

CARO HIGH SCHOOL

COURSE DESCRIPTIONS 2024-2025



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CARO HIGH SCHOOL

Caro High School is on a trimester schedule. A trimester schedule consists of five classes, each meeting for approximately 73 minutes for 12 weeks. There are three trimesters per school year. Most core classes are required for two of the three trimesters and most elective classes are one trimester long. Included in this booklet is a description of each class offered for you to use as a guide in planning your next four years.

POLICY ON SCHEDULE CHANGES

After students register for classes, a master schedule is built to reflect these requests. Because of this, schedule changes are kept to a minimum and are done at the discretion of the Guidance Counselor and Principal. All requests must be made to the Guidance Counselor by the 3rd day of the trimester in order to be considered. Class size, graduation requirements, rearrangement of schedule are some of the factors considered when determining if the change will be made. If a class is scheduled for the year, teacher and parent permission are needed.

GRADUATION REQUIREMENTS

To graduate from Caro High School, a student must:

1. Be enrolled and have regular attendance in Caro High School for five (5) classes during grades 9-12. Exceptions must be approved by the building principal and/or Board of Education.
2. Earn a total of 28 credits to graduate.
3. Earn the required credits in the following areas:
 - Four (4) credits of English.
 - Four (4) credits of Math, which must include Algebra I, Geometry, Algebra II, and one additional math or math-related credit in their senior year.
 - Three (3) credits of Science which must include Biology. The second credit must include Agricultural Science, Anatomy, Chemistry, Physical Science, or Physics. The third credit shall include an additional science credit, AP Computer Science, or a CTE program that integrates Science. The third credit may be exchanged for the completion of a formal CTE program.
 - Three (3) credits of Social Studies which must include: United States History, Government, Economics & Personal Finance, and World History.
 - One (1) credit of Speech or Debate.
 - One-half ($\frac{1}{2}$) credit of Physical Education. Credit may also be earned through the completion of one season of participation on a high school athletic team or one year of successful participation in Band or Choir.
 - One-half ($\frac{1}{2}$) credit of Health.
 - One (1) credit of Visual, Performing, or Applied Art.
 - Two (2) credits of a single World Language. An additional credit of Visual, Performing, Applied Art, or a CTE program can be exchanged for the second World Language credit.
4. Take the required State assessment as determined by Caro High School. Modifications to the above requirements may be made through a Personal Curriculum. Contact the guidance counselor for additional information.

Sample Academic 4 Year Plans

This example outlines a schedule with the highest academic rigor.

Freshmen	Sophomore	Junior	Senior
English 9 A	English 10 A	AP English Language	AP English Literature
English 9 B	English 10 B	AP English Language	AP English Literature
Geometry A	Algebra II A	AP English Language	AP English Literature
Geometry B	Algebra II B	AP Precalculus	Calculus A
Biology A	Algebra II C	AP Precalculus	Calculus B
Biology B	Chemistry A or Physics A	AP Precalculus	World History A
World Language A	Chemistry B or Physics B	Science**	World History B
World Language B	World Language A	Science**	
Speech A or Debate	World Language B	AP Government	
Speech B	AP US History	AP Government	
Health	AP US History	AP Government	
PE*	AP US History	Economics	

This example outlines a schedule with minimal academic rigor

Freshmen	Sophomore	Junior	Senior
English 9 A	English 10 A	English 11 A	English 12 A
English 9 B	English 10 B	English 11 B	English 12 B
Algebra I A	Geometry A	Algebra II A	Math
Algebra I B	Geometry B	Algebra II B	Math
Algebra I C	Biology A	Science A **	World History A
Physical Science A	Biology B	Science B **	World History B
Physical Science B	Speech A or Debate	Government	
Foreign Language A	Speech B	Economics	
Foreign Language B	US History A		
Health	US History B		
PE*			

*Completion of 1 season of participation on a high school athletic team or 1 year of band or choir may be exchanged for the PE credit.

**Choices for the third credit of science are: Agricultural Science, Anatomy, Chemistry, Physical Science, Physics, AP Computer Science, or a CTE program that integrates science. The third science credit may be exchanged for the completion of a formal CTE program.

TESTING OUT OF A CLASS

In compliance with Public Act 335, Caro High School hereby establishes guidelines to provide criteria for testing out of a class for credit. This program is available to all students with no fees or added charges. By law, Government and P.E. classes are not included. Special Education students must follow their I.E.P. process. A copy of the law is cited below:

For a student to earn credit through the testing out procedure, the student **must**:

1. Complete steps 1 & 2 listed below within the timelines.
2. Earn a 79% or better on the required work.

The student who successfully completes the above requirements will receive a grade of credit on their transcript. Testing out will not fulfill any of the required 28 credits for graduation from Caro High School. Testing-out credit will not count in the student's grade point average. A student may choose one class per trimester for the purpose of testing out for a course credit.

Step 1: Pick up, complete, and return the application within the first two weeks of March.

Step 2: Meet with the Department Chair of the selected course to determine the testing-out requirements and timelines.

WEIGHTED GRADES

Advanced Placement classes will be weighted. Hence a student who receives an "A" in an AP class would have 5.0 points averaged into their GPA instead of 4.0. An "A-" grade equals 4.67 points; "B+" equals 4.34; "B" equals 4.0 and so forth.

DUAL ENROLLMENT

Through the Postsecondary Enrollment Options Act ([PA 160](#)) Caro High School will pay a portion of the tuition for eligible students to take dual enrollment, college classes. Eligibility criteria as enrollment and credit requirement information are available in the Guidance Office. Additional information [HERE](#).

ACADEMIC ACHIEVEMENT HONORS

ACADEMIC LETTER PROGRAM

The academic letter is to be awarded to a student based on his/her cumulative grade point average according to the criteria outlined below for each class. The sliding scale is designed to reward students who have high academic averages and also to provide an incentive for a student to work toward.

- The student will be awarded a letter at the end of the fifth trimester if a grade point average of 3.5 or higher has been achieved.
- The student will be awarded a letter at the end of the eighth trimester if a grade point average of 3.3 or higher has been achieved.
- The student will be awarded a letter at the end of the eleventh trimester if a grade point average of 3.2 or higher has been achieved.

A student will be awarded only one letter. Students who have received a letter at the end of their fifth trimester will receive a medal at the end of the eighth trimester, provided they still meet the standard for that step, and a plaque at the end of the eleventh trimester, provided they still meet the standard for that step. A student receiving a letter at the end of the eighth trimester will receive a medal at the end of the eleventh trimester, provided they meet the standard for that step.

NATIONAL HONOR SOCIETY

NHS membership is awarded to eligible juniors and seniors. Candidates are required to maintain a 3.5 (B+) Grade Point Average and to write a 125-word typed paper to be considered for membership. Candidates who meet the grade point average requirements are evaluated by a faculty council. The student's character, leadership, and service activities are evaluated by the staff, coaches, and administrators. Induction into the National Honor Society is based on a combination of the student's grade point average and character evaluations. A minimum of twenty (20) hours of community service is required every six months. A six months' time period is defined as July-December and January-June.

HIGH HONOR AND HONOR CORDS

To receive High Honor cords for graduation, students must earn a cumulative weighted GPA of 3.5 or higher. Students achieving above a 3.0 cumulative weighted GPA qualify for Honor status and will receive Honor cords for graduation. High Honor and Honor cords will be distributed at the Senior Honors Program. Graduating Seniors may also wear NTHS honor cords earned at the Tuscola Technical Center, if applicable, No other cords may be worn without prior administrative approval.

VALEDICTORIAN AND SALUTATORIAN

The Valedictorian(s) and Salutatorian(s) will be determined using the formula $((\text{GPA} \times 250) + (\text{SAT}/1.6))$. The resulting score will be used to rank students in the Senior Class and the student with the top score (inclusive of ties) will be named Valedictorian. The student with the next highest score (inclusive of ties) will be named Salutatorian. The GPA used will be the student's overall weighted GPA following the completion of the 2nd Trimester of his/her Senior Year. The SAT score used will be the best score earned by the student (the final testing date considered will be the December test date). Students must also achieve High Honor status to be considered for this distinction.

SENIOR SCHOLARS

Caro High School utilizes the formula $((\text{GPA} \times 250) + (\text{SAT}/1.6))$ to recognize the highest academic achieving graduates with the distinction of Senior Scholar. All students who achieve a formula score of 1700 or greater will be recognized as a Senior Scholar. A score of 1699 or greater, but less than 1700 will not be rounded up. The GPA used will be the student's cumulative weighted GPA following the completion of the 2nd Trimester of his/her Senior Year. The SAT score used will be the best score earned by the student (the final testing date considered will be the December test date). Students must achieve High Honor status (minimum 3.5 cumulative weighted GPA) to be considered for the distinction of Senior Scholar.

