

CARO HIGH SCHOOL

COURSE DESCRIPTIONS 2023-2024



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REVISED 8-2023

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 schedules for the year, teacher and parent permission are needed.

Graduation Requirements

To graduate from Caro High School, a student must:

1. Be enrolled in a full day schedule during grades 9-12. Exceptions must be approved by the building principal and/or Board of Education.
2. Earn a sufficient number of credits for full time enrollment for 4 years. A two-credit leeway is given.
3. To receive a Diploma, students must earn the required credits in the following areas prior to graduation:
 - 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. Students must take math in their senior year.
 - Three (3) credits of science which must include Biology, Chemistry or Physics, and one additional science credit.
 - Three (3) credits of social studies to include: American History, Government, Economics, and World History.
 - One (1) credit of speech.
 - One (1) credit of visual, performing or applied art.
 - Two (2) credits of a foreign language (1 credit with modifications-see counselor)
 - One-half (1/2) credit of physical education.
 - One-half (1/2) credit of health.
 - One-half (1/2) credit of computer education.
4. Take the required State assessment as determined by Caro High School.

Modifications to the above requirements may be made through a Personal Curriculum. This would only be allowed for upper-level classes. Contact the guidance counselor for additional information.

Example of Typical 4 Year Schedule with a Trimester Schedule

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English A	English A	English A	English A
English B	English B	English B	English B
Math A	Math A	Math A	Math A
Math B	Math B	Math B	Math B
Math C	Biology A	Science A	Social Studies A
Physical Science A	Biology B	Science B	Social Studies B
Physical Science B	American Hist. A	Government	
<i>Health</i>	American Hist. B	Economics	
<i>Physical Ed.</i>	<i>Foreign Lang. A</i>		
<i>Foreign Lang. A</i>	<i>Foreign Lang. B</i>		
<i>Foreign Lang. B</i>	<i>Speech A</i>		
<i>Computers</i>	<i>Speech B</i>		

Computers and Speech are requirements for graduation from CHS, but not in the grade indicated as they can be taken any time within the 4 years of high school.

Several classes can be taken at Caro High School and the Tuscola Technology Center to fulfill the computer requirement. See the list below.

Caro High School

Computer Literacy
AP Computer Science
Publications
Computer Science Discoveries
Web Works
Basic Excel

Tuscola Technology Center

Advertising Design
Computer Technology Management
Graphic Communications

Several classes can be taken at Caro High School and the Tuscola Technology Center to fulfill the senior year math-related requirement.

Caro High School

Algebra II
Statistics (.5 cr)
Trigonometry
Pre-calculus
Calculus
Consumer Math (.5 cr)
College Algebra
Physics
AP Chemistry (1.5 cr)
AP Computer Science (1.5 cr)
AP Statistics (1.5 cr)
AP Precalculus (1.5 cr)

Tuscola Technology Center

Advertising Design
Construction Technology
Electronics/Electricity
Graphic Communications
Law Enforcement
Marketing & Business Management
Agri-Science
Computer Technology
Welding
Power Technology
Auto Body
Auto Technology
Culinary Art

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 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 credit 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 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 his/her 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 well 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 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 Tri's	1 credit	10
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A - In this course, students will study a chronological overview of U.S. history from the late 1870s 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 Tri	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 Tri	½ 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 Tri's	1 credit	12
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This course fulfills the senior social studies requirement.

A - In this course, students will be studying six specific units of World History, including Age of Explorations, 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.

#121	AP American History	3 Tri's	1½ credits	10, 12
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This course fulfills the sophomore U.S. History requirement.

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. Students are strongly encouraged to take the AP exam.

#122	AP European History	3 Tri's	1½ credits	12
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This course fulfills the senior World History requirement.

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. Students are strongly encouraged to take the AP exam.

#123	AP U.S. Government and Politics	3 Tri's	1 ½ credits	11, 12
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This fulfills the junior Government requirement.

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. Students are strongly encouraged to take the AP exam.

Course Descriptions

Social Studies Department

#139	Cold War Connections	1 Tri	½ credit	10, 11, 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.

#142	U.S. History Through Film	1 Tri	½ credit	10, 11, 12
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In this elective course, students will study U.S. History from the Revolutionary War to the present day, 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: the Revolutionary War, the Civil War, Reconstruction, World War I, the Great Depression, World War II, the Civil Rights Movement.

