to retake the course and/or exam in summer school. *Should a student decide that they will not attend summer school, this may affect their ability to graduate on time with their class.*

SUMMER SCHOOL POLICY GRADES 9-12

It is strongly recommended that any student in grades 9-12 repeat failed course work and/or Regents Exams during summer school. This opportunity to catch up and remain on track for graduation is provided by BCSD and BOCES. Not all courses are available in summer school. *Due to scheduling conflicts, if a student chooses not to repeat a course in summer school, there is no guarantee that the failed subject(s) can be worked into the following year's district schedule. This may delay a student's graduation.*

GRADES 9-12 COURSE OFFERINGS

ART

Studio Art (Grade 9): 1 year, 1 credit
Media Arts-Comprehensive (Grade 9-12): one semester/.5 or .25 credit

ENGLISH

English 9: 1 year, 1 credit
English 10: 1 year, 1 credit
English 11: 1 year, 1 credit or one semester/.5 credit
English 12: 1 year, 1 credit

College and Career Readiness: One semester, .5 credit (Grade 11)
MVCC English 101: One semester, .5 HS credit, 3 college credits
MVCC English 102: One semester, .5 HS credit, 3 college credits
MVCC English Composition 105: One semester, .5 HS credit, 3 college credits
MVCC Effective Speech 150: One semester, .5 HS credit, 3 college credits

FOREIGN LANGUAGES
Spanish 7/8: 2 year, 1 HS credit
Spanish II (Grade 9) 1 year, 1 credit
Spanish III (Grade 10) 1 year, 1 credit
ASL I (American Sign Language)(Grade 10, 11, 12) 1 year, 1 credit

HEALTH
MS Health (Grade 8)
HS Health (Grade 10): One semester or every other day/.5 credit

MATH
Algebra 1A (Grade 9) and 1B(Grade 10): 2 years, 2 credits
MVCC MA 115: Algebra I (Grade 9): 1 year, 1 credit, 3 college credits
General Mathematics (Grade 10): 1 year, 1 credit
Geometry (Grade 10): 1 year, 1 credit
Consumer Math (Grade 11-12): one semester/.5 credit or 1 year/1 credit
MVCC MA 110: Statistics (Grade 11): one semester/.5 credit, 3 college credits
MVCC MA 125: Algebra II (Grade 11): 1 year 1 credit, 3 college credits
MVCC MA 150: Pre-Calculus (Grade 12): one semester/.5 credit, 4 college credits
MVCC MA 151: Calculus (Grade 12): one semester/.5 credit, 4 college credits

SCIENCE
Living Environment (Grade 9): 1 year 1 credit
Earth & Space Science (Grade 10): 1 year 1 credit
TC3 Chem 101/102: Chemistry (Grade 11): 1 year 1 credit, 4 college credits
TC3 Physics 104/105: Physics (Grade 12): 1 year 1 credit, 4 college credits
Anatomy and Physiology (Grade 11-12): 1 year, 1 credit
TC3 ASTR 101: Intro to Astronomy: (Grade 11-12): 1 year, 1 credit or one semester/.5 credit, 3 college credits
MVCC HC 100: Intro to Healthcare (Grade 11-12): 1 year 1 credit or one semester/.5 credit, 3 college credits
MVCC HM 100: Medical Terminology (Grade 11-12): 1 year 1 credit or one semester/.5 credit, 3 college credits

SOCIAL STUDIES
Global History & Geography I (Grade 9): 1 year 1 credit
Global History & Geography II (Grade 10): 1 year 1 credit
US History & Gov't (Grade 11): 1 year 1 credit
Participation in Government (Grade 12): one semester/.5 credit
Economics (Grade 12): one semester/.5 credit

PHYSICAL EDUCATION
PE 7-8: 1 year daily or every other day depending upon availability
PE 9-12: 1 year, .5 credit

MUSIC
MS Chorus (Grade 7-8)
HS Chorus (Grades 9-12): 1 year, .5 credit
MS Band (Grade 7-8)
HS Band (Grade 9-12): 1 year, .5 credit