For example, a student with a 3.85 GPA and a 1200 SAT score earns a formula score of 1712.5.

$$((3.85 \times 250) + (1200 / 1.6)) = 1712.5$$

COMMENCEMENT

In order for a student to be eligible to participate in all graduation ceremonies, the student must have met all graduation requirements prior to the day before graduation. In addition, all fees must be paid in the high school office. Caro Community Schools reserves the right to exclude a student from all graduation ceremonies for disciplinary reasons. Caps and gowns will not be distributed until all of the above conditions have been verified as met

#101	U.S. History	2 trimesters	1 credit	10
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A – In this course, students will study a chronological overview of U.S. History from the late 1870's to the end of the Great Depression. Topics that will be addressed include: Industrialization in America, the Progressive Era, WWI, the Roaring Twenties, the Great Depression and the New Deal.

B - In this trimester, students will study a chronological overview of U.S. History from the start of World War II to the Civil Rights Movement of the 1950s and 1960s. Topics that will be addressed include: WWII, the Cold War, the Civil Rights struggle, the Vietnam Era, the fall of Communism, September 11, 2001 and the Iraq situation.

#102	U.S. Government	1 trimester	½ credit	11
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In this course, students will examine the foundations of democracy as well as the structure and function of our political systems using the six basic principles of the constitution as the foundation for this class. Major emphasis will be placed on the structure of government and the importance of participation by citizens in the political process. The overriding goal is to produce citizens who understand their role in government and are willing participants.

#103	Economics	1 trimesters	1/2 credit	11
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This trimester course introduces the discipline of economics. The focal point of the course is the study of human wants in relationship to limited resources. Students deepen their understanding of basic economic concepts and apply them to national and international problems. In addition, students focus on four content areas: the market economy (microeconomics), the national economy (macroeconomics), the international economy, and personal finance. Students use their knowledge of economics to make informed decisions as consumers and to participate as citizens in deciding matters of economic policy.

#104	World History	2 trimesters	1 credit	12
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A – In this course, students will be studying six specific units of World History, including: Age of Exploration, Absolutism and Revolution, Industrial Revolution, Nationalism and the spread of Democracy, the Age of Imperialism, and a comparative look at the major world religions.

B – In this course, students will also be studying six specific units of World History, including: World War I and the Russian Revolution, the World Between the Wars, World War II, the Cold War Era, New Nations Emerge, and the World Today.

Course Descriptions

Social Studies Department

#121	AP American History	3 trimesters	1 ½ credits	10-12
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In this course, students will study American History from our country's early beginnings to the current era. The element of time is essential in this course, as the cumulative test over the course material is administered during the first week of May. Self-motivation, excellent reading and writing skills, along with a willingness to devote considerable time to homework and studying are necessary for success.

Emphasis is placed on critical and evaluative thinking skills, writing essays and interpretation of primary source documents. The Advanced Placement course in American History should make demands on students' equivalent to those in any introductory college course.

#122	AP European History	3 trimesters	1 ½ credits	12
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The AP European History course focuses on developing students' understanding of European history from approximately 1450 to the present. The course has students investigate the content of European history for significant events, individuals, developments, and processes in four historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. Self-motivation, excellent reading and writing skills, along with a willingness to devote considerable time to homework and studying are necessary for success. The Advanced Placement course in European History should make demands on students' equivalent to those in any introductory college course.

#123	AP U.S. Government & Politics	3 trimesters	1 ½ credits	11-12
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The AP U.S. Government and Politics course involves the study of democratic ideas, balance of powers, and tension between the practical and ideal in national policymaking. Students analyze and discuss the importance of various constitutional principles, rights and procedures, institutions, and political processes that impact us as citizens. The element of time is essential in this course as the cumulative test over the course material is administered early May. Self-motivation, excellent reading and writing skills, along with a willingness to devote considerable time to homework and studying are necessary for success. Emphasis is placed on critical and evaluative thinking skills, writing essays and interpretation of primary source documents. The Advanced Placement course in U.S. Government and Politics should make demands on students' equivalent to those in any introductory college course.

#138	Women's Studies Through the Lens of History	1 trimester	½ credit	10-12
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The main focus of this elective course will be women and their societal advancement through American History. Discussion of the status of women in a more global perspective will occur. We will examine the experiences and contributions of diverse groups of women in American society. This course will provide knowledge about the social role of women and their involvement in areas such as health, history, and political activism. The course will also provide knowledge about gender stereotypes and how this affects the learning process.

Course Descriptions

Social Studies Department

#139	Cold War Connections	1 trimester	½ credit	10-12
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In this elective course, students will have the chance to study a chronological overview of US History from the start of the Cold War through the end of the Vietnam Conflict. Students will then analyze the effects of this time period and how it has shaped the US even into the 21st century. Topics that will be addressed include: Cold War, Korean War, Counterculture and movements of the 60's, Music & culture of the 50's – 70's, Vietnam War and the effects all these have had on the US through today.

#140	The World of Map Making	1 trimester	½ credit	9-12
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Do you have an interest in maps? An interest in fabrics? If yes to both, this class may be for you. The intersection of map making and fabrics are used for the basis of this class. You will create a map using a variety of online platforms to create your original map – print it – and it will become a pattern for creating your original piece. You will create the earth's surface with a variety of fabrics and decide if you want to add buildings, trees, rivers, roads, fencing, etc. The map will be uniquely yours! The student who is interested in designing with fabric and curious about the possibilities of map creation is the intended audience! See Ms. Hammer with any questions.

Course Fee: \$25 is required for individual projects.

#142	History Through Film	1 trimester	½ credit	10-12
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In this elective course, students will study History from a wide range of topics through the use of film as a guide. Students will study a topic or event in history, watch a film on the topic, and, finally, research the accuracy of the film. Students will actively participate in research, writing, and other critical analysis related to the film, the event's place in history, and its impact on society. Topics that will be addressed include: Ancient History, the Revolutionary War, the Civil War, the Old West, World War I, World War II, the Civil Rights Movement, along with any other topics not mentioned.

#143	Presidential Elections	1 trimester	½ credit	10-12
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This class is designed to examine the depth and complexity of US presidential elections. Cultural movements, political parties, interest groups, and many other factors that influence elections will be covered. Along with these ideas, we will also analyze key presidential candidates and their opponents, including: Jefferson v Burr, Lincoln v Douglas, Nixon v Kennedy, Bush v Gore, and more. As one of the culminating activities, we will plan and implement a school-wide federal election based on the current candidates.

#146	Current Events	1 trimester	½ credit	9-12
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This class is designed to provide students with the opportunity to discuss, understand, and explore local, national, and international, political, economic and social issues in a respectful, meaningful, and active way. Throughout the trimester, students will stay up to date on current issues and trends. Because the subject of this class is "contemporary," topics will vary considerably depending on the current news cycle and may be taken for more than one trimester. This course uses news magazines, online media, cartoons, and newscasts to support class discussion. Students will be challenged to

respectfully defend their opinions (while acknowledging the rights of others to hold an opposing one) on many different issues.

#147	World Geography	1 trimester	½ credit	9-12
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Students will examine the relationships among people, places and environments that result in geographic patterns on the Earth using the 5 geographic themes. Students will compare how components of culture shape the regions and analyze the impact of human interactions. This course is project based with presentations by students.

#149	History of the Holocaust Through Research & Analysis	1 trimester	½ credit	9-12
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History of the Holocaust will examine the events of the Holocaust (1933-1945), the systematic, planned annihilation of European Jews and other groups by Nazi Germany. This class will provide an opportunity for students to examine survivor testimony, documents, literature, newspapers, audio/visual, photographs, artwork, maps, and poems to help students construct an authentic and comprehensive portrait of the past as they frame their own thoughts about what they are seeing or reading, resulting in a deeper level of interest and inquiry.

#151	Introduction to Psychology	1 trimester	½ credit	11-12
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In this one-trimester elective course, students will study the general concepts and principles of psychology as well as the science concerned with understanding and explaining mental processes and behavior. Topics that will be addressed include: Sensation, Perception, Consciousness, Learning, Memory, Thought and Language, Intelligence, Motivation, and Emotion. Students who take this course may take AP Psychology the following year but it is not to be considered a prerequisite for AP Psychology.

#152	Abnormal Psychology	1 trimester	½ credit	11-12
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We are exposed to issues related to the field of abnormal psychology every day, whether it's hearing about a celebrity dealing with addiction or learning that a friend or family member is struggling with depression. Through lecture, class discussion, text books, fictional and nonfictional texts as well as film, students in Abnormal Psychology will focus on the biological, environmental, and cultural influences on abnormal behavior. Some of the topics studied in this course might include mood disorders, personality disorders, psychosomatic disorders, and substance abuse. In addition to exploring the background, assessment, and diagnosis of these disorders, students will also explore some of the available treatment approaches. Previous enrollment in Introduction to Psychology or AP Psychology is strongly recommended, but not required.

