

PROGRAM OF STUDIES

COLDWATER HIGH SCHOOL

2023-2024



“Prepare for the Future”

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PLANNING YOUR HIGH SCHOOL CAREER

We recommend that you plan wisely for your school career. You will then have a “blueprint” to follow from year to year. A single course selection may have a significant effect on your future academic or vocational plans. You must take great care to make appropriate course choices. We encourage you to involve your parents, teachers, and your guidance counselor in your planning.

As you plan your schedule, please make note of the prerequisite courses. For example, you must have passed Algebra 1 before you may enroll in Algebra 2. Also, take note of any special requirements. Some courses have fees or require special abilities.

If your plans include Tri-Star vocational courses during your junior and senior years, you will want to make certain you earn enough credits in your freshman and sophomore courses to allow you to participate in the longer time blocks required in vocational programs. Also, the Tri-Star staff views daily attendance as an important factor for admission into many of the Career Tech programs.

If your plans include college, become familiar with the admission requirements of the colleges to which you plan to apply. Make sure you choose the courses you will need to meet those requirements.

Requirements for most colleges

- 4 years of English, with emphasis on writing
- 4 years of math (Algebra 1, 2 and geometry)
- 3 years of social studies
- 3 years of science
- 2 years of foreign language (some are requiring 3)
- 1 year of visual or performing arts

Eighth grade students are asked to fill out a TENTATIVE schedule form for their entire four-year high school career. The information they provide will allow the school to plan effectively for future needs.

For assistance in your planning and course selection decisions, call one of the following:

Mrs. Natalie Kanney, Guidance Counselor (9-12)
Mr. Jason Hemmelgarn, High School Principal

419-678-4821
419-678-4821

4-YEAR EDUCATIONAL PLAN...TAKE CHARGE!

This chart can be used to plan your classes for the next four years. First, plan your 9th grade classes and then pencil in the classes you expect to take in the 10th, 11th, and 12th grades. These choices may change later depending on your interests and career plans. Check with your counselor to make sure your schedule meets your high school's graduation requirements. Keep this through all four years of high school. Circle the classes you plan to take for your educational plan.

| Subject Area of Study | College Prep Req. | Local Grad Requirements | 9th | 10th | 11th | 12th |
|---|---|--|---|---|---|--|
| English | 4 yrs./units | 4 credits | English 9 | English 10 | English 11 Honors English 11 | English 12 |
| Math | 4 yrs./units | 4 credits | Algebra 1 Algebra IB Geometry | Geometry Algebra IB2 Algebra 2 | Advanced Math Informal Geometry Algebra 2 *AP Pre-Calculus Practical Algebra 2 | Senior Math *AP Calculus *AP Statistics *AP Pre-Calculus Statistics Advanced Math |
| Sciences | 3 yrs./units | 3 credits | Intro to Physics Intro to Chemistry Physical Science Biology STEM-Intro to Eng. Design | Intro to Physics Intro to Chemistry Practical Biology A Practical Biology B Physical Science Biology Chemistry STEM-Intro to Eng. Design STEM-Computer Sci./Robotics/FTC Physiology & Prin. of Biomed. Sci. | Intro to Physics Intro to Chemistry Intro to Ecology Intro to Zoology Practical Biology A Practical Biology B Earth Science Space Science Physical Science Biology Chemistry Physics *AP Chemistry STEM-Intro to Eng. Design STEM-Computer Sci./Robotics/FTC Physiology & Prin. of Biomed. Sci. | Intro to Physics Intro to Chemistry Intro to Ecology Intro to Zoology Practical Biology A Practical Biology B Earth Science Space Science Physical Science Biology Chemistry Physics *AP Chemistry *AP Physics STEM-Intro to Eng. Design STEM-Computer Sci./Robotics/FTC Physiology & Prin. of Biomed. Sci. |
| Social Studies | 3 yrs./units | 3 credits | World Studies | U.S. Studies (or AP American History) | *AP American History *AP United States Gov. & Politics Electives: Psychology Sociology | Civics *AP American History *AP Government *AP United States Gov. & Politics Electives: Psychology Sociology |
| Foreign Language | 2 or 3 years/units | | Spanish 1 | Spanish 2 | Spanish 3 | Spanish 4 |
| Fine Arts | 1 year | *1 year unless student is Career Tech | | | | |
| Applied Arts: Business/ Computers Family and Consumer Science Industrial Technology Vocational Agriculture | Take as needed through the 4 years | | | Financial Literacy | Financial Literacy | Financial Literacy |
| Health & Physical Education | | ½ unit Health ½ unit P.E. | Health Fitness & Wellness for Life Strength & Endurance Training for Life | Fitness & Wellness for Life Strength & Endurance Training for Life | Fitness & Wellness for Life Strength & Endurance Training for Life | Fitness & Wellness for Life Strength & Endurance Training for Life |
| Other Electives: Tri-Star | | | | | | |

