

ROCHESTER SENIOR  
HIGH SCHOOL  
PROGRAM OF  
STUDIES 2025-2026

*“Commitment to  
Excellence”*

<b>General Information</b>	<b>2</b>
Board of Directors	2
Administration and Counselors	2
Mission	2
Belief Statements	2
<b>Scheduling Process</b>	<b>3</b>
<b>Graduation Requirements</b>	<b>4</b>
Graduation Requirements Specific to Beaver County Career & Technical Center (CTC) and Community College of Beaver County (CCBC) Academies	4
Pathways to Graduation	5
Curriculum	6
Class Rank & Quality Point Average (QPA)	6
Weighted Courses	
Honors and inhouse College in the High School courses are weighted using the scale listed above.	6
Recommended Course Sequence	7
Grade 9 – Recommended Freshman Year Courses	7
Grade 10 – Recommended Sophomore Year Courses	7
Grade 11 – Recommended Junior Year Courses	7
Grade 12 – Recommended Senior Year Courses	7
<b>Course Descriptions (All courses marked with the NCAA logo are approved by the NCAA.)</b>	<b>9</b>
Graduation Project 999 Credit 1.0	19
Dual Enrollment	29
College in High School	29
Community College of Beaver County High School Academies	30
Aviation Academy	30
Health Academy	31
STEM Academy	31
Beaver County Career & Technology Center (BCCTC)	34
Beaver County Career & Technical Center Transfer Policy	34
Work Release Program	38
<b>NCAA Quick Reference Guide</b>	<b>38</b>

## **General Information**

### ***Board of Directors***

Ms. Michelle L. Hubbard, President

Mrs. Jocelyn N. Haskins, Vice-President

Mrs. Christine S. Kronk, Treasurer

Mr. Randall E. Bacon

Mr. Lawrence E. Blackwell

Mr. James A. Bogolea

Mr. Thomas B. Daman

Mr. Thomas Majors

Mr. John L. Pfeuffer

### ***Administration and Counselors***

Dr. Jane Bovalino, Superintendent

Dr. Amanda Cwynar, Assistant to the Superintendent

Mr. Michael Damon, Middle/High Principal

Ms. Rachael Cipolla, Elementary Principal

Mr. Nathan Leeman, Director of Student Services

Ms. Megan Mouas, Middle/High Counselor

Mrs. Benita Lambert, Elementary Counselor

Mr. Steven Proctor, K-12 Social and Emotional Learning Counselor

### ***Mission***

The mission of Rochester Area School District is to utilize a unique K-12 educational complex by providing all students the opportunity to realize their maximum academic potential in a rapidly changing world.

### ***Belief Statements***

- All students can learn.
- We prepare our students to be lifelong learners.
- Students learn in different ways and at different rates.
- The key aspect of education is developing well rounded students who think creatively and critically to make informed decisions and solve problems.
- Education enables the individual to be a responsible, self-disciplined member of a community.
- Educational and cultural diversity enriches the educational experience for students.
- Students and staff will be proactive in creating a safe and caring environment.
- Education is a cooperative effort of the Board of Education, staff, students, parents, and the community.
- The school district fosters an environment that encourages all staff to exercise their unique skills to enhance education.

## Scheduling Process

1. Counselors will distribute the Program of Studies and a preliminary registration form to students in grades eight through eleven.
2. Students will select courses and obtain teacher recommendations for the required courses.
3. Upon completion, students must return their Preliminary Registration Form to the school counselor by the date indicated on the registration form.
4. Individual student conferences may be scheduled throughout the third nine-weeks grading period.
5. Course requests will be reviewed by the school counselors and entered into the scheduling program.
6. Courses that do not have 15 or more students in the class may not be offered.
7. Schedule Change Request - No schedule changes will occur after the first 10 school days of each semester. *An administrator's signature is required for all schedule changes thereafter.*
8. Questions regarding the scheduling process should be directed to:

Ms. Megan Mouas  
[mouasm@rasd.org](mailto:mouasm@rasd.org)  
724-775-7500 , Ext. 1182

## **Graduation Requirements**

Graduation requirements for Rochester High School students are as follows:

For students graduating prior to and including the class of 2028, the Board requires that each candidate for graduation shall have earned twenty-six (26) credits as per the following minimum credit requirements students in grades 9 – 12:

English	4.0
Science	4.0
Mathematics	4.0
Social Studies	3.0
Health	0.5
Arts & Humanities	2.0
General Electives	6.5
Physical Education	1.0
Graduation Project	1.0

Starting with the graduating class of 2029, the Board requires that each candidate for graduation shall have earned twenty-six (26) credits as per the following minimum credit requirements students in grades 9 – 12:

English	4.0
Science	4.0
Mathematics	4.0
Social Studies	3.0
Health	0.5
Personal Finance	0.5
Arts & Humanities	2.0
General Electives	6.0
Physical Education	1.0
Graduation Project	1.0

### **Graduation Requirements Specific to Beaver County Career & Technical Center (CTC) and Community College of Beaver County (CCBC) Academies**

#### **Two Year Program Requirements**

- 4 Years of English
- 4 Years of Math
- 3 Years of Science
- 3 Years of Social Studies

#### **Three Year Program Requirements**

- 4 Years of English
- 3 Years of Math
- 3 Years of Science
- 3 Years of Social Studies

## ***Pathways to Graduation***

In accordance with Pennsylvania's Act 158 of 2018, beginning with the graduating class of 2023, students must meet statewide graduation requirements in one of five ways. More information regarding the pathways can be found on the PDE's website using the following link: [Statewide High School Graduation Requirement](#).

**Keystone Proficiency Pathway:** The student scored proficient or advanced on all three Keystone Exams (Algebra I, Literature, and Biology).

**Keystone Composite Pathway:** The student's combined score on all three Keystone Exams (Algebra I, Literature, and Biology) is at least 4,452 and at least one score is proficient or advanced, and no score is below basic.

**Alternate Assessment Pathway:** The student must earn a passing grade in Algebra I, Literature, and Biology and one of the following:

- PSAT Composite Score of at least 970
- SAT Composite Score of at least 1010
- ASVAB Score of at least 31
- Acceptance into accredited, nonprofit Institution of Higher Education (IHE) four year program for college level coursework

**Evidence Based Pathway:** Student must earn a passing grade in Algebra I, Literature, and Biology and three artifacts consistent with student goals (one or more from Section One and No more than two from Section Two:

- Section One
  - Attainment of 630 or better on any SAT Subject Test
  - Attainment of Silver Level or better on ACT WorkKeys
  - Attainment of 3 or better on any AP Exam
  - Attainment of 3 or better on any IB Exam
  - Successful completion of any concurrent enrollment or postsecondary course Industry-recognized credentialization
  - Acceptance into accredited, nonprofit Institution of Higher Education (IHE) four year program for college level coursework
- Section Two
  - Attainment of Proficient or Advanced on any Keystone Exam
  - Successful completion of a service-learning project
  - Letter guaranteeing full-time employment or military enlistment completion of an internship, externship, or cooperative education program
  - Compliance with NCAA Division II academic requirements

**CTC Pathway:** Student must earn a passing grade in Algebra I, Literature, and Biology and one of the following:

- Satisfactory completion of local requirements and attain industry certification
- Pass NOCTI Exam

## Curriculum

Rochester High School offers a variety of courses in the academic, scientific, business, and technical curriculum areas. Students and parents/guardians should plan course selection carefully. The services of the school counselors are available to assist students and their parents in making choices that will be most beneficial to meet each student's needs.

### Class Rank & Quality Point Average (QPA)

Class rank will be calculated using the following methodology:

1. Each subject grade has been assigned a numeric equivalent value called a quality point. The total amount of quality points is determined per course for the duration of a student's academic career. A 4-point scale for unweighted and a 5-point scale for weighted courses is used.

#### Non-weighted Scale

A = 4  
B = 3  
C = 2  
D = 1  
F = 0

#### Weighted Scale

A = 5  
B = 4  
C = 3  
D = 2  
F = 0

2. The quality points are multiplied by each course's credit value.
3. The total amount of quality points is then divided by the total amount of credits, including both those credits attempted and those credits achieved. This figure is the student's Cumulative Quality Point Average.

### Weighted Courses

Honors and inhouse College in the High School courses are weighted using the scale listed above.