#153	Positive Psychology	1 trimester	½ credit	11-12
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Positive psychology is the scientific study of what helps people live full lives. This introductory course focuses on the science of thriving, addressing questions such as what it means to be “happy” and how we can cultivate well-being as individuals, in organizations, and in communities. Explore the foundations of positive psychology, understand the components of well-being, and learn the theory, empirical research, and collective wisdom that supports this conceptual framework.

#154	Sociology	1 trimester	½ credit	11-12
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In this one-trimester elective course, students will study the development, structure, and functioning of human society, learn about different groups of people, and examine what particular cultures consider normal and deviant behavior and how those distinctions vary by group. The topics of sociological perspectives, culture and social structures, social inequality, social institutions, and social change will be discussed and debated as students acquire, and become more aware of, their individual sociological imaginations in this one-trimester elective course.

#155	AP Psychology	3 trimesters	1 ½ credits	11-12
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This fast-paced AP level course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students will also learn about the ethics and methods psychologists use in their scientific study and practice of psychology. Content is broken into 14 chapters of study (e.g., Sensation and Perception, States of Consciousness, Learning, Personality, etc.) over the course of three trimesters. Students who take this class are not allowed to take Introduction to Psychology the following year.

#158	Michigan’s Heritage	1 trimester	½ credit	9-12
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In this elective course, students will explore Michigan’s rich and diverse past to its present day. Students will examine the distinctiveness of the land formation and the location of the Mitten that makes it the “Great Lakes State” in which they live, work, and play. During the course, students will discover the importance of the 5 fresh water Great Lakes, their massive shoreline, the 11,000 inland lakes, and how their presence affects our unique climate. Agriculture, economics, and recreation. This unit will include the significance of glaciers, Native Americans, European explorers, and many other important events/people/topics. Time will be spent to allow students to complete in-depth research on any city or town of their choice in the state. The goal of this elective is to help student develop an understanding and appreciation of this magnificent state.

#201	Physical Science	2 trimesters	1 credit	9-12
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A – In this course, students will study basic chemistry concepts, giving them a foundation for further studies in the field of chemistry. Topics to be addressed include: matter, state of matter, atoms, molecules, chemical bonds, and the periodic table. This course will have a laboratory component.

B – In this course, students will study basic physics principles, giving them a foundation for further studies in the field of physics. Topics to be addressed include: motion, Newton's laws, energy, waves and vibration, electricity and magnetism, light, gravity and momentum. This course will have a laboratory component.

#204	Biology	2 trimesters	1 credit	9-12
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A – In this course, students will study the essential concepts of biology including biochemistry, ecology, cell structure and function, cell energetics, and the comparative structure and function of living things. This course will have a laboratory component, which may include dissection, and outdoor experiences.

B – In this course, students will study the essential concepts of biology including cell division, DNA/RNA & protein synthesis, genetics, and evolution. This course will have a laboratory component.

#206	Chemistry	2 trimesters	1 credit	9-12
		3 trimesters	1 ½ credits	

This course will fulfill the Senior Mathematics requirement when taken the senior year. This course will fulfill the third-year science requirement.

A – Students will begin by studying data collection and analysis. They will learn about physical properties of matter including mass, volume, and density. Students will study the behavior of gasses, and how temperature affects matter in all states. They will learn about the concept of energy and how addition or removal of energy affects matter.

B – Students will learn about ways that we characterize matter, including elements and compounds and mixtures, and how to name them. Students will learn how to quantitatively describe the amount of matter present in a sample. They will learn about discoveries that led to the current model of the atom. They will quantitatively characterize chemical reactions using the mole concept and the law of conservation of matter.

OPTIONAL

C – In this course, students will learn more about atomic structure and current models of the atom. We will experiment with acids and bases and chemical equilibrium. We will also experiment with thermochemistry, electrochemistry, and principles of chemical bonding. Chemistry A and B are prerequisites for this course.

#208	Physics	2 trimesters	1 credit	10-12
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This course will fulfill the Senior Mathematics requirement when taken the senior year. This course will fulfill the third-year science requirement.

A – In this course, students will study the essential concepts of physics including linear motion, kinematics, vectors, forces, Newton’s laws, energy and work. This course will have a laboratory component.

B- In this course, students will study the essential concepts of physics including energy, waves, sound, light, magnetism, and electricity. This course will have a laboratory component.

#221	AP Chemistry	3 trimesters	1 ½ credits	11-12
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PREREQUISITE: Chemistry

This course will fulfill the Senior Mathematics requirement when taken the senior year. This course will fulfill the third-year science requirement.

A – In this course, students will begin a detailed study of the essential concepts of chemistry including reaction types, stoichiometry, thermodynamics, gases, kinetic molecular theory, liquids, solids, and solutions.

B – In this course, students will continue a detailed study of the essential concepts of chemistry including kinetics, equilibrium, acids and bases, thermodynamics, atomic theory and structure, and chemical bonding.

C – In this course, students will further study carbon chemistry, nuclear chemistry, polymers, and transition metal chemistry in preparation for the AP exam in May.

#222	AP Biology	3 trimesters	1 ½ credits	11-12
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PREREQUISITES: Successful completion of Biology with a B or better; completion of or concurrently taking Chemistry.

This course will fulfill the Senior Mathematics requirement when taken the senior year. This course will fulfill the third-year science requirement.

AP Biology is a rigorous and demanding course, which is the equivalent of an introductory college biology course. Content will be covered in more depth and greater expectations will be placed on interpretation and analysis of information than in biology. In addition, statistical analysis of data and modeling of concepts will be expected. A significant amount of studying must be completed at home to allow time for discussions, labs and inquiry during class. The AP Biology curriculum is organized into eight units of content with six science practices spiraled within them. Although the amount of material has been reduced, the emphasis on scientific thinking and analytical thinking has increased. Students are strongly encouraged to take the AP exam.

#231	Robotics	1 trimester	½ credit	9-12
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In today's world, some advanced skills are needed to keep up with an ever-changing technological workforce. In Robotics class, students will design, build, program and troubleshoot robots using the iterative design process. The course will utilize the VEX V5 platform, a user-friendly system that includes intuitive structure and smart electronics technology to aid the student in successful building and programming. Students will make robotic subsystems (including structure, motion, logic, sensor, and programming) work together to create a robot designed for a specific purpose. Students will be strongly encouraged to participate in local, Thumb Area VEX robotics competitions which occur in the late fall and winter.

#241	Earth Science Through Film	1 trimester	½ credit	9-12
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Students will explore everything from the vast expanses of space to the natural disasters of Earth! Do you enjoy movies like *The Day After Tomorrow* or *Interstellar*? If so, this is the class for you! Focus on the interactions between Earth system and its inhabitants, with special emphasis on understanding implications of Earth system processes on society. Topics include Earth's interior processes, volcanism, earthquakes, climate change, storms, and tornadoes. Students are expected to learn about Earth system processes and critique cinematic portrayal of such processes.

#242	Environmental Science	1 trimester	½ credit	10-12
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PREREQUISITE: Biology

This course will fulfill half of the third-year science requirement.

Students will study the natural world and the impacts humans have upon it. Topics to be addressed may include: ecosystems, biomes, biodiversity, climate change, invasive species, alternative energy, entomology (the study of insects), ornithology (the study of birds), and dendrology (the study of trees). Outdoor field work in the Caro area is required. When weather does not permit, the use of videos on the subject matter will be utilized instead of outdoor work.

#243	Genetics	1 trimester	½ credit	10-12
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PREREQUISITE: Biology

This course will fulfill half of the third-year science requirement.

In this elective course, students will study the concepts of genetics. Topics to be addressed include: molecular genetics, Mendelian genetics, inheritance patterns, genetic engineering and bioethical issues.

#244	Forensic Science	2 trimesters	1 credit	10-12
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PREREQUISITE: Biology; May be taken concurrently with Chemistry or Physics

This course will fulfill the third-year science requirement.

A - Students will study the application of biological and chemically-based principles as they apply to evidence and analysis at a crime scene and in civil law. Topics to be addressed include: physical evidence, crime scene reconstruction, analysis of glass, toxicology, serology, anthropology, death and autopsies, and DNA typing. This course will have a laboratory component.

B - Students will continue their study of the application of biological and chemically-based principles as they apply to evidence and analysis at a crime scene and in civil law. Topics to be addressed include: fingerprint analysis, trace evidence, fire and explosion investigation, ballistics, document examination, and computer forensics. This course will have a laboratory component.

#245	Anatomy & Physiology	2 trimesters	1 credit	10-12
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PREREQUISITE: Biology; Chemistry is highly recommended.

This course will fulfill the third-year science requirement.

A - Students will study the internal structure and function of the human body. Within the course several scientific disciplines converge, including biology, chemistry and physics. Topics to be addressed include: histology (study of tissues), and the integumentary, skeletal, and muscular systems of the human body.