TOTAL UNITS: 21 units

CREDITS REQUIRED BY COLDWATER HIGH SCHOOL

English Language Arts - 4 credits
Health – ½ credit
Mathematics - 4 credits
*Physical Education - ½ credit
Science - 3 credits
Social Studies – 3 credits
(Including American History and Civics)
Financial Literacy
– ½ credit (class of 2024 and 2025)
– 1 credit (class of 2026 and beyond)
Electives
– 4 ½ credits (class of 2024 and 2025)
– 4 credits (class of 2026 and beyond)
Fine Arts – 1 year or 2 semesters
completed between grades 9-12 UNLESS
students are on a career technical
pathway.

Minimum credits required for graduation
are 21.

*Students may earn (1/2) PE credits in one
or a combination of the ways listed below:

- 1) Taking PE course(s) in High School
- 2) P.E. Waiver (A student who, during high school, has participated in interscholastic athletics, marching band, or cheerleading for at least two (2) full seasons is not required to complete any physical education courses as a condition to graduate. However, the student is required to complete one-half (1/2) unit, consisting of at least sixty (60) hours of instruction, in another course of study.
- 3) See Counselor for other possible options.

****Students must receive a cumulative passing score on a series of end of course exams.**

****Students must also obtain (2) Seals as they apply.**

CRITERIA FOR DIPLOMAS GRANTED BY COLDWATER HIGH SCHOOL

HONORS DIPLOMA

Students may earn an honors diploma by meeting the following criteria:

College Preparatory Program

The student who completes the high school academic curriculum shall meet at least seven of the following eight criteria:

- 1) Earn at least four units of mathematics which shall include algebra I, algebra II, geometry, and another higher-level course or a four-year sequence of courses which contains equivalent content
- 2) Earn at least four units of science including two units of advanced science
- 3) Earn four units of social studies
- 4) Earn either three units of one foreign language or two units each of two foreign languages
- 5) Earn one unit of fine arts
- 6) Maintain an overall high school grade point average of a least 3.5 on a four-point scale up to the last grading period of the senior year; or
- 7) Obtain a composite score of 27 on the American college test's ACT assessment (excluding the optional writing test) or a combined score of 1280 on the College Board's SAT verbal and mathematics sections (excluding the required writing section).
- 8) Earn four units of English

Vocational or Technical Education Program

The student who completes an intensive career-technical education curriculum shall meet at least seven of the following eight criteria:

- 1) Earn four units of English
- 2) Earn at least four units of mathematics which shall include algebra I, algebra II, geometry, and another higher-level course or a four-year sequence of courses which contains equivalent content
- 3) Earn at least four units of science including two units of advanced science
- 4) Earn four units of social studies
- 5) Earn four units in a career-technical education program that leads to an industry-recognized credential, results in an apprenticeship or is part of an articulated career pathway, which can lead to post secondary credit. If the student's program design does not provide for any of these outcomes, then the student must achieve the proficiency benchmark established for the applicable Ohio career-technical competency assessment or the equivalent
- 6) Achieve the proficiency benchmark established for the Ohio Career-Technical Competency Assessment (available at <http://www.webxam.org/info-docs.asp>), or equivalent assessment aligned with state-approved and industry validated technical standards; or

- 7) Maintain an overall high school grade point average of at least 3.5 on a four-point scale up to the last grading period of the senior year; or
- 8) Obtain a composite score of 27 on the American college testing service's ACT assessment (excluding the optional writing test) or a combined score of 1280 on the college board's SAT verbal and mathematics sections (excluding the score obtained on the required writing section).