## **Recommended Course Sequence**

### **Grade 9 – Recommended Freshman Year Courses**

English 9 College & Career	1
American History	1
Algebra I	1
Algebra I Lab	0.5
Earth and Space Science	1
Physical Education	0.25 or .5
Freshman Seminar	0.5
Personal Finance	0.5
Arts and Humanities Course	1
Elective	1

*To be considered a sophomore, a student must have obtained 7 credits during their freshman year.*

### **Grade 10 – Recommended Sophomore Year Courses**

English 10 College & Career	1
World History and Culture	1
Biology & Lab	1.5
Algebra II	1
Health	0.5
Sophomore Seminar	0.5
Physical Education	0.25 or .5
Arts and Humanities Course	1
Electives to complete a schedule	

*To be considered a junior, a student must have obtained 14 credits.*

### **Grade 11 – Recommended Junior Year Courses**

English 11 College & Career	1
Geometry	1
Political Science and Economics	1
Physical Science or Chem/Lab	1/1.5
Physical Education	0.25 or .5
Electives to complete a schedule	

*To be considered a senior, a student must have obtained 21 credits.*

### **Grade 12 – Recommended Senior Year Courses**

English 12 College & Career	1	CHS Biology
Mathematics	1	
Anatomy & Physiology or	1	
Criminal/Forensic Science or		
Physical Education	0.25 or .5	
Graduation Project	1	
Electives to complete a schedule		

*26 credits are required for graduation*



**In order to take Honors and/or College in High School (CHS) Courses, you must meet the following prerequisites:**

1. **Score either** proficient or advanced on the most recent content area Keystone/PSSA assessment of the Honors or CHS course you would like to take, **OR**
2. Must meet the following:
  - a. Have an “A” or “B” (at least 80%) average at the conclusion of the 1st Semester in your current content class of the Honors or CHS course you would like to take **AND**
  - b. Have Teacher or Administrator written approval.
  - c. If the student receives a “D” or “F” during the 3rd or 4th grading period, the student will be removed from the class.

<b>CHS COURSE</b>	<b>PSSA/KEYSTONE</b>
CHS Honors English 12	Literature Keystone
CHS Calculus	Algebra Keystone
CHS Statistics & Probability	Algebra Keystone
CHS Chemistry	Biology Keystone
CHS Holocaust	Literature Keystone
CHS Biology	Biology Keystone
CHS Financial Accounting 1	Algebra Keystone
CHS Entrepreneur Experience	Algebra Keystone, Biology Keystone
CHS Marketing & Advertising	ELA 8, Literature Keystone

**Honors and College in High School course selections are final and cannot be dropped by students without administrative approval.**

## Course Descriptions (*All courses marked with the NCAA logo are approved by the NCAA.*)

### English

*Students must successfully earn a minimum of 4 English credits in grades 9 - 12 in order to qualify for graduation.*

#### **English 9 College/Career** 1009cc **Credit: 1.0**



This course is designed to develop the basic skills of students as readers and writers through the analysis of complex texts in the genres of fiction, nonfiction, poetry, and drama. Students will read and analyze a variety of work by numerous authors. Grammar and vocabulary will be integrated with textual studies. Students will develop their own written expression and improve their language awareness through various styles and approaches to writing that include informative, argumentative and MLA research.

#### **English 9 Honors** 1009H **Credit: 1.0**



**(Honors course selections are final and cannot be dropped by students without administrative approval.)** This is a course designed to expand students' skills in the areas of writing, grammar, speech, vocabulary, and literary analysis for both complex fiction and nonfiction texts. It includes a survey of literature from various genres and writing in the MLA format. It is designed for those students who plan further education after high school graduation. To qualify for placement in this course, a student must have teacher recommendation based on writing samples and excellent classroom performance encompassing test scores. This course has a required Summer Reading. Students who do not complete the required reading and do not pass the examination that takes place during the 1st week of school may be registered for English 9. Students who do not maintain a passing grade throughout the year may be moved to English 9. The failing grade will follow the student to the new class and will be incorporated. **Prerequisite: Refer to page 8.**

#### **English 10 College/Career** 1010cc **Credit: 1.0**



This course uses selections from American literature to study various literature types: short stories, essays, novels, and drama. Students will also study grammar and vocabulary development. Students will develop reading strategies, and literary analysis skills. Students will work on basic paragraph development, short essay writing, and multiple paragraph compositions. Additionally, students will increase knowledge of nonfiction text structure and writing.

**English 10 Honors****1010H****Credit: 1.0**

**(Honors course selections are final and cannot be dropped by students without administrative approval.)** This course includes in-depth analysis of various forms of American literature and development of writing techniques expected in Advanced Placement English. Heavy emphasis will be placed on literary analysis, focus-driven discussion, and persuasive writing skills. Literature will be brought to life through art, drama/skits, writing, readings and discussion. Reading strategies and literary analysis skills will be developed. **Note:** This course has a required Summer Reading List. Students who do not complete the required readings and complete the required assignments during the 1st week of school may be registered for English 10. Students who do not maintain a passing grade throughout the year may be moved to English 10. The failing grade will follow the student to the new class and will be incorporated. **Prerequisite: Refer to page 8.**

**English 11 College/Career****1011cc****Credit: 1.0**

This is a comprehensive course that revolves around the study of literary ages and the evolution of the English language, as well as social and cultural impacts on the literature. The literary units are focused upon the ages of British literature, Western literature & American literature. The focus is on textual understanding, the progression of thought through the ages, understanding central ideas and determining what is explicitly stated, what is implied, and what is left uncertain. In addition, there is an emphasis on critical thinking and synthesis as well as historical, political and societal influences on the authors and their writings. The coursework requires students to think critically and support their ideas with specific evidence using a variety of modalities including projects and Socratic discussions. Essays and evidence-based research papers/projects are required writings, with emphasis placed on depth, development and analytical techniques. Appropriate SAT vocabulary and literary terms will accompany units. Evaluation of student work may include but is not limited to section quizzes, unit tests, formal essays, individual and collaborative projects, one-pagers, homework, participation informally and through Socratic discussions, and a culminating final project.

**English 11 Honors****1011H****Credit: 1.0**

**(Honors course selections are final and cannot be dropped by students without administrative approval.)** This is a comprehensive course that revolves around the study of literary ages and the evolution of the English language, as well as social and cultural impacts on the literature. The literary units are focused upon the ages of British literature, Western literature & American literature. Reading, writing, speaking, and listening are reinforced through a close study of the literature. This course is designed for the student who is proficient or advanced with all basic grammar, multi-paragraph writing and reading comprehension skills. This course is organized by a historical literary period with multiple genres: essays, articles, letters, journals, autobiographies, dramas, novels, short stories, and poetry. Both fiction and considerable non-fiction are included. Critical thinking and analysis improvements are emphasized through close study of historical and societal influences upon authors and texts; emphasis is also given to the structure of texts, including rhetorical appeals, literary devices, and

vocabulary. Analytical, organized and critical writing skills are mastered through an inquiry-based, rigorous, historically relevant research paper, as well as multiple literary analysis essays anchored both in and among the literary periods. Several project-based learning opportunities exist throughout the year that integrate problem-solving, collaboration and presentation. Independence and internal motivation are key components, and skills in annotating, questioning, and responding to questions are practiced. Course work will require students to analyze and evaluate information through course relevant research and related writing assignments.

**Prerequisite: Refer to page 8.**

**English 12 College/Career**

**1012cc**

**Credit: 1.0**



This is a comprehensive course that focuses on the study of literature from the British tradition as well as contemporary authors and encompasses various literary styles of writing. The coursework requires students to think critically and support their ideas with specific evidence. Students will read and analyze a variety of work by numerous authors. In addition, there is an emphasis on critical thinking and synthesis as well as historical, political and societal influences on the authors and their writings. Grammar, vocabulary development, composition, and the literary research paper and presentation will be integrated with textual studies. Public speaking skills and practices will be a requirement for this course in preparation and support for students delivering senior project presentations during the Spring semester.

**CHS Honors English 12**

**1012H**

**Credit: 1.0**



**(Honors course selections are final and cannot be dropped by students without administrative approval.)** This is a college-level course designed to prepare college-bound students with the type of reading, writing, and speaking that they will encounter in college. Students will read, discuss, and analyze literature forms and elements at a higher level and write literary analysis. They will also complete a Public Speaking course and will receive college credits at the end of the course at a cost to the student. The public speaking portion is an introduction to speech communication which emphasizes the practical skills of public speaking. Its goal is to prepare students for success in typical public speaking situations and to provide them with the principles of organization and research needed for effective speeches. NOTE: This course has a required Summer Reading List. Students who do not complete the required readings and who do not complete the required MLA research paper during the first week of school will be placed in English 12 College & Career, as they have not met the requirements for this course. The failing grade will follow the student to the new class and will be incorporated. All students in CHS Honors English 12 will have the option to be enrolled in the affiliated College in High School Program. College credit will appear on the College/University transcript. **Prerequisite: Refer to page 8.**

# Mathematics

*Students must successfully earn a minimum of 4 Math credits in grades 9 - 12 in order to qualify for graduation.*

## Algebra I

201

Credit: 1



This course is a one-year course of Algebra I. This course examines the basic structure of real numbers, algebraic expressions, and functions. The topics studied are linear equations, inequalities, functions and systems, quadratic equations and functions, polynomial expressions, data analysis, probability, and the elementary properties of functions. Mathematical modeling of real-life problems and problem solving are major themes of the course. Concepts and skills in this course are aligned to the PA state standards.