#143	Presidential Elections	1 Tri	½ credit	10, 11, 12
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We will focus on ten noteworthy presidential elections in U.S. History. The elections will be broken down by theme, and/or time period. We will study the candidates, the issues involved, and the results. For those who enjoy studying history and government, this class will appeal to you.

#146	Current Events	1 Tri	½ credit	9, 10, 11, 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 newspapers, 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 Tri	½ credit	9, 10, 11, 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 and Analysis	1 Tri	½ credit	9,10,11,12
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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 Tri	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 Tri	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 Tri	½ credit	10, 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.

#155	AP Psychology	3 Tri's	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 are strongly encouraged to take the AP exam in May. Students who take this class are not allowed to take Introduction to Psychology the following year.

#154	Sociology	1 Tri	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.

#158	Michigan's Heritage	1 Tri	½ credit	9, 10, 11, 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. Students will have the opportunity to uncover why 125 million people travel to Michigan annually. 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 lighthouses, shipping, fishing, shipwrecks, the islands, and our drinking water. Time will be spent investigating the 83 counties and what makes each one unique. The goal of this elective is to help students develop an understanding and appreciation of this magnificent state.

#201	Physical Science	2 Tri's	1 credit	9
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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 Tri's	1 credit	10
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PREREQUISITES: Physical Science A and B.

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	3 Tri's	1 1/2 credit	10, 11, 12
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PREREQUISITES: Physical Science A and Algebra I

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 gases, 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.

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 Tri's	1 credit	11, 12
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PREREQUISITES: Physical Science B & Geometry

This course meets the Senior Mathematics requirement. Students may take this course as their math requirement only if they have taken Chemistry as their third Science credit.

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 Tri's	1 ½ credits	11, 12
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PREREQUISITE: Chemistry

This course meets the Senior Mathematics requirement.

Students are strongly encouraged to take the AP exam in May.

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 Tri's	½ credit	11, 12
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PREREQUISITES: Successful completion of Physical Science and Biology with a B or better; completion of or concurrently taking Chemistry.

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.

#231A	Robotics	1 Tri	½ credit	9, 10, 11, 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 Tri	½ credit	9, 10, 11, 12
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In this elective, 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 Tri	½ credit	11, 12
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PREREQUISITE: Biology

In this elective course, 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 Tri	½ credit	11, 12
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PREREQUISITE: Biology

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 Tri's	1 credit	11, 12
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PREREQUISITE: Biology; May be taken concurrently with Chemistry or Physics

A – In this elective course, 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 – In this elective course, 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 Tri's	1 credit	11, 12
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PREREQUISITE: Biology; Chemistry is highly recommended.

A – In this elective course, 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 – In this elective course, 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 Tri's	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 Tri's	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 Tri's	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 Tri's	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 Offerings

English Department

# 312	Contemporary Literature	1 Tri	½ credit	10 - 12
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This course will fulfill the English 12 requirement when taken the senior year.

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.

# 313	Creative Real-World Writing	1 Tri	½ credit	10 -12
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This course will fulfill the English 12 requirement when taken the senior year.

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.

#318	Film as Literature	1 Tri	½ credit	10-12
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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 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.

#331	AP English Language/Composition	3 Tri's	1 ½ credits	11, 12
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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 Tri's	1½ credits	11, 12
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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 Tri's	1 credit	9, 10, 11, 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 Tri	½ credit	10, 11, 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.

#351	Debate	1 Tri	½ credit	9, 10, 11, 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.

It is the recommendation of the Math Department that students have access to a graphing calculator for use in Algebra II classes and above. As mathematics becomes more complex, graphing calculators become efficient tools in the solution process and will be helpful for students to complete homework assignments.

While there are classroom calculators available, there is no guarantee that these will be available on a daily basis for loan due to limited supply. The Math Department recommends the TI-83 Plus or TI-84 calculators. Due to the high cost of these calculators, it is suggested that students purchase used calculators from reputable sources.

#401	Algebra I	3 Tri's	1½ credits	9, 10
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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.

#404	Geometry Concepts	2 Tri's	1 credit	9, 10, 11
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PREREQUISITE: Algebra I C

A – In this course, students will study content in the following areas: basics of geometry, segments and angles, parallel and perpendicular lines, triangle relationships and congruent triangles.

B – In this course, students will study content in the following areas: quadrilaterals, similarity, polygons and area, surface area and volume, right triangles and trigonometry, and circles.