AGRICULTURE AND TECH EDUCATION
Ag Explorations (7th Grade)(C.A.S.E.) one semester
Digital Literacy (7th Grade) one semester
Intro to Tech (8th Grade) one semester
Intro to Agriculture (8th Grade)(C.A.S.E.) one semester
AFNR (9th Grade)(C.A.S.E.) 1 year, 1 credit or every other day/one semester, .5 credit
Horticulture (Grade 10-12): 1 year, 1 credit
Animal Science (Grade 10-12)(C.A.S.E.): 1 year, 1 credit
Environmental Science (Grade 11-12): 1 year, 1 credit or one semester/.5 credit

7-12 COURSE LISTING

Art Education

Art 8- During the yearlong, every other day course, 8th-grade students explore art from around the world. Students work on various lessons designed to engage students by offering opportunities for artistic expression and media exploration. Students create two and three-dimensional works of art. Emphasis is placed on the use of art elements and principles of art to create successful artwork. Units are brought to close with students assessing their progress towards the learning target through group critiques.

Studio Art 9- (1 year, 1 credit) This course is an introduction to the visual arts, techniques and function of art in the past and present and are explored through this course. Students in 9th grade will demonstrate skills, techniques, creativity and experiment with several different mediums. The curriculum is project based. However, students will also demonstrate verbally and in writing an understanding of art concepts, art history, and common studio art disciplines such as drawing, painting, mixed media, etc.

Media Arts-Comprehensive (one semester/.5 or .25 credit)- Students in grades 9-12 can create and sell yearbooks. Comprehensive course during which students are introduced to the creative and conceptual aspects of designing media arts experiences. This includes techniques, genres and styles from various mediums and forms, such as moving images, sound, spatial and/or interactive designs. Topics may include aesthetic meaning, appreciation, analysis, composition, capture, process and programming of media arts products. This course also includes communications development, gathering and transmission of data, distribution and marketing of a final product.

ELA

English 7- This course is designed to build a foundation for more advanced work in reading and communication. Writing tasks include analytical, argument, and narrative writing, with students moving carefully through each step of the writing process (outlining, drafting and revision). Students are exposed to a broad range of literature, including texts such as A Long Walk to Water and Narrative of the Life of Frederick Douglas. Students follow established protocols for thoughtful discussions of these texts, with a focus on listening and responding respectfully. Various activities help students expand their vocabularies and improve their writing.

English 8- This course focuses on critical thinking, communication, and close reading of more complex texts. Students begin to develop independence in the writing process and are expected to complete more challenging assignments with less teacher guidance. The course features a wide range of texts, such as *To Kill a Mockingbird,* chosen to expose students to different historical eras and voices. These novels explore more mature themes that help prepare students of this age to navigate an increasingly complex world.

English 9 (1 credit)- This course emphasizes critical thinking and communication of textual details and themes, along with making claims and responding to opposing viewpoints. Students gain more independence as they work through challenging texts across various genres, including novels, short stories, poetry, and informational texts. Students gain exposure to global literature from authors such as Shakespeare and Elie Wiesel. Writing tasks include literary analysis, arguments, and creative writing assignments. In addition to strengthening skills in close reading and citing text evidence in writing, students focus on vocabulary acquisition and writing conventions.

English 10 (1 credit)- The course emphasizes more advanced literary skills and academic independence as students begin to focus more on their post-graduation plans. Students continue to read a diverse collection of global literature to experience how different voices can expand perspective and enrich our lives. Students take more ownership of their writing process by focusing on establishing their voice, providing deeper analysis, and producing clear and coherent work through language choice and revising. Students continue to expand their vocabularies through both explicit instruction and contextual work.

English 11 (1 year, 1 credit or one semester/.5 credit)- This course helps prepare students for college and careers by emphasizing full independence in close reading and writing from sources. Texts span a range of contemporary and traditional American literature, from foundational documents and speeches to war poetry and classical novels such as *The Great Gatsby.* Through a journalism unit, students strengthen their digital literacy skills and ability to evaluate sources for accuracy and bias. Students write in various formats and over a short and longer range of time periods, including an extensive research paper on a pertinent topic in American history. **Students take the ELA regents at the culmination of this course, typically In June.**

English 12 (1 credit)- This course focuses on the development of reading and writing skills designed to ensure that graduating seniors are well-prepared for education at the college level. Students will read complex texts with content that will challenge them. The readings cover a variety of historical and literary periods and will represent a wide range of styles.