## Algebra I Lab

202

Credit: 0.5

**(Lab courses will count as elective credits) Algebra I LAB** meets every other day in conjunction with the Algebra 1 class to aid and support the learning and structure of Algebra 1. This course examines the basic structure of real numbers, algebraic expressions, and functions. The topics studied are linear equations, inequalities, functions and systems, quadratic equations and functions, polynomial expressions, data analysis, probability, and the elementary properties of functions. Mathematical modeling of real-life problems and problem solving are major themes of the course. Concepts and skills in this course are aligned to the PA state standards.

## Algebra II

203

Credit: 1.0



In this second algebra course key concepts will be studied more in-depth with a focus on fundamental properties of integers, equations, expressions, graphing, inequalities, algebraic fractions and different degree equations with factoring. This course expands upon all the information presented in Algebra I and previous math courses. The students learn the properties of real, irrational and complex numbers and how they are used in solving problems. The students learn to factor polynomials, graph equations, and solve systems of equations and to apply algebraic concepts to analytical geometry. The students will learn to simplify and solve rational expressions, as well as solving quadratic equations and functions. Students will also learn to solve polynomial equations. **Prerequisite: Passing Algebra I (60% or greater).**

## Honors Algebra II

203H

Credit: 1.0



**(Honors course selections are final and cannot be dropped by students without administrative approval.)** This course will cover the Algebra II concepts at an in-depth and rapid pace and will include rigorous assessments. In this second algebra course key concepts will be studied more in-depth with a focus on fundamental properties of

integers, equations, expressions, graphing, inequalities, algebraic fractions and different degree equations with factoring. This course expands upon all the information presented in Algebra I and previous math courses. The students learn the properties of real, irrational and complex numbers and how they are used in solving problems. The students learn to factor polynomials, graph equations, and solve systems of equations and to apply algebraic concepts to analytical geometry. The students will learn to simplify and solve rational expressions, as well as solving quadratic equations and functions. Students will also learn to solve polynomial equations. **Prerequisite: Refer to page 8.**

### **Geometry**

**204**

**Credit: 1.0**



This course is an in-depth study of geometric figures with an emphasis on the relationship of sides and angles. The students learn how to use information to develop mathematical relationships and to solve for unknown qualities. Gaining the ability to sort, organize information relating to a problem and to arrive at a correct conclusion emphasizes the development of deductive reasoning. This course contains various mathematical categories including Algebraic equations, Patterns, Coordinate Geometry, Right Triangle Applications, Trigonometric Functions, Accumulation of Areas and Volumes, Reasoning, Problem Solving, Computation, Comparing Numbers, Significant Digits, and Representing Numbers in Equivalent Forms. Concepts and skills in this course are aligned to the PA state standards.

### **Honors Geometry**

**204H**

**Credit: 1.0**



**(Honors course selections are final and cannot be dropped by students without administrative approval.)** This course will cover the Geometry concepts at an in-depth and rapid pace and will include rigorous assessments. This course is an in-depth study of geometric figures with an emphasis on the relationship of sides and angles. The students learn how to use information to develop mathematical relationships and to solve for unknown qualities. Gaining the ability to sort, organize information relating to a problem and to arrive at a correct conclusion emphasizes the development of deductive reasoning. This course contains various mathematical categories including Algebraic equations, Patterns, Coordinate Geometry, Right Triangle Applications, Trigonometric Functions, Accumulation of Areas and Volumes, Reasoning, Problem Solving, Computation, Comparing Numbers, Significant Digits, and Representing Numbers in Equivalent Forms. Concepts and skills in this course are aligned to the PA state standards. **Prerequisite: Refer to page 8.**

### **Pre-Calculus/Trigonometry**

**205**

**Credit: 1.0**



This course studies the relationships between geometry and algebra in depth and develops the analytical thinking skills of the student. The subjects covered are trigonometric functions, inverse functions, complex numbers, and logarithms. Other subjects include trigonometric identities, graphing of Conic sections, analytic Geometry, Vectors, Probability, solving right and oblique triangles and graphing functions. It is essential that all equation solving components from Algebra I and Algebra II be mastered before the beginning of this course. Concepts and skills in this course are aligned to the PA state standards. **Prerequisites: Passing Algebra I, Algebra II, and Geometry.**

**CHS Calculus****206CHS****Credit: 1.0**

This course provides an introduction to the ideas and applications of calculus. The major topics studied are limits and continuity; differentiation; applications of differentiation; and integration. All students in College Calculus will have the option to be enrolled in the affiliated College in High School Program. College credit will appear on the College/University transcript.

**Prerequisite: Refer to page 8.**

**Statistics and Probability****207****Credit: 1.0**

This course is for the college bound student. The students will be exposed to statistics, probability, and statistical displays. Computers and graphing calculators will be used extensively throughout the course. Students will work with both manufactured and “real” data in the course. The emphasis of the course will be data interpretation and prediction. Basic concepts covered will include but are not limited to measures of central tendency, variation, data displays, probability models and statistical tests. Evaluation will consist of tests, quizzes, homework, and projects.

**Prerequisites: Passing Algebra I, Algebra II, and Geometry.**

**CHS Statistics & Probability****207CHS****Credit: 1.0**

The students will be exposed to statistics, probability, and statistical displays. Computers and graphing calculators will be used extensively throughout the course. Students will work with both manufactured and “real” data in the course. The emphasis of the course will be data interpretation and prediction. Basic concepts covered will include but are not limited to measures of central tendency, variation, data displays, probability models and statistical tests. Evaluation will consist of tests, quizzes, homework, and projects. All students in College Statistics & Probability will have the option to be enrolled in the affiliated College in High School Program. College credit will appear on the College/University transcript. **Prerequisite: Refer to page 8.**

**Consumer Math****208****Credit: 1.0**

This course is designed for seniors. This course exposes the students to the use of basic math skills in real life situations. A few of the real life situations that will be covered are buying a car, budgeting money, investing, paying taxes, and calculating the cost of painting and carpeting an apartment or house. Evaluation will consist of tests, quizzes, homework, and projects.



# Science

*Students must successfully earn a minimum of 4 Science credits in grades 9 - 12 in order to qualify for graduation.*

## **Earth and Space Science** **107** **Credit: 1.0**



**Students should take Earth and Space Science in their Freshman year.**

Earth & Space Science is designed to give students an understanding of the Earth and the universe around it. Students are introduced to the fields of astronomy (solar system, stars & universe), geology (plate tectonics, rock cycle, earthquakes, and faulting), meteorology (weather patterns, atmospheric conditions, and the greenhouse effect) and Environmental science topics (resources, ecosystems, cycles, human impact). This course includes discussions and investigations of the Earth, its composition, processes, history, and position in space. This course is aligned with the Pennsylvania State Science Standards for Earth/Space and Environmental Science.

## **Biology 1** **101** **Credit: 1.0**



**Students should take Biology or Honors Biology in their Sophomore year.** Biology provides the student with a deep understanding of the many facets of life. The scope, science and processes of Biology; chemical basis of life, molecules of life, a tour of the cell, the working cells of plants and animals; cellular basis of inheritance, patterns of inheritance, DNA, human genetics & technologies and lastly how species change over time.

## **Biology 1 Lab** **102** **Credit: 0.5**

**(Lab courses will count as elective credits)** This course is required to take in tandem with the Biology 1 class. The topics covered in Biology 1 class will be explored through investigative lab activities, case studies and other practical activities that will expose the students to the application side of their scientific studies.

## **Honors Biology** **101H** **Credit: 1.0**



**Students should take Biology or Honors Biology in their Sophomore year.**

This course will cover the Biology concepts at an in-depth and rapid pace and will include rigorous assessments. **Prerequisite: Refer to page 8.**

## **Honors Lab Biology** **102H** **Credit: 0.5**

**(Lab courses will count as elective credits)** This course is required to take in tandem with Honors Biology class. The topics covered in Honors Biology will be explored through investigative lab activities, case studies and other practical activities that will expose the students to the application side of their scientific studies.



**Chemistry 1****103****Credit: 1.0**

**Students should take Chemistry, Honors Chemistry and/or Physical Science in their Junior year.** Conceptual, algebra based study of the structure of matter. Topics covered will include gasses, liquids, and nuclear interactions. Mathematical interpretation and laboratory experience are integrated with the subject matter. Higher-level thinking skills are emphasized. Any student planning on going to college should elect this course.

**Recommended Prerequisite: Algebra 1**

**Chemistry 1 Lab****104****Credit: 0.5**

**(Lab courses will count as elective credits)** This course is required to take in tandem with the Chemistry 1 class. The topics covered in Chemistry 1 class will be explored through investigative lab activities, case studies and other practical activities that will expose the students to the application side of their scientific studies.