CREDIT FLEXIBILITY

The Board of Education recognizes that an effective educational program is one that provides opportunities for students to customize aspects of their learning around their respective needs and interests. Credit flexibility is one method to motivate and increase student learning by allowing access to more resources, customization around individual student needs and the use of multiple measures of learning. The plan does not eliminate Carnegie units or "seat time" requirements altogether. Rather, it retains seat time as one option and expands the number of options for earning credit by demonstration of subject area competency and structures that support it irrespective of any time requirements. With credit flexibility, students can earn credit in three ways, or in a combination of these ways:

1. By completing traditional coursework.
2. By testing out or otherwise demonstrating mastery of the course content; or

3. By pursuing one or more educational options (e.g., distance learning, post-secondary options coursework, educational travel, independent study or an internship).

Students with interest in this aspect of their learning should contact the high school guidance counselor for a packet of information.

***AP COURSES**

With any passing AP test score (3 or higher); the test fee will be reimbursed.

COLLEGE CREDIT PLUS PROGRAM

The College Credit Plus Program has been established to permit high school students in grades 9 - 12 to earn college and high school graduation credit through the successful completion of college courses. The program is intended to provide expanded opportunities for appropriately qualified high school students to experience course work at the college or university level. Any high school student admitted to a course by an institution of higher education will be expected and required to perform at the same level as the institution's regular students.

Students who are interested in the College Credit Plus Program should contact the guidance counselor to receive specific information about it. The intent form must be returned to the guidance counselor by April 1st. Students and their parents must understand the many opportunities, limitations, and responsibilities that are involved in the program. See your Guidance Counselor for information.

AGRICULTURE PRE-APPRENTICESHIP PROGRAM

The Agriculture Pre-Apprenticeship option allows students to study agriculture at Coldwater High School including job experiences and work toward a pre-apprenticeship certificate, which can be applied for Rhodes State College credit toward Ag. Business Certificate requirements. A pre-apprenticeship in Agriculture can also apply to other apprenticeship programs after high school.

TECH PREP PROGRAM

TECH PREP is a program, which connects high school courses to a technical skill area. The Tri-Star Compact has several articulation agreements with technical and trade schools, which allow students to gain vocation credits at the high school level, which may also be applied toward a two-year technical degree. For more information, see your guidance counselor.

TRI-STAR VOCATIONAL CLASSES

- 1900 Welding (Jr.)
- 1901 Welding (Sr.)
- 1902 R.E.C. Tech (Jr.)
- 1904 R.E.C. Tech (Sr.)
- 1906 Precision Machining (Jr.)
- 1908 Precision Machining (Sr.)
- 1910 Automotive (Jr.)
- 1914 Automotive (Sr.)
- 1915 Engineering Technology/CAD
- 1918 Construction (Jr.)
- 1920 Construction (Sr.)
- 1924 Med Prep Physiology (Jr. & Sr.)
- 1925 Med Prep (Jr.)
- 1926 Med Prep (Sr.)
- 1935 Graphic Communications (Jr.)
- 1936 Graphic Communications (Sr.)
- 1938 Medical Information Technology

**TRI-STAR VOCATIONAL CLASSES -
continued**

1946A,B Agriculture Info. Tech.
(AG Mech) (Jr.)

1948A,B Agriculture Info. Tech.
(AG Mech) (Sr.)

1984 Early Childhood (Jr.)

1985 Early Childhood (Sr.)

1987 Cyber Security (Jr.)

1988 Cyber Security (Sr.)

1994 Interactive Media (Jr.)

1994S Interactive Media (Sr.)

1921A,B Animal Health (Vet Tech) (Jr.)

1922A,B Animal Health (Vet Tech) (Sr.)