College and Career Readiness (Grade 11, one semester,.5 credit): In this class tailored to juniors, students will begin building and developing real-world writing and analysis skills as they apply to the job or college application process, military and private sector preparation, as well as media literacy and other 21st century skills. This class consists of major projects that will prepare students for post-graduation life, including but not limited to: interview skills, resume and cover letter writing, applying to

college, and writing for self-representation. This class will also touch on a few important skills necessary to understand the complex transition from HS to real life, such as reading a pay-stub, filling out a W2, and applying for loans like FAFSA and mortgages.

MVCC College English 101: 11/12th Grade (one semester/.5 HS credit, 3 college credits): This course focuses on several kinds of writing-self-expressive, informative, and argumentative/persuasive, and others. A minimum of five essay compositions are required. The course emphasizes the composition of clear, correct, and effective prose required in a variety of professions and occupations.

MVCC College English 102: 11/12th Grade (one semester/.5 HS credit, 3 college credits): This course encourages a deeper understanding of human nature and the human condition through the study of ideas and values expressed in imaginative literature. Emphasis is placed on the use and development of critical thinking and language skills. Library-oriented research is required. Prerequisite: EN101

MVCC English 105: College Composition and Reading: 12th grade (one semester/.5 HS credit, 3 college credits): This course focuses on several kinds of writing-self-expressive, informative, and argumentative/persuasive, and others. A minimum of five essay compositions are required. The course emphasizes the composition of clear, correct, and effective prose required in various professions and occupations.

MVCC English 150: Effective Speech: 12th Grade (one semester/.5 HS credit, 3 college credits): This course covers the effective oral and written contexts of occupational communications. It includes practice in oral presentations, business letters, resumes, memos, instructional materials and reports, and visual aids.

Social Studies

Social Studies 7- Chronologically, this course teaches students the first half of American history, ending with the conclusion of the Civil War. More broadly, the course focuses on introducing or developing geographic reasoning skills, introduces bias, source reliability, and basic civics. Students are also introduced to economic concepts like mercantilism, capitalism, and colonialism. In this course, the root of chronology for American history is given a scaffolding for further development in Social Studies 8 (the second half of American history) and then again in high school Social Studies 11.

Social Studies 8- This course encompasses the second half of American history up to the present day. Students in this course will compare different types of government and economic systems and identify differences in foreign and domestic policies of the United States in the late 19th and 20th centuries. A major focus introduced in this course and reinforced until graduation is students' ability to articulate how events are related to each other in time and explain why events early in history may influence future ideas and events.

Global History & Geography I 9 (1 credit): This is the first year of a two-year sequence arranged chronologically. The goal is to enable students to become informed citizens regarding cultures, economies, and political structures worldwide. Students will use intellectual skills to demonstrate an understanding of major ideas, eras, themes, developments, geography, and turning points in world history. The course includes prehistory and ancient civilizations and concludes with the time of Absolutism. Students will develop the ability to communicate their understanding of world history from various perspectives while developing critical thinking and writing skills. There is a local final at the conclusion of 9th grade.

Global History & Geography II 10 (1 credit, Prerequisite: GS I): This is the second year of a chronological two-year sequence. The goal is to enable students to become informed citizens regarding cultures, economies, and political structures worldwide. Students will use intellectual skills to demonstrate an understanding of major ideas, eras, themes, developments, geography, and turning points in world history. The course begins with the Enlightenment and continues through the present. Students will develop the ability to communicate their understanding of world history from various perspectives while developing critical thinking and writing skills. **Students are required to pass a Regents exam at the end of the course.**

United States History and Government (1 credit, 11th grade): This chronological course emphasizes the history and development of the United States and surveys important national developments in politics, government, foreign policy, and economics. Students will learn about the important roles and contributions of individuals and groups. The course will also examine how the Constitution, the Supreme Court decisions, and citizenship rights provide a major unifying factor in bringing together Americans from diverse roots and traditions. **All students are required to pass the Regents exam.**

Economics (One Semester) (.5 credit, Grade 12): Required for graduation. The content includes both macroeconomic topics such as GDP, unemployment, inflation, saving, investing, exchange rates, Fiscal and Monetary policies, economic systems, international trade, scarcity, and opportunity cost. As well as microeconomic topics like supply and demand, market structures, business organizations, circular flow, market failure, and government intervention.

Government (One Semester) (.5 credit, Grade 12): Required for graduation. This course is designed to delve deeper into the workings of our government at the local, state, national, and international levels. A thorough study of the role political parties play in a democratic system will be included.