B - Students will continue their study of the internal structure and function of the human body. Topics to be addressed include: the nervous system, the senses, the endocrine, respiratory, digestive and cardiovascular systems. This course will have a laboratory component including a comparative dissection of the fetal pig.

#301	English 9	2 trimesters	1 credit	9
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In this course, students expand on reading and writing skills developed in the middle school. The ninth-grade curriculum integrates composition and literature as students develop reading, writing, listening, speaking and viewing skills. More specifically, students will be exposed to a variety of texts from American and world cultures, both fiction and nonfiction, where close and critical reading skills will be developed. An emphasis on vocabulary and composition skills will be on-going throughout the school year, with a focus on structure and writing mechanics and the beginning stages of rhetorical analysis.

#305	English 10	2 trimesters	1 credit	10
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In this course, students expand on reading and writing skills developed in ninth grade. The tenth-grade curriculum integrates composition and literature as students expand and polish reading, writing, listening, speaking, and viewing skills. More specifically, students will be exposed to a variety of texts, both fiction and nonfiction, where active reading strategies and higher order/critical thinking skills will be further developed. An emphasis on vocabulary and composition skills and rhetoric will be on-going throughout the school year, with a focus on the structure of argument, documenting sources, and grammar usage and mechanics and the furthering of the rhetorical analysis will be developed.

#309	English 11	2 trimesters	1 credit	11
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In this course, students will expand on reading and writing skills developed in tenth grade. The eleventh-grade curriculum integrates composition and literature as students expand and perfect reading, writing, listening, speaking, and viewing skills. More specifically, students will take a critical approach to reading and writing where they can effectively identify an author's purpose and synthesize information to make logical and informed conclusions, with an increased focus on nonfiction texts. An emphasis on vocabulary and composition skills will be on-going throughout the school year, with a focus on analyzing an author's use of rhetorical strategies and techniques and test prep mechanics study.

#311	English 12	2 trimesters	1 credit	12
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In this course, students will expand on reading and writing skills developed in eleventh grade. The twelfth-grade curriculum integrates composition and literature as students expand and master reading, writing, listening, speaking, and viewing skills. More specifically, students will take a worldly approach to reading and writing where they can effectively identify an author's purpose, synthesize information to make logical and informed conclusions, and publish their own persuasive writings through a variety of media and research papers, with an increased focus on nonfiction and global texts and social concerns. An emphasis on vocabulary and composition skills will be on-going throughout the school year, with a focus on lengthy and published works.

Course Descriptions

English Department

#312	Contemporary Literature	1 trimester	½ credit	9-12
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This course will fulfill ½ of the English 12 requirement when taken the senior year. In grades 9-11 it is an English elective.

Contemporary Literature offers a global approach to literature, exploring the literature of the twentieth century to the present. Students will study various contemporary literary forms, including the novel, short story, poetry, fiction, non-fiction, narrative, and drama. Reading comprehension, analytical skills, and personal response will be emphasized. Students in this class will be required to write routinely over shorter time periods as well as extended time formats and for a range of tasks, purposes, and audiences.

#313	Creative Writing	1 trimester	½ credit	9-12
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This course will fulfill ½ of the English 12 requirement when taken the senior year. In grades 9-11 it is an English elective.

This course serves as an exploration of the creative writing process including idea generation, creation and development of drafts, and basic editing skills.

Each unit focuses on a different genre of writing that can be found in all kinds of real-world sources both in print and online. Examples include: The personal Narrative, Writing for Podcasts, The Short Story, and The Review. Works produced by professional writers as well as by students in the class form the basis of discussion in the workshop process.

#317	Career & Technical Writing	1 trimester	½ credit	9-12
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This course will fulfill ½ of the English 12 requirement when taken the senior year. In grades 9-11 it is an English elective.

Students will explore writing as it pertains to the working world and realm of leadership in various careers. They will learn to build an activities list, cover letter, resume, and references page that is tailored to their career goals by developing a digital career portfolio. They will practice refining technical writing skills and formatting professional documents that will set them apart from the crowd in their chosen career field. They will transition their hard copy documents into various electronic formats and learn to promote themselves as dedicated and capable individuals to potential employers through the use of numerous social media networking sites, including LinkedIn. Lastly, they will apply language skills to tasks relevant to their future aspirations.

Course Descriptions

English Department

#319	Sports Literature	1 trimester	½ credit	9-12
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This course will fulfill ½ of the English 12 requirement when taken the senior year. In grades 9-11 it is an English elective.

Sports is one of the central discourses of American culture with a unique blend of positive themes such as heroism, pride, identity, and negative themes of cheating, scandal, and disappointment. Sports also shape the ways we experience the world around us and reveal what American culture values. This course will examine the various themes that arise in both fiction and non-fiction writing about American sports and American sports figures while also examining documentary story structure, studying visual literacy through the evaluation of photojournalism and videography storytelling, analyzing sports reporting on both TV and radio. Students in this class will be required to write routinely over shorter time periods as well as extended time formats and for a range of tasks, purposes, and audiences.

#320	Gothic Literature	1 trimester	½ credit	9-12
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This course will fulfill ½ of the English 12 requirement when taken the senior year. In grades 9-11 it is an English elective.

Dive into the mysterious realms of Gothic Literature, where darkness meets the enchanted. This course invites you to explore the eerie beauty of haunted castles, tormented souls, and supernatural encounters. We'll delve into the works of iconic authors such as Mary Shelley, Edgar Allen Poe, and Bram Stoker, while also immersing ourselves in the chilling tales crafted by modern Gothic masters like Kerri Maniscalco and Diane Setterfield. Uncover the literary and poetic eloquence of Gothic tales, analyzing the cultural and historical influences that continue to shape this captivating genre. Students in this class will be required to write routinely over shorter time periods as well as extended time formats and for a range of tasks, purposes, and audiences.

#321	Greek Mythology	1 trimester	½ credit	9-12
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This course will fulfill ½ of the English 12 requirement when taken the senior year. In grades 9-11 it is an English elective.

Embark on a mythological exploration through the captivating world of Greek Mythology. From the heroic feats of gods and goddesses to the epic adventures of mortals, this course unveils the timeless stories that have shaped Western literature and art. From Zeus's thunderous escapades to the cunning schemes of Odysseus, get ready for a mythic journey like no other. We'll also decode the secrets of Medusa's gaze, Pegasus's flight, and other mythical marvels. Explore the Greek myths on literature, art, and even modern pop culture. Discover how these ancient tales still resonate in our understanding of human nature, morality, and the pursuit of destiny. Students in this class will be required to write routinely over shorter time periods as well as extended time formats and for a range of tasks, purposes, and audiences.

#322	Shakespearean Studies	1 trimester	½ credit	9-12
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This course will fulfill ½ of the English 12 requirement when taken the senior year. In grades 9-11 it is an English elective.

Step into the world of Shakespearean Studies, where his works transcend time and resonate with the complexities of the modern era. This course goes beyond the traditional examination of sonnets and soliloquies, exploring how Shakespeare's themes of love, power, and human nature echo in contemporary society. Engage with timeless classics while dissecting their relevance to current social, political, and cultural landscapes. Discover the enduring power of Shakespearean Language and storytelling, bridging the gap between the Elizabethan stage and the challenges of our contemporary world. Students in this class will be required to write routinely over shorter time periods as well as extended time formats and for a range of tasks, purposes, and audiences

#323	Poetry & Musical Analysis	1 trimester	½ credit	9-12
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This course will fulfill ½ of the English 12 requirement when taken the senior year. In grades 9-11 it is an English elective.

What can great works of poetry, prose, and music teach us about who we are, where we've come from, and where we're going? In this course students will learn techniques for reading and analyzing selected works of poetry and music and become familiar with their elements, terminology, processes, and methods of literary analysis as they examine the world through the lens of poetry, prose, and music and use what they learn to help answer questions about how to think about the world, how they want to fit into the world, and how they can, and should, change it. Students in this class will be required to write routinely over shorter time periods as well as extended time frames and for a range of tasks, purposes, and audiences.

#324	British Literature	1 trimester	½ credit	9-12
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This course will fulfill ½ of the English 12 requirement when taken the senior year. In grades 9-11 it is an English elective.

A study of selected significant authors, genres, and historical trends and cultural influences in British literature, this course will provide students with a generalized overview of British Literature from the Anglo-Saxon Era to the Modern Perspective and will cover The Middle Ages, Renaissance, Restoration, and Romantic periods in between. Examples of the great works covered include *Beowulf*, *The Epic of Gilgamesh*, *The Canterbury Tales*, *Frankenstein*, British poetry, drama, and much more! Students in this class will be required to write routinely over shorter time periods as well as extended time frames and for a range of tasks, purposes, and audiences.

Course Descriptions

English Department

#331	AP English Language/Composition	3 trimesters	1 ½ credit	11-12
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This course will fulfill the English 12 requirement when taken the senior year. In grades 9-11 it is an English elective.