#408	Geometry	2 Tri's	1 credit	9, 10, 11
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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 Tri's 3 Tri's	1 credit 1 ½ credits	10, 11, 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.

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.

**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.*

#414	Algebra II Concepts	2 Tri's	1 credit	10, 11, 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	Statistics	1 Tri	½ credit	11, 12
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PREREQUISITE: Algebra II

This course meets ½ of the Senior Mathematics requirement.

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, estimation and hypothesis testing.

#422	Trigonometry	2 Tri's	1 credit	11, 12
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PREREQUISITE: Algebra II

This course meets the Senior Mathematics requirement when taken in the senior year.

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.

#423	Pre-calculus	2 Tri's	1 credit	11, 12
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PREREQUISITE: Algebra II C or Trigonometry

This course meets the Senior Mathematics requirement when taken in the senior year.

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.

This class is designed for students who plan to pursue a degree in a math-or science-related field.

A - This is a college preparatory course that contains content in the following areas: functions and their graphs, polynomial and rational functions, exponential and logarithmic 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.

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

#424	Calculus	2 Tri's	1 credit	11, 12
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PREREQUISITE: Pre-calculus

This course meets the Senior Mathematics requirement when taken in the senior year.

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	2 Tri's	1 credit	12
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This class extends the skills learned in Algebra I to help manage personal finances. There are opportunities for students to construct and apply mathematical ideas through business and consumer themes. Students will also explore financial planning as it applies now and in the future that will assist them in making the most informed choices. Topics include: personal earning power, salaries and commissions, checking and savings accounts, business ventures with cost, revenue and profit functions, linear programming, consumer credit and loans, credit cards, and credit ratings.

#451	College Algebra	1 Tri	½ credit	12
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PREREQUISITE: Algebra 2A and 2B

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 will be reserved for practice and application of content.

This course is an extension of Algebra 2A and 2B that students take their junior year. In this course, students will study content in the following areas: exponential and logarithmic functions, sequences and series, factorials, binomial and polynomial functions.

*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 Tri's	1.5 credit	11-12
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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.

Prerequisite courses include Algebra I, Geometry, and Algebra II all with a minimum of B-.

#453	AP Precalculus	3 Tri's	1.5 credit	11-12
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AP Precalculus is designed for students who've taken both Geometry and Algebra 2. Students who've taken these courses at any level have covered all the content necessary for this class. In AP Precalculus, students explore everyday situations using mathematical tools and lenses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. They will learn how to observe, explore, and build mathematical meaning from dynamic systems, an important practice for thriving in an ever-changing world.

#521	German I	2 Tri's	1 credit	9, 10, 11, 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 Tri's	1 credit	10, 11, 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.

#523	German III	2 Tri's	1 credit	10, 11, 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.

#524	German IV	2 Tri's	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.

Course Offerings

World Language Department

#541	Spanish I	2 Tri's	1 credit	9, 10, 11, 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 Tri's	1 credit	10, 11, 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 Tri's	1 credit	10, 11, 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 Tri's	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 Tri's	1½ credit	9, 10, 11, 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 Tri's	1½ credits	9, 10, 11, 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.

#635 Beginning Art & Photography	1 Tri	½ credit	9, 10, 11, 12
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This introductory level course builds a foundation in the elements and principles of art and design, as well as understanding basic art history. Students will explore a variety of media and complete a small portfolio that will be presented and peer critiqued. This class starts to prepare students for college and career, especially in the art industry.

Course fee of \$6 is required.

#636 Drawing & Painting	1 Tri	½ credit	9, 10, 11, 12
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PREREQUISITE: Beginning Art & Photography

Utilizing the elements of art and design, students will focus on exploring media specific to the course. The students will work on figure and still life drawing and painting techniques, while preparing work to be “gallery-ready” and available to present in a final art show. Students will also study art history and critique a variety of work that will prepare them for future fine art endeavors. This class can be repeated to hone the skills of the student.

Course fee of \$12 is required.

#637 Photography	1 Tri	½ credit	9, 10, 11, 12
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PREREQUISITE: Beginning Art & Photography

In this very medium specific course, students will learn solid film and darkroom skills that will support a growing digital photography industry. In addition, students will learn a variety of digital photography outlets, including computer manipulation of images. Students will learn proper presentation of work both online and “gallery-ready”, and will be available to present in a final art show. Students will also study the history of photography and critique a variety of work that will prepare them for future photographic endeavors. This class can be repeated to hone the skills of the student.