Math

Math 7- The focus of this course is to continue to build the foundation necessary for success in the study of algebra. Students will learn to make connections between theoretical processes and real-world applications. Students will concentrate on the following domains: integers and rational numbers, expressions, equations and inequalities, ratios and proportional relationships, percent and proportional relationships, geometry, and statistics and probability.

Math 8- Students will learn formulation and reasoning about expression and equations, including modeling an association in bivariate data with a linear equation and solving linear equations and systems of linear equations. Graphing the concept of a function and using a graphing calculator to describe quantitative relationships. Also, analyzing two and three-dimensional space and figures using distance, angle similarity, and congruence, and understanding and applying the Pythagorean Theorem.

Algebra 1A and 1B: Two Year Course (1 credit per year: total of 2 credits, 9th and 10th grade): This course builds upon the fundamental algebra skills students learn in 8th grade. Major topics include solving and graphing linear equations, inequalities, and quadratic equations, working with polynomials, factoring, radical expressions, and an introduction to statistics. Students are encouraged and permitted to use a graphic calculator. **Students will take the Regents exam in June of their 10th grade year.**

MVCC MA 115: Algebra I (1 credit/3 college credits, 9th grade)—This Regents-level course builds upon the fundamental algebra skills students learn in 8th grade. Major topics include solving and graphing linear equations, inequalities, and quadratic equations, working with polynomials, factoring, radical expressions, and an introduction to statistics. Students are encouraged and permitted to use a graphic calculator. **Students will take the Regents exam in June.**

Geometry (1 credit, 10th grade)- This course typically follows Integrated Algebra and is a study of both formal and informal geometric reasoning. It employs an integrated approach to the study of geometric relationships. This course integrates transformational and coordinate approaches to geometry. Students will justify geometric relationships and properties of geometric figures. They will study the congruence and similarity of triangles using memorized definitions, postulates, and theorems and be able to write two-column and indirect proofs. Properties of triangles, quadrilaterals, and circles will be studied and applied to solving situations and writing proofs. Students will make constructions using a straightedge and compass. **This is a Regents course; students are expected to take the Regents exam in June.**

General Math (1 credit, 10th grade) - This is an alternative to Regents Geometry. Students will study various topics, including financial math, probability, statistics, and geometry.

Consumer Math (1 credit/full year or .5 credit/one semester, 11th/12th grade): Consumer Math is designed to provide students with a comprehensive study of the mathematics used in consumer decision-making for the present time and in the future. Calculator usage will be taught to enable the student to perform advanced calculations and enhance problem-solving skills. Topics taught include but are not limited to banking skills, purchases, insurance, investments and taxes.

MVCC MA 125: Algebra II/Trigonometry (1 credit/3 college credits, 11th grade)—Students will study Algebra on a higher level and thoroughly examine trigonometry concepts. Major topics covered include families of functions, quadratic equations, complex numbers, exponential and logarithmic equations, sequences and series, statistics, polynomial functions, rational expressions and equations, trigonometric functions, identities, and the unit circle.
This is a Regents course, and students are expected to take the Regents exam in June.

MVCC MA 150: Pre-Calculus (one semester/.5 credit, 4 college credits, 12th grade)- This course continues the work of Algebra II. It extends the study of algebraic functions to a higher degree, polynomial functions, and the relationship between these functions and graphs in the coordinate system. It includes the study of exponential and logarithmic functions, more advanced trigonometry, and the transformation of functions from rectangular coordinates to polar coordinates. The basic rectangular coordinate work, which was part of Algebra 2 will be extended to cover Analytical Geometry. The graphing calculator is used extensively. Students who plan to take Calculus in college are advised to enroll.

MVCC MA 151: Calculus I (one semester/.5 credit, 4 college credits, 12th grade)- This is the first in a sequence of three courses in calculus. Topics include limits and continuity, differentiation of algebraic, trigonometric, exponential, and logarithmic functions, and indefinite and definite integration. Applications are included.

Career and Financial Management **(CFM) (10th/11th/12th grade, 1 credit)** - Students in this course will be doing research on colleges and careers along with resume writing, filling out applications, and some basic financial management skills.

MVCC MA 110: Elementary Statistics (one semester/.5 credit, 3 college credits, 11-12th grade): This course introduces probability and statistics. Topics include graphs, tables, frequency distributions, measures of central tendency and dispersion, normal distribution, correlation and regression, probability, and inferential statistics.