Students in this introductory college-level course will read and carefully analyze a broad and challenging range of nonfiction prose selections, deepening their awareness of rhetoric and how language works. Through daily exercises in close reading and frequent writing, students will develop their ability to work with language and text with a greater awareness of purpose and strategy, while strengthening their own composing abilities. Focus will be placed on writing synthesis, rhetorical analysis, and argument essays while continued practice in vocabulary and the mechanics of writing will be on-going. Students will engage in year-long preparation for the AP® English Language and Composition Exam and may be granted advanced placement, college credit, or both as a result of satisfactory performance on the test in May.

#333	AP English Literature/Composition	3 trimesters	1 ½ credit	11-12
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This course will fulfill the English 12 requirement when taken the senior year. In grades 9-11 it is an English elective.

This course is designed to prepare students for the careful reading and critical analyzing of a variety of challenging texts, including classic and contemporary prose, poetry and drama. The course will guide students in close reading of texts to enable them to analyze themes and the stylistic and rhetorical/literary devices employed by an author. Students will further strengthen this close reading with critical/analytical writings. Writing skills will be honed by examining model and peer essays and through continual rewrites. In addition to exposing students to college-level English coursework, this course prepares them for the AP exam. To determine preparedness for the AP exam in May, students will undergo multiple practice tests and timed writings. Please note, a summer reading assignment may be required for this class.

#341	Speech	2 trimesters	1 credit	9-12
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This speech class offers students the opportunity to develop a broad range of oral communication skills including interpersonal, small group and public speaking activities. Students study communication theory as it applies to a variety of situations. They are required to perform a number of informal and prepared presentations designed to improve their speaking ability and enhance their self-confidence.

#343	Drama as a Performing Art	1 trimester	½ credit	10-12
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PREREQUISITE: Successful completion of Speech

This course is designed for the student who has an interest in dramatic and cinematic acting/production. After an introduction to basic dramatic elements, students act in a variety of productions, examine dramatic criticism, techniques in acting and play production, music videos, and film.

Course Descriptions

English Department

#351	Debate	1 trimester	½ credit	9-12
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Students study the principles of academic debate while researching the interscholastic debate topic for the current year. This component of the class culminates in debate presentations in which students practice constructive and rebuttal speech strategies, cross examination, note taking, critiquing, and critical thinking skills. This class is for advanced students who should expect to do extensive research in preparation for debate. This class may be taken in place of Speech A.

#318	Film as Literature	1 trimester	½ credit	9-12
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Students enrolling in this class will view and analyze a variety of quintessential films that have made a lasting impression on America's society. Students will explore what literature and film mean in the context of a multicultural society, studying recognized pieces as well as new and rediscovered voices, and will also explore social, historical, economic, political, and artistic issues.

The goals of the course include: 1. Instilling in students a passion for writing. 2. Providing students with a voice in society. 3. Teaching students how to analyze films as texts and modern non-fiction. 4. Preparing students to be active, critical thinkers in our modern American society. Themes to be explored are Film as Literature, "Strong versus Weak" – Needing to Have a Say, Needing to Advocate for Others, Race, Culture and Diversity – Past, Present and Future, Gender Issues – The Complexity of Equality and Choice, and Relationships and Understanding – Pivotal Moments that Change our Lives.

#401	Algebra I	3 trimesters	1 ½ credits	9-12
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A – This is a college preparatory course that contains content in the following areas: expressions, equations, functions, and properties of real numbers, solving linear equations, graphing linear equations and functions, and writing linear equations.

B – This is a college preparatory course that contains content in the following areas: solving & graphing linear inequalities, solving & graphing systems of equations & inequalities, exponents & exponential functions, polynomial functions and factoring methods.

C – This is a college preparatory course that contains content in the following areas: quadratic equations & functions, radicals & geometric connections, rational equations & functions, probability, and data analysis.

#408	Geometry	2 trimesters	1 credit	9-12
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PREREQUISITE: Algebra I C

A – This is a college preparatory course that contains content in the following areas: essentials of geometry, reasoning and proofs, parallel and perpendicular lines, congruent triangles, relationships within triangles, and similarity.

B – This is a college preparatory course that contains content in the following areas: right triangles and trigonometric ratios, properties of transformations, properties of circles, measuring length and area, surface area and volume of solids.

#412	Algebra II	2 trimesters 3 trimesters	1 credit 1 ½ credits	10-12
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PREREQUISITE: Geometry B

A – In this course students will study content in the following areas: equations and inequalities, linear equations and functions, systems of linear equations and inequalities, quadratic functions, factoring, and polynomials and polynomial functions.

B – In this course students will study content in the following areas: nth roots, rational exponents, functions operations and compositions, exponential and logarithmic functions, rational functions, quadratic relations, conic sections, counting methods and probability, data analysis, statistics, trigonometric ratios and function.

**Algebra II C is a prerequisite for those students intending to take Pre-calculus as their next math course. Students who do not take Algebra II C will take Trigonometry A & B as their next math course.*

C – In this course students will study content in the following areas: matrices, quadratic equation forms, writing quadratic functions and models, writing polynomial functions and models, inverse functions, graphing square root and cube root functions, graphing logarithmic functions, writing and applying exponential and power functions, graphing rational functions, constructing and interpreting binomial distributions, modeling two-variable data, sequences and series, graphing trigonometric functions, solving trigonometric equations.

#414	Algebra II Concepts	2 trimesters	1 credit	10-12
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PREREQUISITE: Geometry B

In this course, students will study content in the following areas: equations and inequalities, linear equations and functions, systems of linear equations and inequalities, quadratic functions, factoring, polynomials and polynomial functions, nth roots, rational exponents, function operations and compositions.

#421	Beginning Statistics	1 trimester	½ credit	11-12
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PREREQUISITE: Algebra II

This course meets ½ of the Senior Mathematics requirement when taken the senior year. If taken the junior year, it is a math elective.

This is a mathematics elective and a college preparatory course that contains content in the following areas: random samples, experimental design, frequency distributions, histograms, bar, circle, and time-series graphs, stem-and-leaf displays, measures of central tendency, measures of variation, percentiles and box-and-whisker plots, correlation and regression models, probability, binomial probability distribution, normal curves and sampling distributions.

#422	Trigonometry	2 trimesters	½ credit	11-12
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PREREQUISITE: Algebra II

This course meets the Senior Mathematics requirement when taken the senior year. If taken the junior year, it is a math elective.

This is a flipped class which requires students to have internet access outside of school. Students will be responsible for watching videos and taking notes on their own time. Class time will be reserved for practice and application of content.

A - This is a college preparatory course that contains content in the following areas: a review of real numbers and their properties, solving and graphing linear and quadratic equations, functions and their

graphs, transformations of functions, function operations, composite functions, inverse functions, trigonometric functions and their graphs, and analytic trigonometry.

B - This is a college preparatory course that contains content in the following areas: Law of Sines, Law of Cosines, vector operations, trigonometric forms of complex numbers, systems of equations and inequalities, matrices and determinants, sequences, series, and probability, characteristics and graphs of conic sections such as parabolas, ellipses, and hyperbolas.

#424	Calculus	2 trimesters	1 credit	11-12
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PREREQUISITE: Pre-calculus

This course meets the Senior Mathematics requirement when taken the senior year. If taken the junior year, it is a math elective.

This is a flipped class which requires students to have internet access outside of school. Students will be responsible for watching videos and taking notes on their own time. Class time will be reserved for practice and application of content.

A - This is a college preparatory course that along with Part B is equivalent to a one-semester college level Calculus class. Topics in Part A include graphs, polynomial and rational functions, limits, differentiation of power functions, exponential, logarithmic, and trigonometric functions.

B – This is a continuation of Part A. Topics for this section will include applications of derivatives, concavity, points of inflection, maxima and minima, optimization, linearization, related rates and an introduction to integration.

*Upon completion of this course, students have the option to take the CLEP test with the possibility of earning college credit.

#425	Consumer Math	1 trimester	½ credit	12
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This course meets ½ of the Senior Mathematics requirement when taken the senior year.

This is the math class that answers the question, “When am I ever going to use this?” During this class, students will explore banking, credit cards, credit scores, taxes, student loans, mortgages, interest rates, insurance, and more. Each student will design their own personalized budget plan and discover costs of home improvement projects. This is the real-life math that consumers use every single day.

#431	Analytical Thinking with Mathematics	1 trimester	½ credit	11-12
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PREREQUISITE: Algebra II

This course meets ½ of the Senior Mathematics requirement when taken the senior year. If taken the junior year, it is a math elective.

Analytical Thinking with Mathematics is an engaging and intellectually stimulating course designed to enhance students' critical thinking, problem-solving, and analytical skills through the exploration of various logical puzzles and reasoning techniques. Throughout this course students will learn to analyze problems systematically, identify patterns, and develop efficient strategies to arrive at solutions.