**Honors Chemistry 1****103H****Credit: 1.5**

**Students should take Chemistry, Honors Chemistry and/or Physical Science in their Junior year.**

Conceptual, algebra based study of the structure of matter. Topics covered will include gasses, liquids, and nuclear interactions. Mathematical interpretation and laboratory experience are integrated with the subject matter. Higher-level thinking skills are emphasized. Any student planning on going to college should elect this course. This course will cover these chemistry concepts at an in-depth and rapid pace and will include rigorous assessments above and beyond Chemistry 1. **Prerequisite: Refer to page 8. In addition to the information on page 8, students must have completed Chemistry 1.**

**Honors Chemistry 1 Lab****104H****Credit: 0.5**

**(Lab courses will count as elective credits)** This course is required to take in tandem with the Honors Chemistry class. The topics covered in Honors Chemistry class will be explored through investigative lab activities, case studies and other practical activities that will expose the students to the application side of their scientific studies.

**CHS Chemistry****105CHS****Credit: 1.5**

All students in CHS Chemistry will have the option to be enrolled in the affiliated College in High School Program. College credit will appear on the College/University transcript.

**Prerequisite: Refer to page 8.**

**CHS Chemistry Lab****106CHS****Credit: 1.5**

**(Lab courses will count as elective credits)** This course is required to take in tandem with the CHS Chemistry class. The topics covered in CHS Chemistry class will be explored through investigative lab activities, case studies and other practical activities that will expose the students to the application side of their scientific studies.

**Physical Science****108****Credit: 1.0**

**Students should take Chemistry, Honors Chemistry and/or Physical Science in their Junior year.** This is a conceptual study of physics and chemistry. The laws of

motion, forces, energy and momentum, properties and states of matter, heat and thermodynamics, gasses, structures of matter, liquids will be studied. Mathematical interpretations, projects, current events and laboratory experience will be integrated with the subject matter.

**Anatomy & Physiology** 109 **Credit: 1.0**



**Students should take Anatomy & Physiology, CHS Biology or Criminal and Forensic Science in their Senior year.**

In the real world, anatomy and physiology are always related. The parts of your body form a well-organized unit, and each of those parts has a job to do to make the body operate as a whole. Structure determines what functions can take place. The intimate relationship between anatomy and physiology is stressed throughout this course to make your learning meaningful.

**Honors Anatomy & Physiology** 109H **Credit: 1.0**

This course will be designed for students who wish to advance their knowledge of anatomy and physiology to enter a post secondary program or career that is centered in the medical field. It is designed to simulate a freshman college anatomy and physiology course, the content is covered in that way. The test used is a higher education volume and the course is formatted to follow this text. The students will use real world medical examples as the basis for their learning and understanding. Through our partnership with CCBC, this course may be taught for college credit. **Prerequisite: Refer to page 8.**

**CHS Biology** 110CHS **Credit 1.0**

**Students should take Anatomy & Physiology, CHS Biology or Criminal and Forensic Science in their Senior year.**

This course will be a discussion of basic chemistry used in biology, cell biology, including mitosis and meiosis, human anatomy and physiology, and an introduction to genetics. We will explore topics covered in Freshman Biology in more depth and integrate problem solving and study skills. Some laboratory exercises will be included to re-enforce the lecture topics by giving students the opportunity to investigate the experimental aspects of biology. This course is to acclimate the students with biological concepts and to help them transition into a college/training curriculum that benefit students wishing to find a career in the medical field. (May be offered every other year) All students in CHS Biology will have the option to be enrolled in the affiliated College in High School Program. College credit will appear on the College/University transcript. **Prerequisite: Refer to page 8.**

**Criminal /Forensic Science** 111 **Credit 1.0**

**Students should take Anatomy & Physiology, CHS Biology or Criminal and Forensic Science in their Senior year.** The foundation of this course would be to showcase how science and law enforcement work together to investigate crimes, collect and analyze evidence and come to logical conclusions based on the scientific and investigative data. Hands-on, real world activities/discussions and case studies will be used to introduce the students to concepts that are used by investigators.

# Social Studies

*Students must successfully earn a minimum of 3 Social Studies credits in grades 9 - 12 in order to qualify for graduation. The following 3 courses are required for graduation.*

**American History 9** **300** **Credit: 1.0**



**American History is required for students in ninth grade.**

This course is a continuation of American History I, reviewing the Civil War and Westward Expansion, progressing into modern history. American History II explores issues that occur when a country is a world leader. Highlighting many of the key events of the 20th Century such as the World Wars, The Great Depression and The Cold War through the Bush Presidency and 9/11, this course examines American actions and the consequences that are still affecting us today.

**World History and Cultures** **301** **Credit: 1.0**



**World History and Cultures is required for students in tenth grade.** This course will give students an understanding of the past and its impact on their lives today. Students will first study the history and culture of the Western Hemisphere, focusing on Mexico and Canada. The students will then gain a better global perspective by examining several cultural regions in the Eastern Hemisphere, including Japan, China, India and the Middle East. The goal of the course is to prepare students for the ever-growing interdependence of the world in which they will live and work, and to help prepare them for their responsibilities as participating citizens of the global society.

**Political Science and Economics** **302** **Credit: 1.0**



**This course is required for students in eleventh grade (BCCTC students may take this course in their senior year).** The American Government examines the problems of democracy in the United States as well as the foundations of the American Government. It provides a detailed examination of key government concepts to include federalism, political processes, free enterprise, public policy and civil liberties within the constitutional framework.

This course also will examine the principles of Economics. Students will explore economic concepts such as scarcity, economic systems, and factors of production. Students will explore concepts such as markets and prices, income distribution, supply and demand, Gross Domestic Product, inflation and deflation.

## Required Courses

### Health and Physical Education

*Students must take physical education each year and successfully earn 1 physical education credit and a 0.5 Health credit in order to qualify for graduation.*

<b>Physical Education</b>	<b>600</b>	<b>Credit: 0.25 or .5</b>
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The Rochester Area School District requires each student to complete one (1) course of Physical Education per year (equivalent to one [1] credit) during their four (4) years of high school. During these classes, students are introduced to a variety of lifetime and team sports skills and activities

<b>Health</b>	<b>601</b>	<b>Credit: 0.5</b>
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This course offers a variety of topics that allow students to evaluate the different factors that affect their daily lives. The students will learn wellness behaviors that make healthy choices more clear. Some of the topics include: drug and alcohol education, consumer health issues, diseases, first aid and sexuality. **(This class is a graduation requirement.)**

### Personal Finance

<b>Personal Finance</b>	<b>906</b>	<b>Credit 0.5</b>
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This course is designed to prepare students for life after high school graduation with an emphasis on management of resources such as time and money. Students will explore opening bank accounts, writing checks, getting an apartment, establishing credit, downside of credit cards, creating a budget, fixed and variable expenses, paying taxes, how to read a paycheck, planning a wedding, and planning for a family. **(This class is a graduation requirement.)**

### Graduation Project

<b>Graduation Project</b>	<b>999</b>	<b>Credit 1.0</b>
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All students must complete a graduation project as required per the Rochester Area School District graduation requirements. One credit will be awarded at the completion of the project.

# Elective Courses

Students must successfully earn 6 of Elective credits in grades 9 - 12 in order to qualify for graduation.

## English Electives

**Journalism I** 1000 **Credit: 1.0**



***This course will count as an Arts and Humanities or an Elective Credit***

This elective is for students who have an aptitude for writing. Students will learn the history and purpose of news writing and will learn how to write in various styles focusing on the four different sections of *The Oracle*. Students will develop expository and creative writing skills and will also learn the fundamentals of Microsoft Publisher to study page design and layout. They are responsible for some parts of the publication of the school newspaper, *The Oracle*, during the second semester.

**Journalism II** 1001 **Credit: 1.0**

***This course will count as an Arts and Humanities or an Elective Credit***

This course is for students who have successfully completed Journalism I and will be responsible for the publication of the school newspaper, *The Oracle*.

**Analysis of Film (EVEN)** 1020 **Credit 0.5**

***This course will count as an Arts and Humanities or an Elective Credit***

This course is designed to have students look at films as pieces of literature and texts. By looking at the elements of—narrative and visual storytelling, the stages of the hero's journey and archetypes, mise en scene, acting, cinematography, , sound/music — students will look at how a theme can be created and developed by the filmmaker. The two areas of focus for this course are: an analysis of what the viewer sees on film and analysis of how the film was influenced by the time and culture in which it was made. Through taking this course, students will have a deeper knowledge of cinematic technique, cinema history, genre, or anything else a well-prepared reviewer would need. This is a semester-long course.

**Creative Writing (ODD)** 1021 **Credit: 0.5**



***This course will count as an Arts and Humanities or an Elective Credit***

Creative Writing is a half credit (0.5) Language Arts elective. In this class, students will be studying creative writing at an introductory level. Writing will be the primary focus of the course and a large portion of the class will be dedicated to poetry and student development of poetry writing. The various stages of short story writing will also be introduced and students will develop short stories. Students will also create screenplays, commercials, Public Service Announcements, and mock book jackets all while incorporating technology and vocabulary development.