Music

MS Choral Ensemble (Grades 7 and 8) and HS Choral Ensemble (.5 credit, Grade 9-12) - This is a yearlong course, scheduled two/three days per week, that explores choral music from a wide variety of cultures and time periods. Throughout the course, students will learn how to master vocal techniques, sight-reading, music theory, and music history.

MS Band (Grades 7 and 8) HS Band (.5 credit, Grade 9-12): A yearlong course, scheduled two/three days per week, where students learn to play a musical instrument, developing their instrumental technique, music reading skills, and ensemble playing abilities through regular practice and performance. Focus on building upon foundational skills learned in elementary band while introducing more complex music and repertoire; the class usually involves rehearsals, individual practice outside of class, and culminates in public concerts throughout the year.

Physical Education and Health

Physical Education (Grade 7-8)(Grade 9-12, .5 credit)—New York State requires students to take this .5-credit course each year. All students must actively participate and pass the course content, which includes successfully completing PE each year to graduate. The content is designed to develop the "whole student" physically, mentally, socially, and emotionally through physical fitness.

Health: MS/HS (Grade 8)(Grade 10, .5 credit)—This course covers, at appropriate age levels, mental health, senses, nutrition, physical health and fitness, human sexuality, HIV/AIDS, substance abuse (drugs, alcohol, and tobacco), first aid, conflict resolution, relationships and self-esteem.

Science

Science 7- In this course, students will be exposed to cells, the human body, ecosystems, genetics, and health as well as the chemical processes of metabolism.

Science 8- Students will demonstrate an understanding of the methods scientists use to explore natural phenomena, including observation, hypothesis development, measurement and data collection, experimentation, evaluation of evidence, and employment of mathematical analysis. Students will demonstrate the application of scientific data, concepts, and models of the physical sciences. **A state examination will be taken in May, inclusive of state lab investigations.**

Living Environment (1 credit, Grade 9)- The purpose of this course is to provide students with a basic understanding of biological principles as applied to the natural world. There is an additional period for lab. Students must complete a minimum of 1200 minutes of lab work in order to sit for the Regents exam in June. Basic units involve genetics, ecology, cell theory, and some human physiology. **A minimum of 1200 minutes of lab work, including the required state lab investigations, must be completed in order to sit for the Regent's exam in June.**

Earth and Space Science (**1 credit, Grade 10)**- This course is designed to give students a better understanding of the world and space around them. Topics covered include measurement, mapping, astronomy and cosmology, geology, climatology, meteorology, plate tectonics, weathering and erosional processes, environmental science, an overview encompassing Earth's history, oceanography, and more. Students will learn skills in this class that will equip them with an understanding of a

world filled with natural disasters, changing climate, new discoveries and give them the knowledge to gather basic information about the world surrounding them. **A minimum of 1200 minutes of lab work, including the required state lab investigations, must be completed in order to sit for the Regent's exam in June.**

TC3 Chem 101/102: Chemistry (1 credit, 8 college credits, Grade 11): Chemistry is the study of the composition, structure, and properties of matter, the changes matter undergoes, and the energy involved with these changes. Atoms, molecules, the Periodic Table, Acids and Bases, and Nuclear and Organic Chemistry are the majority of the topics covered during the course. **A minimum of 1200 minutes of lab work must be completed in order to sit for the Regent's exam in June.**

TC3 Physics 104/105: Physics (1 credit, 8 college credits, Grade 12): Physics is a part of natural philosophy and natural science that involves the study of matter and its motion through space and time and related concepts such as energy and force. More broadly, it is the general analysis of nature conducted to understand how the universe behaves. **A minimum of 1200 minutes of lab work must be completed to sit for the Regent's exam in June.**

Anatomy and Physiology (**1 credit, Grade 12**): This course provides a general overview of the human body. It focuses on the structures and functions of tissues, organs, and organ systems. Topics covered include an overview of Anatomy and Physiology, cells and tissues, skin and body membranes, and skeletal, muscular, and nervous systems.

TC3 ASTR 101: Astronomy (one semester, .5 credit, 3 college credits, Grade 11-12): This course is a general study of the fundamental principles of astronomy. Topics include the motions of the earth, members of the solar system, stars, galaxies and universe. TC3 ASTR 101 fulfills the SUNY General Education Natural Sciences requirement, but is not a laboratory science course.