#451	College Algebra	1 trimester	½ credit	11-12
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PREREQUISITE: Algebra II

This course meets ½ of the Senior Mathematics requirement when taken the senior year. If taken the junior year, it is a math elective.

This course is an extension of Algebra II A and II B that students take their junior year. In this course, students will study content in the following areas: basic algebraic operations; linear and quadratic equations, inequalities, and graphs; algebraic, exponential, and logarithmic functions; and miscellaneous other topics.

*Upon completion of this course, students have the option to take the CLEP test with the possibility of earning college credit.

#452	AP Statistics	3 trimesters	1 ½ credits	11-12
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PREREQUISITES: Algebra I, Geometry, and Algebra II all with a minimum of B-.

This course meets the Senior Mathematics requirement when taken the senior year. If taken the junior year, it is a math elective.

AP Statistics is an introductory college-level statistics course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students cultivate their understanding of statistics using technology, investigations, problem solving, and writing as they explore concepts like variation and distribution; patterns and uncertainty; and data-based predictions, decisions, conclusions.

Students are REQUIRED to have access to a graphing calculator (not desmos.com). It is STRONGLY ENCOURAGED that students have a TI-84 Plus CE graphing calculator.

#453	AP Precalculus	3 trimesters	1 ½ credits	11-12
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Prerequisite: Algebra IIC

This course meets the Senior Mathematics requirement when taken the senior year. If taken the junior year, it is a math elective.

The is a flipped class which requires students to have internet access outside of school. Students will be responsible for watching videos and taking notes on their own time. Class will be reserved for practice and application of content.

AP Precalculus is designed to be the equivalent of a first semester college precalculus course. AP Precalculus provides students with an understanding of the concepts of college algebra, trigonometry, and additional topics that prepare students for further college-level mathematics courses. This course explores a variety of function types and their applications – polynomial, rational, exponential, logarithmic, and trigonometric functions. Throughout the course, the mathematical practices of procedural and symbolic fluency, multiple representations, and communication and reasoning are developed. Students experience the concepts and skills related to each function type through the lenses of modeling and covariation and engage each function type through their graphical, numerical, analytical, and verbal representations

#521	German I	2 trimesters	1 credit	9-12
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German I is an introductory course designed to develop in students the knowledge, understanding and skills involved in learning German. Although it is usually offered at the ninth-grade level, the course is open to all grade levels. The course covers the development of the four skills in foreign language learning: listening, reading, speaking and writing with an emphasis on oral skills. Audiovisual materials supplement the basic text and provide cultural insights and information.

#522	German II	2 trimesters	1 credit	9-12
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PREREQUISITE: German I B

German II is an intermediate course which continues practice in the language skills acquired in the first level and emphasizes these special objectives: oral competence, development of reading skills, the continuation of a formal study of grammar, progressive skill in writing, and the nurturing of cultural awareness.

#521	German III	2 trimesters	1 credit	10-12
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PREREQUISITE: German II B

German III is an advanced course designed to continue the development of the student's skills in German. The structure and vocabulary will extend to include all major verb tenses and vocabulary necessary to become an advanced language learner. Internet and other media resources will be used and evaluated for their use in language acquisition. The goals for this level include writing of simple compositions and letters, reading a variety of texts and speaking in everyday situations. Readings, songs, dialogues, and most explanations will be in the target language.

#521	German IV	2 trimesters	1 credit	11-12
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PREREQUISITE: German III

Each advanced class at this level may be taken in any sequence. German IV will focus on helping students to think and speak in German without translation. The class is conducted in German and prepares students for intermediate levels of college German. Students may work on cultural projects, read works of literature, or watch feature films. Advanced grammar is introduced as it relates to the instructional materials. Students are graded on communicative skills in speaking and writing.

#541	Spanish I	2 trimesters	1 credit	9-12
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Spanish I is an introductory course designed to develop in students the knowledge, understanding and skills involved in learning Spanish. Although it is usually offered at the ninth-grade level, the course is open to all grade levels. The course covers the development of the four skills in foreign language learning: listening, reading, speaking and writing with an emphasis on oral skills. Audiovisual materials supplement the basic text and provide cultural insights and information.

#542	Spanish II	2 trimesters	1 credit	9-12
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PREREQUISITE: Spanish I B

Spanish II is an intermediate course which continues practice in the language skills acquired in the first level and emphasizes these special objectives: oral competence, development of reading skills, the continuation of a formal study of grammar, progressive skill in writing, and the nurturing of cultural awareness.

#543	Spanish III	2 trimesters	1 credit	10-12
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PREREQUISITE: Spanish II B

Spanish III is an advanced course designed to continue the development of the student's skills in Spanish. The structure and vocabulary will extend to include all major verb tenses and vocabulary necessary to become an advanced language learner. Internet and other media resources will be used and evaluated for their use in language acquisition. The goals for this level include writing of simple compositions and letters, reading a variety of texts and speaking in everyday situations. Readings, songs, dialogues, and most explanations will be in the target language.

#544	Spanish IV	2 trimesters	1 credit	11-12
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PREREQUISITE: Spanish III

Each advanced class at this level may be taken in any sequence. Spanish IV will focus on helping students to think and speak in Spanish without translation. The class is conducted in Spanish and prepares students for intermediate levels of college Spanish. Students may work on cultural projects, read works of literature, or watch feature films. Advanced grammar is introduced as it relates to the instructional materials. Students are graded on communicative skills in speaking and writing.

#601	Band	3 trimesters	1 ½ credits	9-12
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PREREQUISITE: Demonstrated ability, enrollment in band class prior year, or by audition.

In this class students will study instrumental music, advancing the fundamentals of music performance, sight reading, and technical development through yearlong activities. Students perform at numerous concerts throughout the year, including football games in the first trimester and MSBOA Festivals in the second and third trimesters. Summer marching band camp is a required activity as well as attendance at certain performances.

#612	Choir	3 trimesters	1 ½ credits	9-12
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This is a performance choir for both male and female students. This course explores various composers and elements of music including theory, history, and style through performance. The objectives of this class are to pursue musical excellence in vocal technique, to achieve a moderate degree of music literacy, including theory, sight reading, and history, and to gain enjoyment through being in a performance group. Student's grade will be based on participation in choir rehearsal, concerts, singing tests, and music literacy course work.

#623	Music Appreciation	1 trimester	½ credit	9-12
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This is a non-performance class that explores music of various styles through listening experiences. All styles of music are covered (classical, folk, music theater, jazz, popular, etc.). Investigations of composers and performers integral to the styles are included in the class. Activities include listening, discussions, projects, and presentations on each style of music.

#635	Basic Art	1 trimester	½ credit	9-12
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This introductory level course is designed to give students a foundation in the elements and principles of art. Basic art history and a variety of media, including photography will be explored. Projects will be assigned for each area and students will complete a small portfolio to be presented and critiqued. This class is repeatable in different years, but not the same year.

#636	Drawing & Painting	1 trimester	½ credit	9-12
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PREREQUISITE: Basic Art

This course is focused on exploring specific media and enables students to learn and expand the basic drawing and painting techniques. Composition, perspective, proportion, and shading will be studied and projects will be assigned for these areas. Graphite drawing pencils and other mediums will be used for the various projects. By the end of the course, students should have a small portfolio of artwork to present in an art show. This class is repeatable in different years, but not the same year.

#638	Digital Arts	1 trimester	½ credit	10-12
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PREREQUISITE: Basic Art and Advanced Art

Through this course, students will learn to use the computer to visually communicate their ideas and become better prepared to compete in our ever-changing age of technology. Students will sharpen their drawing skills, improve their methods of composition, and improve their creative thinking skills. We will learn to use a variety of equipment and software. Concepts may include digital imaging, photo manipulation, graphic design, basic animation, as well as 3D design and modeling. Course projects are determined by student interest. This class is repeatable in different years, but not the same year.

#639	Textiles	1 trimester	½ credit	9-12
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PREREQUISITE: Basic Art

This course is an introduction to textiles and the study of fiber and fabric properties, identifications, fabric, weaving, yarn systems and knitting construction, finishes, dyeing and printing, as related to quality, performance and product end-use. The course combines the study of textile science, creative use of fiber and fabric as inspiration in fashion design, as well as surface applications and practices. This class is repeatable in different years, but not the same year.

#640	AP Studio Art	3 trimesters	1 ½ credit	11-12
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PREREQUISITE: Basic Art, Drawing & Painting, and 2 other art classes are recommended

In this course, students will prepare a portfolio to be submitted to the College Board with the goal of earning college credit. This class is for high performing art students, preparing them for an intense environment. Students must be self-motivated and driven to create artwork and monitor their own progress from brainstorming, creating, evaluating, and submitting work.