**Myths and Legends (EVEN)** 1022 **Credit 0.5**

***This course will count as an Arts and Humanities or an Elective Credit***

This course focuses on the many myths and legends woven into various cultures around the world. Starting with an overview of mythology and the many kinds of folklore,

the student will learn about ancient heroes as they slay dragons and outwit the gods, follow fearless warrior women into battle and watch as clever animals outwit those stronger than themselves. They will explore the universality and social significance of myths and folklore, and see how they are still used to shape society today. This course will also explore contemporary and local legends, researching validity and origin. This is a semester-long course.

**Drama and Theater (ODD) 1023 Credit: 0.5**

***This course will count as an Arts and Humanities or an Elective Credit***

In this class students will be studying a variety of elements in order to expose and enhance theater-related knowledge and skills. The various components of acting and improvisation will be the focus of this course. Students will engage in activities that will enhance public speaking skills. While we will be reading from our theater textbooks, a significant portion of this class will also be dedicated to performance and hands-on learning.

**Women in Literature (EVEN) 1024 Credit 0.5**

***This course will count as an Arts and Humanities or an Elective Credit***

Women in Literature is a semester course for students who want to read thought-provoking literature that focuses on the experiences of adolescent girls and women. Students will examine both classic and contemporary novels, short stories, poetry and essays that express female voices from various cultures and social backgrounds. Students will participate in small group discussions, writing assignments and creative projects that relate to the themes presented in the literature. The course also examines current issues affecting women (and men) and provides opportunities for personal reflection and goal setting. Students will learn more about themselves as they explore female characters and authors.

## Social Studies Electives

**CHS Holocaust 303CHS Credit: 1.0**



This course, offered to students in **Grades 11 and 12**, will study the Holocaust years from 1933 to 1945 in full historical perspective. It will also explain the definition of genocide and review comparative genocide of the 20th century. The main focus of the class will be the Shoah, or Jewish Holocaust through. It will also touch on other topics as The Nazi Rise to Power, Anti-Semitism, Ghetto life, the Camp System, and the Foundation of the Nation of Israel. All students in CHS Holocaust will have the option to be enrolled in the affiliated College in High School Program. College credit will appear on the College/University transcript. **Prerequisite: Refer to page 8.**

**Criminal Justice 312 Credit: 0.5**



***This course will count as an Arts and Humanities or an Elective Credit***

This course provides the philosophical and historical background of the agencies that compose the criminal justice system. It focuses on the development of justice and law, crime and punishment, the administration of laws, the agencies' functions, career orientation and public relations.

**The Cold War and American Pop Culture 316 Credit: 0.5**

***This course will count as an Arts and Humanities or an Elective Credit***

This Course will study the period of time in U.S. History known as the Cold War (1946 – 1989). This Course will not only study and review the major historical events and figures during this time period, but it will show how these events had a great influence on American popular culture. Students will study the music, media, fads, trends, social movements, Television and film, and other aspects of this time in our history. The course will be broken down and studied along decade guidelines: Post-war and 1950's, 1960's, 1970's, and 1980's. Many U.S. history courses never have enough time to study in depth the United States during the Cold War period; this course is designed to do just that.

**Contemporary Issues (ODD) 313 Credit: 0.5**



***This course will count as an Arts and Humanities or an Elective Credit***

In Contemporary Issues, students will study various dynamic issues facing today's society enabling them to discover their values and responsibilities as citizens in that society. Students will utilize different learning methods to research, discuss, debate and formulate opinions on those contemporary issues.

**African-American Studies (ODD) 311 Credit: 0.5**



***This course will count as an Arts and Humanities or an Elective Credit***

This course explores the African American experience from the Middle passage to America as slaves to the present time. Students will focus on the many accomplishments and struggles during the building of America. The course will be both heartbreaking in the treatment of a people and uplifting in the accomplishments and contributions to American society.

**Military History (EVEN) 314 Credit: 0.5**



***This course will count as an Arts and Humanities or an Elective Credit***

Military history will examine military issues throughout history. It will focus on past militaries, battles and strategies employed throughout history. Since wars tend to shape the political, economic and social atmosphere of a nation it is important to understand why and where battles and wars took place. The course can also look into diplomacy, foreign affairs, intelligence work, terrorism and peacekeeping operations. **It is open to**

**Women's History (EVEN) 315 Credit: 0.5**



***This course will count as an Arts and Humanities or an Elective Credit***

This course will focus on the achievements of women throughout history. Women have often been only included as an addendum to men's history or completely ignored. This course is designed to "read between the lines" of history and explore the contributions women have made throughout the ages and discover the "hidden" history of women.



## Foreign Language Electives

### Spanish I

401

Credit: 1.0



***This course will count as an Arts and Humanities or an Elective Credit***

This course is an introduction to the Spanish language. Students will learn vocabulary and grammar essential to basic conversation. Also, they will be exposed to the geography and culture of the Spanish-speaking world. Students are expected to speak the language. Assessments for this course include written exams, tests of oral and aural proficiency, and hands-on group and individual projects relevant to the content of the course. Topics included in the first level Spanish course are: greetings, introductions, basic conversation, numbers from zero to one hundred, telling time, discussing the weather, talking about class schedules, talking about what people like to do, describing personality traits, conjugating present tense verbs, detailing classroom items, and much more. Culture lessons for this course focus on comparisons between teenagers in the Hispanic world and teenagers in the United States.

### Spanish II

402

Credit: 1.0



***This course will count as an Arts and Humanities or an Elective Credit***

This course continues the work of Spanish I. Vocabulary study includes topics like ordering a meal at a restaurant, discussing leisure activities, talking about community and local events, invitations (extending, accepting and declining), identifying rooms and objects within a home, making purchases and discussing costs, vacation terminology, and using phrases related to technology. Grammar concepts include the completion of instruction related to the present tense, and the introduction of the past tense. Students will create projects to use the language orally in a relevant way. Students are required to speak and write in Spanish. **Prerequisite: Passing grade in Spanish I**

### Spanish III

403

Credit: 1.0



***This course will count as an Arts and Humanities or an Elective Credit***

This course is a continuation of the 2<sup>nd</sup> level of Spanish. It is a course that is focused on grammar and fluency in speaking. Students will be introduced to the future and conditional tenses, and learn formal and informal commands. Literature is also a major component in this third level course. Students are expected to make consistent attempts at using the language in and out of the classroom. Emphasis is placed on the students' ability to coordinate the four language skills daily in the classroom. **Prerequisite: Passing grade in Spanish II**

### Spanish IV

404

Credit: 1.0



***This course will count as an Arts and Humanities or an Elective Credit***

This course consists of more creative work in speaking and writing. Emphasis is given to history, culture and literature in the language with continued importance placed on the four language skills.

**Prerequisite: Passing grade in Spanish III**



**French 1****421****Credit: 1.0*****This course will count as an Arts and Humanities or an Elective Credit***

Students in French I will compare cultures, discriminate and repeat sounds in French pronunciation, read and interpret, write imitatively, analyze both spoken and written phrases, and communicate effectively at a novice level. Using strategies like collaborative learning, students will role play, present dialogues, view videotapes, listen to audiotapes, and write short compositions. They will demonstrate competencies by participating in small group conversation, critique of written material, and response to verbal communication by the teacher and native speakers on audio tapes.

**French 2****422****Credit: 1.0*****This course will count as an Arts and Humanities or an Elective Credit***

Students will continue to utilize strategies and demonstrate the outcomes described in French I at an intermediate mastery level. Students will be expected to think critically in the target language and analyze and interpret more proficiently in both written and spoken French. Students will demonstrate competency by participation in guided conversation, critique of written material and response to explanations and directions in the target language.

**Prerequisite: Passing grade in French I****French 3****423****Credit: 1.0*****This course will count as an Arts and Humanities or an Elective Credit***

Students will continue to utilize strategies and demonstrate the outcomes described in French II at an intermediate mastery level. Students will be expected to think critically in the target language and analyze and interpret more proficiently in both written and spoken French. Students will demonstrate competency by participation in guided conversation, critique of written material and response to explanations and directions in the target language.

**Prerequisite: Passing grade in French II****Business/Computer Electives****Computer Applications****500****Credit: 0.5**

In this semester course, students will explore Google Suite Applications (specifically Google Docs, Slides, Sheets, Forms, Keep, and Calendar) to communicate ideas effectively, increase productivity, and enhance their digital projects. Furthermore, students will learn about the parts of the computer, basic coding, artificial intelligence, and internet safety/digital citizenship that is important in the world we live in today. This course also includes a career exploration unit that will help students identify individual goals and career interests. Finally, we discuss ways to use technology to assist students with budgeting and other components of financial literacy.

A variety of instructional strategies in this course will be implemented including class discussions, internet research, aptitude testing, hands-on learning, speed drills, and

student projects. Ultimately, students will use computer applications to gain real life skills that will help them succeed in their postsecondary lives.

**Multimedia & Design** **501** **Credit: 0.5**

Unlock your creative potential and dive into the dynamic world of desktop, graphic, and multimedia design with this hands-on high school course! Multimedia Design explores the fusion of visual arts, digital technology, and communication, equipping students with the skills to create compelling and innovative digital content. In this course, you will learn the fundamentals of design (elements, principles, color theory, typography), master key design software systems, develop projects and digital artwork, explore trends, and collaborate with your peers. A variety of instructional strategies in this course will be implemented including teacher-led lessons, hands-on learning, quizzes, and student projects.