Course fee of \$15 is required.

#638 Digital Arts	1 Tri	½ credit	9, 10, 11, 12
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PREREQUISITE: Beginning Art and Photography

Students will apply elements and principles of art and design that focus on the creative and artistic aspect of presentations and marketing in the job industry. The students will use a variety of physical and digital media in preparation for a final art show. Work will be “gallery-ready” and presented in a professional manner. Students will also study design history and critique work by professionals, peers and self that will prepare them for future design endeavors. This class can be repeated to hone the skills of the student.

Course fee of \$12 is required.

#640	AP Studio Art	3 Tri's	1½ credit	11, 12
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PREREQUISITE: Beginning Art and Photography and Drawing and Painting; other two art courses are recommended.

In this course, students will prepare a portfolio to be submitted to the College Board in hopes of earning college credit. This class is for high-performing art students, preparing them for art in an intense environment. Students must be self-motivated and driven to create artworks and monitor their progress from brainstorming, creating, evaluating, and recreating. Course fee of \$25 is required in addition to the Studio Art Exam fee.

#651	Woods I	1 Tri	½ credit	9, 10, 11, 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.

Course fee of \$10.00 is required and payment of material for individual project.

#652	Woods II	1 Tri	½ credit	9, 10, 11, 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.

Course fee of \$10.00 is required and payment of material for individual project.

#653	Advanced Woods	1 Tri	½ credit	9, 10, 11, 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.

Course fee of \$10.00 is required and payment of material for individual project.

#655	Metals I	1 Tri	½ credit	9, 10, 11, 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 fee of \$10.00 is required and payment of material for individual project.

#656	Metals II	1 Tri	½ credit	9, 10, 11, 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.

Course fee of \$10.00 is required and payment of material for individual project.

#657	Advanced Metals	1 Tri	½ credit	9, 10, 11, 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.

Course fee of \$10.00 is required and payment of material for individual project.

#670	Home Maintenance	1 Tri	½ credit	9, 10, 11, 12
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This course provides students with the basic knowledge of home maintenance and repair and how things work around the home. Students receive instruction on performing everyday repairs throughout the home and garden. Repair procedures will be practiced in a lab setting. The material covered in this class includes hand and power tool safely, plumbing, painting, electrical, sheet rock, and framing. Other materials that may be covered include appliance and small engine repairs.

Course fee of \$10.00 is required and payment of material for individual project.

#704	Computer Literacy	1 Tri	½ credit	9, 10, 11, 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 Tri	½ credit	9, 10, 11, 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 Tri	½ credit	9, 10, 11, 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.

#711	Publications - Yearbook	3 Tri's	1½ credits	10, 11, 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.

#714	Basic Excel	1 Tri	½ credit	9, 10, 11, 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 Tri's	1 credit	10, 11, 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.

#731	Health	1 Tri	½ credit	9, 10, 11, 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.

#732	Physical Education	1 Tri	½ credit	9, 10, 11, 12
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In this course, students will develop skills and knowledge that will promote a physically active lifestyle.

#733	Introduction to Dance	1 Tri	½ credit	9, 10, 11, 12
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This course will explore basic body movement, rhythms, and choreography. Students will research and explore dances from around the world as well as create their own original group and individual dances. No previous dance experience is required but students will be required to perform in front of the class as part of their grade.

#734	Fitness for Life	1 Tri	½ credit	10, 11, 12
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PREREQUISITE: Physical Education

This course is an extension of the 9th grade physical education course. The focus will be total body fitness through weights. Students will design a personal fitness program to meet their individual goals. This course is repeatable for credit.

#742	Advanced Athletic Performance	1 Tri	½ credit	10, 11, 12
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PREREQUISITE: Physical Education

The goal of this course is to help athletes reach their potential by increasing strength and enhancing skill related fitness. Weight training 3 days a week and drill related fitness 2 days a week; focusing on agility balance and 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 is repeatable for credit.

#744	Competitive Fitness	1 Tri	½ credit	10, 11, 12
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The course is an extension of the 9th grade PE course. It will be tailored towards individuals seeking the competitive edge of fitness while increasing cardiovascular endurance and muscular strength through weights. Depending on class size, dynamics and students' abilities, selected team sports units will be implemented.