#643	Advanced Art	1 trimester	½ credit	10-12
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PREREQUISITE: Basic Art

This course is designed to give students who have successfully completed Basic Art or Drawing & Painting the opportunity to develop advanced skills exploring the elements and principles through using a variety of different media. Approximately half the course will be spent on photography. Coursework will include digital and physical projects, art history and creating “gallery ready” artwork. Emphasis is placed on originality and skill with various mediums. This class is repeatable in different years, but not the same year.

#651	Woods I	1 trimester	½ credit	9-12
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In this course, students will be exposed to various woodworking processes and machines. The students will learn safety techniques with an emphasis on craftsmanship. Once the required project has been completed, the students will choose a project of their own to complete with guidance from the instructor.

#652	Woods II	1 trimester	½ credit	9-12
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PREREQUISITE: Woods I

In this course, students will be exposed to various woodworking processes and machines. The students will learn safety techniques with an emphasis on craftsmanship. Students will choose a project of their own with guidance from the instructor.

Payment of material for individual project is required.

#653	Advanced Woods	1 trimester	½ credit	9-12
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PREREQUISITE: Woods I and Woods II

In this course, students will do an in-depth study of an area of woodworking that is of interest to them. Students will explore, research, and do a hands-on study of techniques such as woodturning and furniture making, as well as other topics.

Payment of material for individual project is required.

#655	Metals I	1 trimester	½ credit	9-12
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In this course, students will get a general introduction to basic metal working. Students will cover topics including metals and their properties, hand tool uses, sheet metal, casting, forging and oxy-act welding.

Course Descriptions

Applied Arts Department

#656	Metals II	1 trimester	½ credit	9-12
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PREREQUISITE: Metals I

In this course, students will study gas metal arc welding, shielded metal arc welding, metal lathe, milling machining practices and principles. Students will complete approved projects with an emphasis on safety and craftsmanship.

Payment of material for individual project is required.

#657	Advanced Metals	1 trimester	½ credit	9-12
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Students will be exposed to various metalworking processes and machines. They will learn safety techniques with an emphasis on craftsmanship. Students will choose a project of their own with guidance from the instructor.

Payment of material for individual project is required.

#661	Mechanical Drawing/CAD I	1 trimester	½ credit	9-12
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This course meets ½ of the Senior Mathematics requirement when taken in the senior year. If taken in grades 9-11, it is a Visual, Performing, or Applied Arts credit.

Students will be learning and using geometry concepts as it applies to the creation of drawings. Construction is the use of geometry to correctly create shapes and areas of objects. Students need to be able to measure, there is frequent use of the Standard English measuring system and metric systems. They also need to use algebra/geometry, and have the ability to convert fractions and decimals. Students will also learn the practical math used in industry and job placement.

#670	Construction Estimating	1 trimester	½ credit	9-12
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This course meets ½ of the Senior Mathematics requirement when taken in the senior year. If taken in grades 9-11, it is a Visual, Performing, or Applied Arts credit.

Students will be learning hands-on experience in multi areas of construction as well as estimating. Students learn necessary applied mathematical skills and concepts needed in order to create materials list, cost to fix, repair, or remodel modern homes. This class will help students gain critical and analytical thinking processes needed on a construction project. Students will be learning the following mathematics concepts: use of whole and fractional numbers, measurements, geometry, and simple algebraic equations.

#704	Computer Literacy	1 trimester	½ credit	9-12
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In this computer course, students will learn computer programs that will help them to prepare for other high school classes, employment opportunities, college and life skills outside the classroom. With this project based online curriculum students will develop skills in communication, collaboration, creativity, and critical thinking while learning how to use word documents, spreadsheets, slide decks, organize and maintain, email, manage time, and schedule virtual meetings.

#706	Computer Science Discoveries	1 trimester	½ credit	9-12
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In this course, students will be involved in highly interactive, collaborative computer science discoveries and projects. Students will investigate computer problem solving, web development, interactive animations and games. Students will develop skills to create multi page websites, apply computer programming as a fun, creative form of expression and understand the importance of the problem-solving process that computers use daily to communicate.

#709	WebWorks	1 trimester	½ credit	9-12
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The class is designed to create an understanding of how the Web works and how students communicate through the Web. Students will learn how different software programs work and develop basic skills that are used to create effective websites. Students will use the Michigan Merit Curriculum Online Experience, “21 things4students,” that meets National and Michigan Educational Technology Standards. The class is designed to help students gain the skills they will need to communicate and work both inside and outside the classroom. Students will gain knowledge in self-directed learning, navigating online learning, project collaboration, productivity tools, web presence, digital media, project planning, presentation tools, E-commerce, and digital citizenship. Students will explore a variety of software and online programs such as but not limited to: cloud computing, Google docs, Prezi, Weebly, Delicious and PhotoPeach.

#714	Basic Excel	1 trimester	½ credit	10-12
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The goal of this class is to provide students with the skills needed to execute many personal and professional activities using Microsoft Excel. It also prepares them to go on to more advanced skills using the software.

#715	AP Computer Science	3 trimesters	1 ½ credits	10-12
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Code.org’s Computer Science Principles curriculum is a three trimester, rigorous, entry-level course that introduces you to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing.

#711	Publications - Yearbook	3 trimesters	1 ½ credits	10-12
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PREREQUISITE: English instructor recommendation and instructor approval based upon student application. Experience in keyboarding, computers, writing and photography preferred.

Students enrolled in this class are responsible for the development, creation, selling and distribution of the yearbook. Students will learn different aspects of time management, organization, leadership, writing (including body copy, headlines, and captions), page layout, interviewing, photography, communication skills and many other skills related to business and publications. Students will have hands-on experience with a variety of computer programs. Students will be able to apply knowledge gained in this class to the real world. This class is designed as a yearlong class and a student must enroll in all 3 trimesters. Due to this requirement, Independent Study is not available.

#731	Health	1 trimester	½ credit	9-12
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In this course, students will learn how to obtain, interpret, and apply health information and services in ways that protect and promote personal, family and community health.

#733	Creative Movement & Yoga	1 trimester	½ credit	9-12
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This course will explore basic body movement, rhythms, and choreography. Students will learn a variety of styles of dance as well as create their own original group and individual dances. We will also work on flexibility, strength, and mind body connection via weekly yoga sessions. No previous dance experience is required, but students will be required to perform in front of the class as part of their grade.

#742	Advanced Athletic Performance	1 trimester	½ credit	9-12
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The goal of this course is to help athletes reach their potential by increasing strength and enhancing skill related fitness. Students will weight train three days a week and perform drill related fitness two days a week focusing on agility, balance, coordination power/reaction time, and speed. Students will keep training records and will be expected to show a strong desire to develop better strength, speed, and performance skills. This course will be repeatable for credit.

#734	Personal Fitness	1 trimester	½ credit	9-12
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This course will focus on improving muscle strength and cardiovascular endurance through a mixture of weight training, plyometrics, and cardio. During this course, students will create a personal fitness plan including a workout schedule and personal nutrition tracking system based on their individual goals and fitness.

#737	Team Sports	1 trimester	½ credit	9-12
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This course will promote an active lifestyle through traditional team sports. During the trimester, students will be assigned to teams based on class size to participate. Teams will be reassigned with each different sports unit. Some examples of team sports are Flag Football, Basketball, and Volleyball.

#739	Strength Training	1 trimester	½ credit	9-12
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During this course, students will focus on building muscular strength through a weights based training program. This course is intended for those who take weightlifting seriously.

#781	Freshman Focus	1 trimester	½ credit	9
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In this course, students will learn the necessary skills needed to make a positive transition from the middle school to the high school setting with a focus on academic and social success. Topics to be addressed include organization skills, learning styles, goal setting, effective communication, and developing successful study and testing habits.

#783	Senior Capstone	1 trimester	½ credit	12
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In this course, students will prepare for the transition from high school to college. Students will explore post-secondary choices, become proficient in the types of writing needed for college/university applications, and familiarize themselves with the availability of grants and scholarships. Students will be introduced to, through guest speakers and online exploration, what college/universities, military branches, and technical/apprentice training programs are available as they plan for their future. Discussion about topics that will occur after graduation that they need to be prepared for.

#784	Peer Counseling I	1 trimester	½ credit	10-12
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This one trimester course focuses on developing human relation skills and fostering the personal growth of its members. Course content includes peer influence, respect, self-esteem, communication, listening skills, empathetic understanding of others, stress and coping, decision making, problem solving, depression, career and life planning. Assertiveness, values and helping self and others will also be incorporated.

#785	Peer Counseling II	1 trimester	½ credit	10-12
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PREREQUISITE: Peer Counseling I and instructor approval.

This class is designed to train students in developing and implementing small/large group presentations on issues specifically faced by adolescents, but not restricted to the age group. Group leadership skills and group dynamics as well as practical experience in positive interpersonal relations are included. The focus of the program will be to train students to provide service in the high school, lower grades and the community based on needs assessments. Conflict mediation is emphasized as is the development of personal counseling skills and knowledge of appropriate information.