**CHS Marketing/Advertising** **502CHS**

**Credit: 0.5**

During this semester class, students will learn the technology, professional development, customer service and key marketing foundations and functions as it builds towards student success in marketing. Students will explore the intriguing world of products, services, events, sports, fashion, and hospitality from the marketing perspective. Topics will include the four P's of marketing, product development cycle, economics, merchandising, product placement, advertising methods, and career opportunities. All students in CHS Marketing/Advertising will have the option to be enrolled in the affiliated College in High School Program. College credit will appear on the College/University transcript. **Prerequisite: Refer to page 8.**

**Yearbook Applications** **510** **Credit: 1.0**

During this full year course, students will learn multiple skills of book production including layout design, color theory, typography, modular designs, photography, caption writing, advertising sales and marketing, and yearbook financial management. This course will also involve learning a publishing software application and utilizing graphic design to create the Rochester Area Middle and High School yearbook. Students will complete much of the actual work in class; however, students will have to be able to work after school events to gather materials and information necessary for producing a quality yearbook. Students who want to make the Rochester Area School Yearbook better than ever should enroll in this course!

**CHS Accounting I** **511CHS** **Credit: 1.0**

This course, designed for students in Grades 10, 11, and 12, explains how the financial operations and records of a sole proprietorship and partnership are kept. Basic concepts, principles, and accounting procedures are introduced through following the accounting cycle. Students will also use an accounting software package for reinforcement and review. All students in CHS Accounting will have the option to be enrolled in the affiliated College in High School Program. College credit will appear on the College/University transcript. **Prerequisite: Refer to page 8.**

**CHS Entrepreneur Experience** **512CHS**

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**Credit: 0.5**

This semester-long course assists students in identifying the attributes of one's personal brand and then applying it to the entrepreneurial mindset to create value in the workplace. This course will take students through the journey of recognizing their unique set of values, skills, and traits, and guide them in developing their personal brand of creating value based upon these distinct combinations of attributes. The course will then immerse students in the actual practice of activating an entrepreneurial mindset and action - introducing them to tools and concepts by which they can apply their individual approach to the entrepreneurship method of creating opportunity, problem-solving, mobilizing resources, and generating change and impact. Students will discover how they make an innovative change, and build the capabilities by which to articulate their personal brand of value creation to the world. All students in CHS Entrepreneur Experience will have the option to be enrolled in the affiliated College in High School Program. College credit will appear on the College/University transcript.

**Prerequisite: Refer to page 8.**

**College and Career** **903** **Credit: 0.5**

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This Career Education course is designed to assist students in acquiring knowledge, understanding, and competence in all aspects of their lives in regards to the transition from high school to postsecondary education, a career or the Military. Students will identify their specific Pathway to Graduation to ensure that they are meeting all of the criteria for graduation. Students will collaborate on setting their goals for their future and work on a plan that will allow them to achieve these goals. Students will be guided through concepts of fiscal responsibility, goal-setting, applying for post-secondary schooling, jobs and the Military. The guidelines for this course are based on the Pennsylvania Department of Education Academic Standards for Career Education and Work. These are listed on the PA Department of Education website: [www.pde.state.pa.us](http://www.pde.state.pa.us).

## **Fine and Practical Arts**

**Basic Foods** **900** **Credit: 0.5**

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**This course will count as an Arts and Humanities or an Elective Credit**

This is a semester course which takes an in-depth look at Basic kitchen tools, terms, measuring and kitchen math. Emphasis is placed on nutritional values of food, appropriate cooking techniques, along with how to create a food budget, how to shop wisely and storage practices. This course uses a hands-on approach.

**Cultures and Cuisines** **901** **Credit: 0.5**

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**This course will count as an Arts and Humanities or an Elective Credit**

This is a semester course which provides an awareness of why various foreign cultures came to the United States and what they contributed to our foods, art and heritage. This course uses a hands-on approach.

**Foundations of Education** **904** **Credit: 1.0**

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***This course will count as an Arts and Humanities or an Elective Credit***

This course is a study of the historic and philosophical antecedents of the American school system and its growth, development and potential. The course may be in conjunction with a college and students may receive college credits.\*

**Senior High Band** 800 **Credit: 1.0**

***This course will count as an Arts and Humanities or an Elective Credit***

Senior High Band is a year-long course for all instrumental musicians. Students with no musical experience are welcome to register for this class as well. Class time will be utilized for rehearsals for Marching Band and Concert Band during the 1<sup>st</sup> 9 week grading period and Concert Band for all subsequent grading periods. All students enrolled in Sr. High Band are required to participate in Marching Band. Likewise, all student musicians who participate in Marching Band must be enrolled in this course. The co-curricular requirements for this course include: mid-to late July rehearsals, 2 after-school weekly rehearsals from August through October, 2 weeks of summer band camp, all varsity football games, competitions, parades and 2-3 evening concerts. The band director will provide a detailed schedule each spring for the upcoming marching band season. This is a performing ensemble; therefore, attendance is mandatory at all practices and performances unless otherwise approved by the band director.

**Senior High Chorus** 801 **Credit: 1.0**

***This course will count as an Arts and Humanities or an Elective Credit***

Students will learn to sing different styles of music and improve their singing voices. There are two concerts a year. Attendance at all events is a mandatory requirement unless approved by the director and/or Administration. Senior High Chorus is for students in grades 9 – 12 who show an interest in music and enjoy singing.

**Senior High Chorus/Band** 802 **Credit: 1.0**

***This course will count as an Arts and Humanities or an Elective Credit***

This course is designed for students who wish to enroll in both band and chorus. **You must register for both courses (813 and 814).**

**Drawing I & II** 812 813 **Credit: 0.5**

***This course will count as an Arts and Humanities or an Elective Credit***

I - This course will introduce students to a variety of drawing media and techniques in order to create and communicate with visual images. Topics include sources of inspiration ranging from traditional artists to societal, local and contemporary influences. Techniques include basic elements of art and design principles, as well as strategies to increase drawing ability.

II - Students in Drawing II will expand on basic skills and techniques learned in Drawing I to advance student ability and talents. Additional mediums and graphic design will be implemented to the curriculum, and will include increased artistic exposure.

**Painting I & II** 814 815 **Credit: 0.5**

***This course will count as an Arts and Humanities or an Elective Credit***

I - This course will introduce students to color theory, color mixing and technical painting skills. Students will experiment with various media, focusing primarily on watercolor and acrylic. Artists and Art movements - from historical to contemporary - will be discussed

in relation to appropriate painting techniques and modeling purposes.

II - Students in Painting II will focus on technique review and enhancement of student ability and talents. Graphic design will be incorporated through use of apps related to specific painting techniques.

**3-D Art Forms I & II** **816 817** **Credit: 0.5**

***This course will count as an Arts and Humanities or an Elective Credit***

I - Students will explore how to effectively communicate through three-dimensional forms using a variety of traditional and unconventional materials. Basic clay hand-building techniques will be used to create functional and sculptural forms. Sculptural artists and art movements throughout history will be discussed and students will learn the skills necessary to manipulate clay, wire, papier-mâché, metal, cloth, and paper using additive and subtractive processes. The fields of architecture and interior design will also be introduced.

II - Students in 3D Art II will expand on basic skills and techniques learned in 3D Art I to advance student ability and talents. Students will be encouraged to work collaboratively to incorporate 21st century skills and technology into class projects, as well as to create original pieces and project designs.

**Art History** **818** **Credit: 0.5**

***This course will count as an Arts and Humanities or an Elective Credit***

Art History is a cross curricular, half year course (.5 credit) that is a survey course of notable artists and their works, from ancient pieces to contemporary art. Students will learn about societal influences and connections to art pieces and movements, as well as biographical information about the artists, their countries and cultures. Students will study Art history through 2D Art, 3D installations, readings, pictures, film, and experiences.

## **Seminar Courses**

***The seminar courses will count as elective credits.***

**Freshman Seminar** **902** **Credit: 0.5**

**Freshman Seminar is required for students in ninth grade.**

This is a year-long career education course that meets every other day. It is designed to assist students in acquiring knowledge, understanding and competence in all aspects of their lives as well as a comprehensive review of the foundational skills of Algebra in preparation for the Keystone Exams. Strategies will be provided to enable students to identify their learning styles, key money management principles, decision making skills, and how to incorporate these concepts into other courses for more success. In Career Development, students recognize their strengths, needs, talents, skills, and interests to assist in making better and realistic decisions about their future. The guidelines for this course are based on the Pennsylvania Department of Education's Academic Standards for Career Education and Work.