SCHEDULE CHANGES

Throughout the 3rd quarter, a series of scheduling activities take place to assist each student in selecting appropriate courses for the next school year. First, Mrs. Kanney will meet with students in classrooms to discuss the scheduling process and review graduation requirements. Teachers will also help recommend courses to students. Next, students and parents should then carefully review the course options to select courses for the following school year. Lastly, Mrs. Kanney will then meet again with students one on one to review their selections and verify graduation status. The final step in the process allows students and parents the opportunity to review, correct, and/or change selections. It is expected that students develop a sound educational plan and an appropriate schedule prior to the end of the current school year.

Changes in course requests may be made any time in the months between the scheduling meeting with the counselor in February/March through the last day of school for the year. After that, all course requests will be finalized. The only course changes that will be made in the fall or at the beginning of the 2nd semester will be those necessitated by schedule conflicts, failure of a course, or data entry errors.

Reasons That May Justify a Schedule Change

1. Semester imbalances.
2. Replacement of summer school course(s) successfully completed.
3. Adjustments that accommodate special education students' needs.
4. Inappropriate course level as dictated by the prerequisite course final grade and/or teacher/counselor recommendation.
5. Obvious program errors such as the omission of a required subject or selected subject.

Please Note: ALL FEES ARE SUBJECT TO CHANGE

AGRICULTURE

AGRICULTURE, FOOD & NATURAL RESOURCES 1836 1 year 1 credit

Purpose: This is an introductory course for high school students that have not been previously enrolled in an agricultural class.

Content: This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to a variety of agricultural sectors including:

- Agricultural careers
- Soils, natural resource management
- Food science
- Animal science
- Plant & horticultural science
- Power technology through shop safety and a woodworking project
- FFA organization and Supervised Agricultural Experience programs.
- Communication, leadership, business and record keeping skills

Special Note: **Class fee estimate \$35.00. Membership to the National FFA Organization is an additional fee of \$30.00.**

PLANT AND ANIMAL SCIENCE 1837 1 year 1 credit

Purpose: Recommended for sophomore students who are looking to advance in the pathway of agricultural education.

Content: In this course, students will apply knowledge of plant and animal science to the agriculture industry. They will be introduced to:

- Plant anatomy and Physiology, nutrition, deficiencies, and plant growing environments
- Animal classification and selection, body systems, welfare and behavior in relation to the production of animals
- Business principles and professional skills used in these industries
- A shop-based project

Prerequisite: Agriculture, Food & Natural Resources (or teacher permission)

Special Note: **Class fee estimate \$35.00. Membership to the National FFA Organization is an additional fee of \$30.00. This will count as a science credit, but will not take the place of a Biology credit.**

MECHANICAL PRINCIPLES 1841 1 year 1 credit

Purpose: Recommended for junior students who are looking to advance in the pathway of agricultural education.

Content: Students will engage in the engineering principles utilized in animal and plant production systems. Topics include:
Electrical theory and wiring
Hydraulic and pneumatic theory
Metallurgy of hot and cold metals
Small air-cooled engine repair and maintenance
Concrete construction
Safety, recordkeeping, communication and leadership skills

Prerequisite: A third year member with any previous agriculture courses (or teacher permission).

Special note: **Class fee estimate \$40.00. Membership to the National FFA Organization is an additional fee of \$30.00.**

BUSINESS MANAGEMENT IN AGRICULTURE 1839 1 year 1 credit

Purpose: Recommended for senior students who are looking to advance in the pathway of agricultural education.

Content: In order to learn the components of agricultural business, students will:

- Develop a business plan with financial reports and goals
- Apply marketing and sales techniques
- Identify business structures
- Learn about leadership, and management styles and skills
- Apply concepts of ethics and professionalism used in the industry
- Demonstrate recordkeeping, communication and leadership skills
- Complete a shop-based project

Prerequisite: A fourth year member with any previous agriculture courses (or teacher permission)

Special note: **Class fee estimate \$35.00, which includes membership fees for FFA.**

AGRICULTURAL CAPSTONE 1840 1 year 1 credit

Purpose: Recommended for senior students who have a planned supervised agricultural experience (SAE). This course gives the students the option to complete their SAE during or after school hours. The student will be required to work a minimum of 450 hours and keep detailed records on the online AET record keeping system for a class grade. Seniors who are currently taking all of the required courses to meet graduation requirements will be given permission to leave school up to a half day to work on their SAE.