MVCC HC 100: Intro to Healthcare (1 year 1 credit or one semester/.5 credit, 3 college credits, Grade 11-12): The course introduces the field of healthcare for people interested in this field. Topics include an introduction to the healthcare delivery system, a brief historical overview of U.S. healthcare, healthcare settings and programs, members of the healthcare delivery team, roles of healthcare professionals, legal and professional ethics, healthcare organization and agencies, medical record content, risk management, continuous quality improvement, epidemiology (morbidity and mortality), and interpersonal communication skills.

MVCC HM 100: Medical Terminology (1 year 1 credit or one semester/.5 credit, 3 college credits, Grade 11-12): This course includes a study of the language of medicine, including roots, prefixes and suffixes and the proper pronunciation and spelling of medical terms. All body systems and functions, including the structure, meaning, and use of medical terms related to diseases and operations of the human body are covered. An introduction to pharmacology (medications) is included.

Spanish

Spanish 7 - This course will develop a strong foundation for the student's reading, writing, listening, and speaking skills. This class will also increase the students' cultural awareness of Spanish-speaking countries and people. Prepares students for proficiency level of a second language (called Checkpoint A). *This course continues at the 8th grade level.*

Spanish 8 (1 HS credit): Builds upon the reading, writing, listening, and speaking skills that the students learned in Spanish 7. The class will also expand the students' cultural awareness of Spanish-speaking countries and people. **The final assessment taken at the end of the 8th grade year is the Checkpoint A Proficiency Exam, and upon passing will grant the students the language credit needed to graduate high school.**

Spanish II (1 credit, Grade 9)- Students continue to develop the foundation of the Spanish language from Spanish 8. Students will engage in communication activities to further develop their listening, reading, writing, and speaking skills. In Spanish II, the students will work on their cultural awareness and learn more traditions and customs from Spanish-speaking countries. Spanish II will continually revise and expand upon the grammatical structures learned in Spanish 8. The grammatical structures include present tense, irregular present tense, present progressive, preterit, imperfect, and a brief introduction to the subjunctive mood.

Spanish III (1 credit, Grade 10)- Students will aim at interpersonal and presentational communication for 4 minutes when they speak. Contextual topics such as relating cultural practices and making cultural comparisons using realia, slide presentations, show and tell, or/and communication cards will be used to develop speaking skills. Students will identify topics and request information. Writing will meet the goal of 120 words in Spanish. Familiarity with short stories, poetry, and songs tied to the Spanish language will be presented. Listening skills will be achieved through videos and daily

interactions. Instruction of complex grammatical structures like the preterite vs imperfect, por vs. para, subjunctive, imperfect of the subjunctive, and the future and the conditional tenses. **These skills will be verified by the CheckPoint B Proficiency Exam and will be marked as achievements for the Regents diploma with Advanced designation.**

ASL (American Sign Language)(1 credit, Grade 10-12): a natural and visual-gestural language used by deaf people in the United States and Canada. It covers fingerspelling, signs, grammar, syntax, sentence structure, non-manual behaviors, basic communication techniques, and conversational skills as well as receptive and expressive language skill development. It reviews facets of Deaf culture.

<u>Agriculture and Tech:</u>

Ag Exploration (C.A.S.E.)(one semester, Grade 7): Takes middle school students through an exploration of the daily impact of agriculture, introducing plants, resources, energy, and animals we use and consume due to agricultural technologies.

Digital Literacy (one semester, Grade 7) —In this twenty week course, students are taught to understand and innovate with technology using the platforms Scratch and Tynker. These programs teach students the logic behind the technology they come in contact with daily. Every lesson over the twenty week period progressively builds on the last. As 21st-century learners, this class introduces students to the essential skills of programming in an ever-changing world.

Intro to Tech/Woodshop (one semester, Grade 8): This course is designed to help the student gain a basic understanding of the proper use and function of power equipment and hand tools for their own personal use, both in the shop and in the real world. This will be taught under strict enforcement of safety regulations, modeling awareness for themselves and others in the shop area.

Intro to Agriculture (C.A.S.E.) (one semester, Grade 8)- Expands on Grade 7 knowledge/explorations regarding the impact of agriculture on society, plant and resource management as well as energy usage and animal care and consumption.