**Sophomore Seminar** **905** **Credit: 0.5**

**Sophomore Seminar is required for students in tenth grade.**

This is a year-long career education course that meets every other day. This course is designed to enhance and strengthen students' approach to college and career development and provide strategies for future standardized testing. In this course, students will receive a comprehensive review of the foundational skills of Literature and Biology in preparation for Keystone Exams. Students will research and explore future careers. Additionally, students will develop skills to write job applications, cover letters and resumes. The guidelines for this course are based on the Pennsylvania Department of Education's Academic Standards for Career Education and Work.

## Dual Enrollment

The Rochester Area School District in partnership with the Community College of Beaver County (CCBC) enables students to enroll in college courses. Students who successfully complete these courses will earn transferable college credits. Students are responsible for covering the costs of these courses and transportation to and from CCBC. Dual enrollment is offered to enhance the opportunities available to our students, not to replace Rochester High School courses. Through dual enrollment, students will be exposed to college-level coursework and expectations before starting their freshman year of college. The dual enrollment requirements are listed below:

- Dual enrollment students should be limited to 10th, 11th, and 12th grade students.
- GPA of at least 2.8
- The number of college courses completed should not exceed 2 courses per semester.
- The student must meet the prerequisites for the course to be approved for registration.
- CCBC may establish additional criteria for admission into courses.

## College in High School

College in High School (CHS) offers Rochester High School students the opportunity to earn both high school and college credit in courses taught in our own classrooms. College in High School is an academically rigorous program for students seeking an intellectual challenge within a supportive high school environment. Students are responsible for any fees associated with earning CHS credits. Credits assigned may be weighted. For additional information on the CHS program, please see a high school counselor. College in High School course as well as number of college credits for each course are as follows:

<b><u>COURSE</u></b>	<b><u>CR</u></b>
CHS Honors English 12	3
CHS Calculus	4
CHS Statistics & Probability	4
CHS Chemistry	4
CHS Holocaust	3
CHS Biology	3
CHS Financial Accounting 1	4
CHS Entrepreneur Experience	4

Currently we are partnered with Community College of Beaver County, Robert Morris University, University of Pittsburgh, and Seton Hill University

## **Community College of Beaver County High School Academies**

CCBC's High School Academies are providing Western Pennsylvania's young people with high-impact educational experiences to prepare them for careers that address priority workforce needs of the region. The CCBC High School Academy program is an innovative dual enrollment model in which students have the opportunity to explore careers in areas of workforce priority for the region while receiving hands-on instruction from college faculty in labs and classroom environments that stimulate critical thinking and problem-solving skills.

Students who devote two years of study to the program will have the opportunity to graduate from high school having completed up to one year of credits toward CCBC's associate degree programs, or they can transfer the credits to other colleges and universities. Through partnerships with more than 600 four-year college programs nationally, many academy graduates can complete a bachelor degree in three years or less.

Students enrolled in a program will spend part of their school day at CCBC's facilities completing their dual enrollment coursework. The coursework students will take at CCBC will be counted as elective credits at Rochester High School. The cost for the Academies is the responsibility of the student and is based on current CCBC tuition and fee rates. For more information, please go to [www.ccbc.edu](http://www.ccbc.edu)



### **Aviation Academy**

Are you ready to start the exciting journey of becoming an aviation professional? Let your future take flight by joining the CCBC Aviation Academy. Through the Academy, high school students in grades 11 and 12 at participating school districts have the opportunity to spend a portion of their high school day on a CCBC campus preparing for a career as a professional pilot, air traffic control, aerospace management, and UAV (Unmanned Aerial Vehicle) operator. Students who devote 2 years to this program have the opportunity to graduate from high school with 26 credits toward their associate degree.

**Requirements:** GPA of 2.5, good attendance and conduct, recommendation from principal or guidance counselor. High School prerequisite: Algebra I



## **Health Academy**

The CCBC Health Academy is for high school students in grades 11 and 12 at participating high schools who are interested in careers in nursing, practical nursing, radiologic technology, physical therapy, respiratory therapy, nurse practitioner, physician assistant, nurse anesthetist, physician and more. Students have opportunities to explore careers in these high-demand fields, receive hands-on STEM instruction from college faculty members in labs and classroom environments while acquiring skills for effective leadership. Additionally, students who devote two years of study will have the opportunity to graduate from high school with up to 28 college credits completed in CCBC's associate degree programs. Students who successfully complete all of the coursework will be prepared to continue their studies toward an associate degree in nursing, radiologic technology, a diploma in practical nursing at CCBC or transfer the listed credits to a healthcare profession of their choice.

**Requirements:** GPA of 2.75, good attendance and conduct, recommendation from principal or guidance counselor

**High School prerequisite:** Biology with lab, Chemistry with lab and Algebra 1



## **STEM Academy**

The CCBC STEM Academy is for high school students in grades 11 and 12, at participating high schools, who are interested in careers in Math, Science and Technology related fields. Students have opportunities to explore careers in these high-demand fields and receive hands-on STEM instruction from college faculty members in labs and classroom environments while acquiring critical thinking and problem-solving skills. Additionally, students who devote two years of study to the program will have the opportunity to graduate from high school with up to 28 college credits toward CCBC's associate degree programs or transfer the credits to other colleges and universities. Students will be prepared to work in many dynamic industries including oil & gas, wastewater treatment, chemical, nuclear and steel.

**Requirements for Engineering:** GPA of 3.0, good attendance and conduct, recommendation from principal or guidance counselor

**High School Prerequisite:** Complete Algebra 2 with at least a B and Chemistry with at least a C in their Sophomore year. Junior year they must pass Pre-calc with at least a B.

**Requirements for Coding or Process Technology:** GPA of 2.5, good attendance and conduct, recommendation from principal or guidance counselor.





### **Criminal Justice Academy**

Do you have a passion for serving and protecting? Are you interested in a career in law enforcement? Take custody of your future by joining the CCBC Criminal Justice Academy. Through the Academy, high school students in grades 11 and 12 at participating school districts have the opportunity to spend a portion of their high school day on a CCBC campus preparing for a career in the Criminal Justice field. Students who devote 2 years to this program have the opportunity to graduate from high school with 28 credits toward their associate degree.

**Requirements:** GPA of 2.0, good attendance and conduct, recommendation from principal or guidance counselor



### **Mascaro Construction Academy**

You'll learn technical skills that can then be applied to the planning, design, and construction of a project, from beginning to end. You'll gain hands-on experience in our classrooms and construction learning labs, along with being taught in real-world settings. As a CCBC Mascaro Construction Academy student, you'll have the opportunity to earn up to 28 college credits while still taking your high school classes.

**Requirements:** Join as a junior or senior, GPA of 2.0, good attendance and conduct, recommendation from principal or guidance counselor



### **Education Academy**

Do you want to inspire learning? Do you desire to empower lives through a career in teaching? Enroll in the Education Academy to become a future educator. Through the Academy, high school students in grades 11 and 12 at participating school districts have the opportunity to gain hands-on experience in diverse educational settings and learn how to prepare developmentally appropriate lessons and learning environments. As an Education Academy student, you will have the opportunity to earn up to 28 college credits while still working towards your high school diploma.

**Requirements:** GPA of 2.5, good attendance and conduct, recommendation from principal or guidance counselor



## **Beaver County Career & Technology Center (BCCTC)**

### **Beaver County Career & Technology Center Information**

- The BCCTC is an extension of the Rochester Area School District, which offers vocational and technical courses.
- The coursework that students take at the BCCTC will count as elective credits at Rochester High School.
- Each occupational program prepares students to enter the job market with an occupational skill.
- Any tenth-grade student may apply for admission by completing a Rochester High School CTC application form and a BCCTC application form (ninth grade for Cosmetology).
- Student selection will be based upon interest, aptitude, achievement, attitude, attendance and school recommendation.
- Each course area has a limited quota per year.
- Students selected are expected to complete the full two-year program.
- The Cosmetology Program requires 1,250 total hours of instruction, 280 hours of which must be completed at a time other than regular school hours. Students enrolling in Cosmetology should start as 10th-grade students to finish the required hours for Licensure.
- Attendance is extremely important. Both attendance and tardies will be monitored and the district's attendance policy will be followed. **Failure to attend the CTC may result in removal from the program.**
- Transportation to and from the CTC is provided. Students are not permitted to drive during regular school hours unless under certain circumstances and approved by the appropriate Rochester High School and BCCTC Administrators.
- The Beaver County Career & Technology Center is an equal opportunity education institution and will not discriminate on the activities, programs or employment practices as required by Title VI, Title IX and Section 504 student selection processes also follow the above criteria.
- The BCCTC does not run on the same schedule as Rochester School District. On occasion, Rochester BCCTC students may be required to attend BCCTC on days when Rochester School is not in session; or, there may be other occasions that BCCTC students may have a half-day of attendance at Rochester School when BCCTC is not in session.

### **Beaver County Career & Technical Center Transfer Policy**

Students applying to Beaver County Career and Technical Center (CTC) should be aware that once they start at the CTC, it is strongly recommended that students remain at the CTC for the completion of the year. Since course grades and curriculum cannot be determined on a part-semester basis, students transferring back to the district shall complete the semester at the CTC.