Course Offerings

Electives

#781	Freshman Focus	1 Tri	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 Tri	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 Tri	½ credit	10, 11, 12
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Open to 10th, 11th, and 12th grades. 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 Tri	½ credit	10, 11, 12
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PREREQUISITE: Peer Counseling I and instructor approval.

Open to 10th, 11th, and 12th grades. As 12th grade students (Seniors) during the second trimester will not be able to move to the next level (Peer III), only those Seniors who the Peer Counseling Coordinator believes will provide a positive impact to the class should be enrolled. 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 Tri	½ credit	10, 11, 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.

These courses also fulfill the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts.

Advertising Design	3 Tri's	3 credits	11, 12
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Prepare for an exciting career in Advertising Design, where you will develop creative approaches to promote products, services, and ideas for commercial use. The printing industry is growing fast and needs thousands of new workers; from design to the advertised product, the advertising industry offers an exciting and colorful career. This program is designed for students interested in careers in the advertising and graphics industry such as computer graphics, printing, digital photography, advertising design, and illustration. Emphasis is geared toward hands-on learning using state-of-the-art equipment to give each student the best possible training and job skills. College credits may be earned from Baker College, Davenport University & Delta College. Student clubs: Michigan Industrial Technology Education Society and Skills USA.

Graphic Communication	3 Tri's	3 credits	11, 12
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The printing industry is growing and changing fast and needs thousands of new workers; from design to the printed product. This program is designed for students interested in the graphics and printing industry in fields such as computer graphics, printing, photography, graphic design, screen printing, dye-sublimation, and illustration. Other projects include designing logos, calendars, ads, newsletters, senior graduation announcements, t-shirts, signs, animation and much more. PrintEd/SkillsUSA certification is offered and college credits may be earned from Baker College, Davenport University & Delta. Student club: Michigan Industrial Technology Education Society and SkillsUSA.

Insurance Leadership Academy	3 Tri's	3 credits	11, 12
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Opportunities in the insurance industry are endless. Insurance careers offer great earning potential, stability in a growing industry as well as a challenging and rewarding career path. This year long program allows students to explore the industry through a partnership with a top Michigan insurance company, Frankenmuth Insurance. Students enrolled in this program will spend five days a week in a classroom at Frankenmuth Insurance learning about insurance operations and careers while gaining valuable hands-on experience. This program will be partnered with a college, so the student will be earning college credits and is designed as a two-year program. At the end of two years, students will have had the ability to earn certifications in AINS 21-Property & Liability Insurance Principles; AINS 22-Personal Insurance; and AINS 23-Commercial Insurance. Transportation to and from Frankenmuth Insurance is the responsibility of the student and will be offered in the AM only.

Tuscola Technology Center Classes

Computer Tech Mgt	3 Tri's	3 credits	11, 12
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Students have the opportunity to become certified specialists in several computer and networking fields. Students focus on one of two areas: Network Administration or Digital Media. Network Administration covers PC Maintenance and Repair and Computer Networking. Digital Media covers Web Design, Video Editing, and Game Design. Skills taught are: installing cable, configuring routers, network administration, and network and computer diagnostics. Students will learn on software such as Adobe CS, Microsoft Office, LabSim certification and preparation software, Multimedia Fusion, Game Maker and Microsoft Visual Studio. Industry certifications offered include: CompTIA A+ and Network+ and CIW (Certified Internet Webmaster). Student Club: Business Professionals of America.

Culinary Arts	3 Tri's	3 credits	11, 12
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Teaches the basics of short order cooking and quantity cooking with a focus on teamwork, leadership skills, customer service and exceeding guest expectations. Students train in a modern commercial restaurant and bakery, moving through the different areas of instruction. Hospitality service continues to be one of the largest industries offering employment at many income levels depending on ability, experience and education. The Cleaver Café Restaurant, which is located in the Technology Center, is open to the public and offers table and conference/ banquet services. Students receive actual work experience with the public through operation of the restaurant. Students have the opportunity to work as part of the team in the *Cleaver Café* Restaurant. ServSafe and Pro-Start Certifications are offered.

Marketing & Business Mgt	3 Tri's	3 credits	11, 12
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The main objective of the Marketing & Business Management program is to develop competent workers in and for the major occupational areas within marketing. Another goal is to build an understanding of the wide range of social and economic responsibilities, including the right to engage in marketing in a free-enterprise system. A technology component (Moodle) is used to deliver much of the content enabling students to focus on special areas of interest such as sports, merchandising, and travel management. This program is based around marketing, sales, distribution, merchandising, management, and entrepreneurship. The National Professional Certificate in "Customer Service" is offered. Student club: DECA.