AFNR: Ag Food and Natural Resources (C.A.S.E.) (Grade 9, 1 year, 1 credit or EOD/one semester .5 credit): Introduces students to a range of agricultural opportunities through investigation, experimentation, problem-solving, and solutions communications to peers and professionals.

Woodshop I (one semester, .5 credit)- This course is designed to help the student gain a basic understanding of the proper use and function of power equipment and hand tools for their own personal use, both in the shop and in the real world. This will be taught under strict enforcement of safety regulations, modeling awareness for themselves and others in the shop area. Additionally, the student will have the opportunity to make their blueprint designs come to life with beginner-friendly woodworking tasks, tying in the importance of taking and recording measurements.

Woodshop II (Prerequisite: Woodshop I, one semester, .5 credit): This course follows Woodshop I, but at an advanced level. Joinery is a large component of this class, teaching students the skill to fasten pieces together in a variety of ways to give that higher-quality look to their designs. Students will be expected and required to build complex pieces - such as furniture - as a showcase of their knowledge and skill level.

Introduction to Welding Principals (10th-12th grade, one semester, .5 credit): This course is intended to introduce students to the basic principles of welding. Students will have both lecture and hands-on experience throughout the course. They will learn about metalworking, electrical welding components, gas metal arc welding (MIG), and shielded metal arc welding (SMAW). *(Depending upon interest and master schedule availability, this course may be added, in part, to AFNR for 9th grade students.)*

Horticulture (10th-12th, one semester/.5 or 1 year, 1 credit)—This course is designed to help the student gain an understanding of the variables that affect plant growth and agricultural systems that can efficiently assist with the growing process, such as Grow Towers and other Hydroponic Systems that utilize constant water flow and grow lighting. In addition, the student will learn about the history and structure of irrigation systems in relation to crops and geographical features.

Animal Science (C.A.S.E.) (10th - 12th grade, one semester/.5 or 1 year, 1 credit): This course will provide students with information on both small and large animals. This course will cover topics such as animal handling, vaccinations, medication administration, routine care, and assisting professionals. This course will also look into occupations within the industry as well as terminology.

Food and Consumer Science (FCS) (7th and/or 8th grade, one semester) - This course helps students learn to manage the challenges of living and working in a diverse society. The course is designed to educate adolescents about their present and future responsibilities as consumers, and home managers, including how to

handle meal preparation and become wise wage earners. Through participation and hands-on learning, students better understand themselves and their world. Students are encouraged to think constructively, make sound decisions, solve problems, and manage resources.

Electives:

Work Study: in building experience (experience only, no credits)- Students in grades 10-12 can take part in a work-study. They work in the cafeteria setting up for meals, cleaning and helping younger students with meals. In the classroom setting, they help with whatever the teacher may need. This may include reading with students, making copies and transporting students to specials.

PLATO Protocol:

This is a program made available to BCSD through OHM BOCES/Middle Settlement Academy. Brookfield CSD contracts with BOCES for program set-up and management of the PLATO Program and it is completed in the district. An assigned BCSD teacher, in specified areas of instruction, monitors online coursework completion.

Career and Technical Education Programs (CTE)

Courses are offered at the Oneida-Herkimer-Madison BOCES Career and Technical Education Center. Programs are available to juniors and seniors. Students can enroll in select programs for one year during their senior year if a student does not wish to enroll in a program for two years. Students enrolled in CTE will attend BOCES or their internship site (if applicable) for one half day and must attend one half day at Brookfield High School. If a student does not attend school in their home district, said student may NOT attend CTE on that day. ***Program list as follows:***

*Advertising Design and Multimedia Production
*Animal Science (one year)
*Auto Body Repair
*Automotive Technology
*Conservation
*Construction Trades
*Cosmetology

*Criminal Justice
*Culinary Arts
*Early Childhood Education
*Electricity
*Emerging Technology and Cyber Security
*Food Service Occupations (one year)
*MiTech 9/10 (Models of Integrated Technology)
*Multi-Occupations
*New Visions (one year): (Business, Communication, Education, Engineering Tech, Health Professions, Legal Professions and Vet Science)
*Nursing Assistant
*Outdoor Power Equipment
*P-TECH: (Pathways in Technology Early College High School): Begins in 9th grade and culminates in an associate degree at 12th grade.
*Welding