# Beaver County Career and Technology Program Information

## **AUTOMOTIVE TECHNOLOGY**

**Credit: 3.0**

An instructional program that prepares individuals to apply technical knowledge and skills to engage in the servicing and maintenance of all types of automobiles and light trucks. This program includes computer analysis of malfunctions in electrical systems, cooling systems, brake systems, drivetrain and suspension systems through the use of technical repair information. State Inspection and Emission Inspection Certifications are offered.

## **BUSINESS INFORMATION**

**Credit: 3.0**

The Business Information Systems' program combines studies in computer information systems with business/management courses, which serves as a bridge between technical and business communities. This bridge connects students to exciting careers that use technology. Students who study in this program for two years will graduate with a strong understanding of computers in the business world, possess marketable skills, and be able to pass industry-level certification exams, which makes them more credible job candidates.

## **CARPENTRY**

**Credit: 3.0**

The Carpentry program prepares individuals to apply technical knowledge and skills to layout, fabricate, erect, install and repair structures and fixtures using hand and power tools. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques.

## **COLLISION REPAIR TECHNOLOGY**

**Credit: 3.0**

The Collision Repair Technology program is an instructional program that prepares individuals to apply technical knowledge and skills to repair damaged automotive vehicles such as automobiles and light trucks. Students learn to examine damaged vehicles and estimate the cost of repairs; remove, repair and replace upholstery, accessories, electrical and hydraulic windows, and seat operating equipment and trim to gain access to vehicle body and fenders; remove and replace glass; repair dented areas; replace excessively damaged fenders, panels and grills; straighten bent frames or auto body structures using hydraulic jacks and pulling devices; and file, grid, sand repaired surfaces using power tools and hand tools. Students refinish repaired surfaces by painting with a primer and finish coat.

## **COMMERCIAL ART**

**Credit:3.0**

Commercial Art & Design is an instructional program in the applied visual arts. The program prepares individuals to use artistic techniques to effectively communicate ideas and information to business and consumer audiences via illustrations and other forms of media. Commercial Art includes instruction in concept design, layout, airbrush and techniques such as engraving, 3-D design, silkscreen, drawing, cartooning, painting, and computer graphics.

**COSMETOLOGY****Credit: 3.0**

Cosmetology is a three-year program designed to train students to learn a variety of services related to the care of hair, skin, and nails. Students are expected to have strong attendance to become eligible to take the Pennsylvania State Board of Cosmetology Exam. Instruction includes the latest techniques in hair cutting, styling, chemical applications, coloring and Esthetics. Manicuring, pedicuring, make-up and ethnic hair care are included. Specific instruction of sanitation and disinfection will be presented to follow the steps that address the specific tasks according to Pennsylvania State Laws and Regulations. Students will be introduced to Employment Skills, Salesmanship, and Business Ethics necessary for professional development. The State Exam preparation curriculum will follow the guidelines set for Pennsylvania State Board of Cosmetology Regulations. According to the PA State Board of Cosmetology, students must have met the mandatory hours to take the State Board Exam and complete 1250 hours for licensing.

**CULINARY ARTS****Credit: 3.0**

Culinary Arts is an instructional program that prepares students for employment related to institutional, commercial or self-owned food establishments or other food industry occupations. Instruction and specialized learning experiences include theory, laboratory and work experience related to planning, selecting, preparing and serving of quantity food and food products; nutritive values; use and care of commercial equipment; safety; and sanitation precautions. Instructional skills are provided to individuals desiring to become employed in all areas of the food service industry at entry level.

**ELECTRICAL OCCUPATIONS****Credit: 3.0**

An instructional program that prepares individuals to apply technical knowledge and skills necessary to install, operate, maintain and repair electrically-energized residential, commercial, and industrial systems, AC motors, and electrical distribution panels. Instruction emphasizes practical application of mathematics, science, circuit diagrams, use of electrical codes, and includes sketching and other subjects essential for employment in electrical occupations. Reading and interpretation of commercial and residential construction wiring codes and specifications, installation and maintenance of wiring, service and distribution networks within large construction complexes area also critical components of the program.

**GRAPHIC ARTS & PRINTING****Credit: 3.0**

Graphic Arts is an instructional Program that generally prepares individuals to apply technical knowledge and skills to plan, prepare and execute commercial and industrial visual image and print products using mechanical, electronic and digital graphic and printing equipment. Students learn desktop publishing, layout, composition, presswork and bindery as well as photography, flexography, lithography, photoengraving and other graphic arts techniques. Emphasis is on typographical layout and design using computer graphics, photo typesetting, camera and plate making, offset preparation and operation, paper cutting, ink and color preparation and dynamics and airbrush and screen printing production.

**GREENHOUSE/LANDSCAPING****Credit: 3.0**

All students are trained in a general curriculum, studying subjects such as plant growth and identification, soil science, greenhouse management, and small business development.

**HEALTH OCCUPATIONS****Credit: 3.0**

The Health Occupations instructional program is designed to prepare individuals for entry-level employment in a minimum of three (3) related health occupations under the supervision of a licensed healthcare professional. Instruction consists of core course content with clinical experiences in one or two health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and physiology, medical terminology, legal and ethical aspects of health care and communications, and at least three (3) planned courses for the knowledge and skills for the occupational area such as medical assisting, ward clerk, nursing assisting, etc. Students who successfully complete the certifications offered will be eligible for advanced standing with the Community College of Beaver County in the Multi-Skilled program, and lab hours once admitted to the Nursing program, and twenty-four 24 credits in the Associate of Science in Health Science degree program.

**HVAC-R****Credit: 3.0**

The Heating, Ventilation, Air Conditioning and Refrigeration program is an instructional program that prepares individuals to apply technical knowledge and skills to install, repair and maintain commercial and domestic heating, air conditioning and refrigeration systems. Instruction includes theory and application of basic principles involved in the conditioning of air (cooling and heating); filtering and controlling humidity; operating characteristics of various units and parts; blueprint reading; use of technical reference manuals; the diagnosis of malfunctions, overhaul, repair and adjustment of units and parts such as pumps, compressors, valves, springs and connections; and repair of electric/electronic and pneumatic control systems.

**LOGISTICS & MATERIALS MGMT****Credit: 3.0**

The Logistics & Materials Management class is an instructional program that prepares individuals to manage and coordinate logistical functions in an enterprise and to undertake the responsibilities associated with receiving, storing, shipping, controlling and distributing products and materials and the various systems and record keeping pertaining to these operations.

**MACHINE TOOL TECHNOLOGY****Credit: 3.0**

The Machine Tool Technology is an instructional program that prepares individuals to apply technical knowledge and skills in all aspects of shaping metal parts. Instruction involves making computations relating to work dimensions, tooling and feeds and speeds of machining. Emphasis is placed upon bench work and the operation of lathes, power saws, shapers, milling machines, grinders, drills and computer operated equipment (CNC and CIM). Instruction also includes the use of precision measuring instruments such as layout tools, micrometers and gauges; methods of machining and heat treatment of various metals; blueprint reading; and the layout of machine parts.

Instruction prepares students to operate all types of hand and computer controlled machines.

### **MASONRY AND BRICKLAYING**

**Credit: 3.0**

Masonry/Bricklaying is an instructional program that prepares individuals to apply technical knowledge and skills in the laying and/or setting of brick, concrete block, glass block, hard tile, marble and related materials, using trowels, levels, hammers, chisels, and other hand tools.

### **VETERINARY ASSISTANT**

**Credit: 3.0**

The Veterinary Assistant program prepares students to work in an entry level position in a veterinary practice. This program also provides a solid educational foundation in preparation for a postsecondary Veterinary Technology degree.

### **WELDING**

**Credit: 3.0**

Welding is the most common way of permanently joining metal parts. In this process, heat is applied to metal pieces, melting and fusing them to form a permanent bond. Because of its strength, welding is used in shipbuilding, automobile manufacturing and repair, aerospace applications, and thousands of other manufacturing activities. Welding also is used to join beams when constructing buildings, bridges and other structures and to join pipes in pipelines, power plants and refineries.

## **Work Release Program**

Seniors who have a minimum of 23 credits as a senior are eligible to apply for the work release program. Applications are available AFTER the first grading period of their senior year. Seniors must be passing all classes with a 70% or better during the first grading period, have no more than 4 absences, no more than 3 tardies to school, and no serious discipline reports. After work release is granted, students must maintain a similar absence, attendance, academic, and discipline record. Continuation of the work release program throughout the year is at the discretion of the administration and the guidance department.

## **NCAA Quick Reference Guide**

[Want to Play College Sports? - NCAA.org](http://www.ncaa.org)

[ONE OPPORTUNITY. LIMITLESS POSSIBILITIES.](#)

[DIVISION I ACADEMIC REQUIREMENTS](#)

[DIVISION II ACADEMIC REQUIREMENTS](#)

[GUIDE FOR THE COLLEGE-BOUND STUDENT-ATHLETE](#)