#786	Peer Counseling III	1 trimester	½ credit	10-12
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PREREQUISITE: Peer Counseling I and II and approval of the Peer Counseling Coordinator, administration, counselors, faculty and staff, parent/guardian, and the current Peer Counseling III students.

The main purpose of this course is for students to staff a Peer Counseling room(s) on an hourly/block basis. These students will help other students with personal problems and conflict resolution. They will arrange tutoring and other services based upon needs assessments. Students may take this class for more than one trimester.

AGRISCIENCE, FOOD & NATURAL RESOURCE

All students within the Agriscience Food & Natural Resources program will gain a basic understanding of the exciting and dynamic industry of agriculture. Students will get hands-on training with new technology in the large animal learning facility, hydroponic greenhouse, horticulture greenhouse, and aquaculture systems. All students within the program will be members of the TTC FFA.

Certifications Available:

- Basic Animal Science Certification
- Veterinary Medical Applications Certification
- Michigan Nurseryman Certification
- Plant Science Certification
- Foundations in Ecology Certification
- Pesticide Applicator

ART & DIGITAL DESIGN

In this class, students learn to communicate to mass audiences, promoting products and ideas. Students use design principles, typography, illustration and computer skills to produce effective graphic communications and develop their creativity through fun hands-on projects!

Certifications Available:

- SkillsUSA/PrintEd - Graphic Design
- SkillsUSA/PrintEd - Photography
- Microsoft Office Specialist: Word, Excel, Access, PowerPoint, and Outlook

AUTOMOTIVE BODY REPAIR

In this program, students will rebuild and restore damaged cars, fix fenders, restore a muscle car, and develop skills needed to do a variety of auto body shop related jobs.

Certifications Available:

- State of Michigan - Auto Body Repair
- ASE National Certification
- SP2 Safety

AUTOMOTIVE TECHNOLOGY

The Automotive Technology program is intended to prepare students to be able to take and pass the National Institute Auto Service Excellence (ASE) test and to enter the field of work as an advanced apprentice technician.

Certification Available:

- ASE National Certification (10 areas)
- Passenger/Light Truck Tire Mount/Demount Certification
- Snap-On Electrical
- 504 Meter Certification
- SP2 Safety Certification

COMPUTER TECHNOLOGY MANAGEMENT

Students will begin the year building 24 computers to be used in the classroom. All first-year students will complete the CompTIA IT Fundamentals curriculum and then have the option of following one of the following IT Career paths: PC Servicing, Networking, Security, Server Administration, Ethical Hacking, Linux, and Cyber Defense. Second-year students follow the same curriculum but at a more in-depth level.

Certifications Available:

- CompTIA IT Fundamentals+
- CompTIA A+
- CompTIA Network+
- CompTIA Security+
- CompTIA Linux+
- CompTIA Server+
- IT Specialist Artificial Intelligence
- IT Specialist Cloud Computing
- IT Specialist Computational Thinking
- IT Specialist Cybersecurity
- IT Specialist Device Configuration and Management
- IT Specialist HTML and CSS
- IT Specialist Networking
- IT Specialist Network Security
- IT Specialist Software Development
- TestOut IT Fundamentals Pro
- TestOut PC Pro
- TestOut Network Pro
- TestOut Security Pro
- TestOut Linux Pro

CONSTRUCTION TRADES

The Construction Trades program provides a broad foundation of applied and transferable basic skills plus occupationally specific technical skills required to function in an increasingly complex and highly technological society and workplace.

Certifications Available:

- SkyTrak/Rough Terrain Forklifts Certification
- OSHA Safety Certification

COSMETOLOGY

Learn the science of beautifying and improving the complexion, skin, hair and nails in the Cosmetology Program. The classes are held at Bayshire Beauty Academy in Caro. Here the students undergo 350 hours of classwork and laboratory studying, and then have 1,150 hours of floor work guided by the experience of professional instructors. Full accumulation of hours requires hours worked during the summer between junior and senior years. This course is designed to prepare students for the state exam and licensing process. Licensure is offered through the State of Michigan.

CULINARY ARTS

The Culinary Arts program provides students an opportunity to acquire broad transferable skills as well as job specific skills necessary for employment and advancement in a diverse industry. Students will rotate through all areas of a real, licensed commercial kitchen. They will bake, batch cook, short order cook, service, cashier and do dishes.

Certifications Available:

- ServSafe Manager Certification
- ServSafe Foodhandler Certification
- ServSafe Allergen Certification
- ProStart Level 1 and Level 2 Certifications
- ProStart National Certificate of Achievement

DELTA FIREFIGHTER ACADEMY

The Delta Firefighter Academy is a dual enrollment program that allows second year TTC students, upon graduation and reaching the age of 18, to receive their State of Michigan Firefighter certification while also earning 12 college credits toward a degree in Fire Science at Delta College.

Certifications Available:

- Firefighter I Certificate
- Firefighter II Certificate
- Hazmat Ops Certificate
- First Aid/CPR Certificate
- 12 college credits toward a degree in Fire Science at Delta College

DIESEL TECHNOLOGY

This individualized program enables students to maintain and repair a wide variety of equipment including agricultural and heavy equipment. A student will diagnose, tune-up, and overhaul diesel engines, as well as become familiar with brake, steering, suspension, electrical and electronic systems, preventative maintenance and welding/fabrication.

Certifications Available:

- State of Michigan Heavy Truck Repair (3 areas)
- ASE National Certification (6 areas)
- Snap-On Electrical
- SP2.org

ELECTRONICS

The one-year Electronic program is designed to prepare students for careers in the high-paying and in-demand jobs specializing in areas of electricity. Students learn about electrical theory, components, schematics, and more by performing hands-on tasks such as soldering, wiring, programming, prototyping, and troubleshooting.

Certifications Available:

- Career Safe OSHA-10
- ETA SET
- FAA Part 107 (Commercial Drone License)
- Mitsubishi Robot Certification Basic and Advanced
- Electrical Interim Credential From ETA Alliance

GRAPHICS & DIGITAL IMAGING

This program is designed for students interested in graphic design, typography, logo development, illustration, printing, screen printing on apparel, digital imaging, dye-sublimation, signage and vehicle graphics. From design to delivery, students will learn the entire design process, create products and learn the business side of the industry as we fill orders for customers while building a portfolio.

Certifications Available:

- American Screen Printing Association
- SkillsUSA/Advertising Design
- SkillsUSA/Graphic Communications
- SkillsUSA/Offset Press Operations and Binding and Finishing
- SkillsUSA/Screen Printing
- SkillsUSA/PrintEd
- OSHA 10-Hour General Industry Safety Certification

LAW ENFORCEMENT/PROTECTIVE SERVICES

This program will provide students with skills and technical experience necessary to meet the needs of the criminal justice profession. Students will have the opportunity to obtain college credits at the introductory level to the criminal justice program at Delta College.

MARKETING & BUSINESS MANAGEMENT

This course is designed to equip you with the necessary skills to excel in the business world. You will have the opportunity to manage the Cleaver Corner Store and explore entrepreneurial opportunities with a focus on project management. Additionally, you will participate in DECA, an organization that prepares future leaders and entrepreneurs for careers in marketing, finance, hospitality, and management in high schools and colleges worldwide.

Certifications Available:

- Customer Service and Sales Certified Specialist from the National Retail Federation
- Multiple Certifications through YouScience in Marketing, Management, Business and Finance

NURSING CAREERS

Nursing Careers is a highly academic program for the self-disciplined and self motivated student who is interested in pursuing a career in any healthcare field. Students will gain first hand, on the job, experience during extensive clinical and job shadowing opportunities. This exciting program prepares students for articulation to local colleges for a smooth transition from high school to college. Students will also have the opportunity to become a Certified Nursing Assistant after passing the state issued certification exam.

Certifications Available:

- First Aid (American Heart Association)
- BLS CPR/AED (American Heart Association)
- State of Michigan Certified Nursing Assistant

PROFESSIONS IN EDUCATION

This program is an introduction to employment possibilities in the field of education. It features on the job training in a licensed preschool program under the direction of a certified instructor. Students will have the opportunity to obtain credentials, earn credit for prior learning through many Michigan colleges, and become members of FCCLA.

Certifications Available:

- MI Registry
- First Aid
- CPR/AED

Credentials Available:

- Child Development Associate (CDA)
- Michigan Youth Development Associate (MI-YDA)

WELDING/FABRICATION

Welding is a leader of today's high tech approach to manufacturing and is in high demand. Students will be trained for a variety of jobs for the metal fabrication industry. Along with training in various types of techniques and processes, students receive instruction in the use of industrial equipment. Emphasis is placed on welding techniques and joining methods, use of wire feeders, plasma cutting and welding torches.

Certifications Available:

- American Welding Society (AWS) National Certification
- Schools Excelling through National Skills Standards Education (SENSE)