Nursing	3 Tri's	3 credits	11, 12
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Join the fastest growing career area with the health care industry. Gain first hand, on-the-job experience caring for patients in a local nursing home. Nursing Careers can open up a wide variety of employment possibilities and lead to a lifetime of satisfaction in helping others. This program is an advanced academic program for the self-disciplined and motivated student who is interested in pursuing a career in the health field. This is an exciting program that prepares students for articulation to Delta College, Baker College or Davenport University 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 of Michigan CNA exam. First Aid/CPR/AED certifications are offered. Student club: Health Occupations Students of America.

Careers in Education/Early Childhood	3 Tri's	3 credits	11, 12
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The Professions in Education Program prepares students for careers in education. Students will explore theories of educational and physical development from birth through the teen years. Students will have an opportunity to explore career choices through our licensed pre-school program and at local schools up to middle school level through work experience. The students will learn how to write lesson plans, select teaching strategies, become certified in CPR, First Aid, AED, and CDA (Child Development Associate), a national credential. Successful students may qualify to take the MTTC (Michigan Test for Teacher Certification) Basic Skills. This certification is a requirement for acceptance into a Michigan University College of Education.

Cosmetology	3 Tri's	3 credits	11, 12
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Learn the science of beautifying and improving the complexion, skin, hair, and nails in the Cosmetology Program. The classes are held at Howard's Beauty Academy in Caro. Here the students undergo 350 hours of class work and laboratory studying, and then have 1,150 hours of customer work guided by the experience of professional instructors. The students use technical, business, and people skills routinely throughout the day. This course is designed to prepare students for the state exam and licensing process. (NOTE: This course requires 100 hours or more of participation during the summer between the junior and senior year.) Certification is offered through the State of Michigan. Student club: SkillsUSA.

Law Enforcement/Protective Service	3 Tri's	3 credits	11, 12
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Students will have an opportunity to experience the challenge of working in the public sector and the importance of community involvement. Law Enforcement/Protective Services is a program that offers the introduction of all aspects of the criminal justice profession. Students will have the opportunity to participate in work experience with various criminal justice organizations. They will work with law enforcement department members to enhance their training and education. The program prepares students to work in a professional and courteous manner with members of the community. Samplings of law enforcement/protective services organizations participating are local police departments, court systems, correctional facilities, volunteer agencies, and many more. Student club: SkillsUSA

Agri-science & Natural Science	3 Tri's	3 credits	11, 12
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All students within the Agriscience program will gain a basic understanding of the exciting and dynamic industry of Agriculture. Topics to be covered will be agribusiness, leadership, basic animal science, basic plant science, and an intro into natural resources; these areas all intertwine in the Agricultural Industries and should be covered by every student. Students will be involved in new technologies through practical applications in the large animal learning facility, hydroponic greenhouse, landscaping areas, and horticulture greenhouse. Students may select projects from one or more of the following content areas. Each project is designed to enhance the students experience through "learn by doing".

- **Horticulture/Plant Science**

Horticulture explores the fields of ornamental greenhouse production, landscaping, and floral arranging. Students are taught proper methods of floral design, planting, pruning, watering, fertilizing, pest identification, pest control, and plant identification, plant nutrition, genetics, reproduction, intro to horticulture, integrated pest management, crop production, urban gardening, equipment handling, and hydroponics. This area will be extremely hands on and production based. Students will be involved in working in the greenhouse setting, landscape construction, and retail sales. Student Club: FFA

- **Animal Science/Zoology (Large Animal Care)**

Animal Science will explore the animal industries of large animals. Students will care for a number of animals throughout the year including: tilapia, chickens, sheep, pigs, dairy calves, and other animals. Topics covered include Nutrition, Genetics, Reproduction, Health Care, Selection, Evaluation, Animal Products and by-products, Equine, and Veterinary Medicine. Student Club: FFA.

Automotive Body Repair	3 Tri's	3 credits	11, 12
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The Auto Body class helps students to develop the hands-on skills necessary to repair damaged vehicles. The Technology Center has a large auto body repair shop that has all of the tools and equipment found in most independent body shops and dealerships. Students will learn painting and refinishing. Students learn to properly use tools and equipment needed for each job and to develop safe working practices and habits. Additional areas of instruction include: shop safety, metal finishing, welding, panel replacement and estimating. This program is nationally certified by ASE & NATEF and offers student certification through the State of Michigan, ASE and I-CAR. Student Club: SkillsUSA

Automotive Tech	3 Tri's	3 credits	11, 12
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The Automotive Technology Program at TTC is intended to prepare students to be able to take and pass the National Institute Auto Service Excellence Test and to enter the field of work as an advanced Apprentice Technician. Due to the technical nature of the field of Automotive Technology and the amount of knowledge required to enter the field, this is considered a two-year program. Six technical areas of certification can be covered. Upon completion of the first year, a student should be ready to take at least two or more of the certification tests. This program is nationally certified by ASE & NATEF and offers student certification through the State of Michigan. Student Club: SkillsUSA and Michigan Industrial and Technology Education Society.

Construction Tech	3 Tri's	3 credits	11, 12
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During the first year, students learn the basic skills of residential home construction. Students can apply their skills while building a residential home on campus. Exciting projects are based on units in carpentry, masonry and electrical wiring. Field trips and tours help students gain current information about building trends and methods. Students have the opportunity to join a student youth club that provides opportunities to further develop career skills, leadership, teamwork, and personal skills needed by employers. This program offers SkyTrak/Rough Terrain Forklifts certification and college credits may be earned through Delta College. Student club: Michigan Industrial Technology Education Society & SkillsUSA.

Electronics	3 Tri's	3 credits	11, 12
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A successful Electronic Technician is a highly skilled builder and troubleshooter of electronic equipment. The Electronics program provides the students with the knowledge and hands-on skills required in the workplace. Students will cover design, repair, development, manufacturing, and testing of electrical and electronic components. Products and systems for commercial, industrial, medical, military, and scientific purposes are also explored. Students in this program are trained in the following areas: basic electricity, computers, solid-state and digital electronics, electronic communication, robotics and automation, and consumer electronics repair. . Student club: Michigan Industrial Technology Education Society and SkillsUSA.

Power Tech	3 Tri's	3 credits	11, 12
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Discover the world of mechanical repair. With a background in Power Technology, you may choose a career in engine repair, power transmission, hydraulics, charging/starting systems, welding fabrication, parts or sales. You will work on preventive maintenance, brake systems, electrical systems, engines, transmissions, and differentials. Students will use a variety of tools and test equipment in their daily routine. This highly technical and specialized program will train you for many new job opportunities. This program is nationally certified by ASE & NATEF and offers student certification through the State of Michigan. College credits may be earned through Delta College, Ferris State University and the University of Northwestern Ohio, Ohio Tech, Lincoln Tech & Universal Technical Institute. Student Club: SkillsUSA

Welding & Fabrication	3 Tri's	3 credits	11, 12
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Welding is a leader of today's high tech approach to manufacturing. Students will have the opportunity to learn and gain expertise in all types of welding processes including: plastic welding, wire welding, plasma cutting, welding torches, and mig, tig and arc welding. Students have the opportunity to obtain the American Welding Certification. This certification is acknowledged by the State of Michigan welding certification. College credits may be earned through Delta College. Student Clubs: SkillsUSA and Michigan Industrial and Technology Education Society.

Placement Services/BIST	3 Tri's	3 credits	11, 12
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Tuscola Technology Center is able to provide job placement assistance to all students, through either your program instructor or Placement Office. TTC job placement assistance is designed to help you find full-time, part-time or temporary jobs, as well as, work-based experience for credit with the following programs: Apprenticeships, Co-Op, Work Experience or Job Shadowing.

BIST (Business & Industry Site Training) is offered to students who cannot obtain this type of curriculum/training at TTC or at their home school. The training is offered at the site of an employer and the experience is for a full year. The students are not paid; however, they receive school credit. The program must operate under a state approved CIP code. BIST employers: Nancarrow Taxidermy Studio, Miss Erin's Dance Studio, Sue's School of Dance, Maple Grove Vet Clinic, Larsen Veterinary Clinic, Millington Veterinary Clinic, Hills & Dales Center for Rehab (MARC), Dr. Joseph Vella, D.D.S, Cass City Middle School, Kingston Schools, USA Elementary, Millington Schools and Highland Pines School, TI Automotive, Caro Veterinary Clinic, Tuscola County Probate Court, Narayan Physical Therapy, Fowler Center, Akron-Fairgrove Great Start Readiness Program and Caro Schools.