Prerequisite: Concurrent enrollment in Business Management in Agriculture. Must also be a fourth-year member.

Special note: **No class fee**

ART

INTRODUCTION TO 2-DIMENSIONAL ART 1109 1 semester ½ credit

Purpose: Introduction to Two-Dimensional Art is a semester course based on the Ohio Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and art production. Students will be given the opportunity to develop their skills and abilities using various media.

Content: Students will work with art media such as graphite pencils, colored pencils, ink, tempera paint, oil pastels, chalk pastels, and charcoal. Students will make informed judgments about artwork using the Elements and Principles of Design. Students will create two-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills.

Special note: This class is open to all grade levels and is a prerequisite for many Art classes.

Class fee estimate \$25.00, which include a personal sketchbook and cost of all art media.

INTRODUCTION TO 3-DIMENSIONAL ART 1108 1 semester ½ credit

Purpose: Introduction to Three-Dimensional Art is a semester course based on the Ohio Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and art production. Students will be given the opportunity to develop their skills and abilities using various media.

Content: Students will work with art media such as cardboard, poster board, paper, clay, plaster, paper Mache, foam core board, and found objects. Students will learn various 3/D building techniques such as collage, relief, additive and subtractive sculpting. Students will make informed judgments about artwork using the Elements and Principles of Design. Students will create three-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills.

Special note: This class is open to all grade levels and is a prerequisite for Ceramics and Sculpture.

Class fee estimate \$25.00

DRAW/PAINT 1 1110

1 semester ½ credit

Purpose: Draw/Paint is a semester course based on the Ohio Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and art production. Students will focus on developing and strengthening their skills and abilities using various media.

Content: The students will work from a variety of subject matter. They will use media such as graphite pencils, charcoal, chalk, colored pencils, acrylic paint, pen and ink, and watercolors. Students will make informed judgments about artwork using the Elements and Principles of Design. Students will make informed choices in the selection of materials and techniques needed to solve visual problems. Students will solve visual art problems through skills demonstrated, imagination and observation.

Prerequisite: Introduction to 2/D Art

Special note: This course is a continuation of 2/D Art.

Class fee estimate \$25.00, which include a personal sketchbook and cost of all art media.

DRAW/PAINT 2 1145

1 semester ½ credit

Purpose: Draw/Paint 2 is a semester course based on the Ohio Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and art production. Students will focus on developing and strengthening their drawing and painting skills and abilities using various media.

Content: The students will work from a variety of subject matter. Students will use media such as graphite pencils, chalk, charcoal, colored pencils, ink, watercolors, gouache, acrylic paint. Students will prepare artworks for display that demonstrate high levels of craftsmanship. Solve visual art problems that demonstrate skill, imagination and observation. Explain artistic processes from idea conception to completion of a work of art using descriptive and arts-specific terminology.

Prerequisite: Introduction to 2/D Art and Draw/Paint 1

Special note: This course is a continuation of Draw/Paint 1.

Class fee estimate \$25.00

CERAMICS 1135

1 semester ½ credit

Purpose: Ceramics is a semester course based on the Ohio Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and art production. Students will focus on developing and strengthening their 3/D ceramic skills and abilities. This one semester course offers experiences in the creation of sculpture, hand-built, and wheel-thrown methods.

CERAMICS – CONTINUED

Students will gain basic knowledge, understanding, and skills in creating pottery.

Content: The students will use various hand-building techniques such as pinch pot, coil, and slab design to create their pottery. Students will explore additive and subtractive techniques. Glazing and various surface decoration techniques will also be explored.

Prerequisite: Introduction to 3/D Art

Special note: **Class fee estimate \$25.00**

SCULPTURE 1130 1 semester ½ credit

Purpose: Sculpture is based on the Ohio Academic Standards for Visual Art. Students in this course build on the sequential learning experiences of Introduction to 3/D Art that encompass art history, art criticism, aesthetics and production and lead to the creation of portfolio quality artwork. Students explore the historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create three-dimensional works of art, reflect upon the outcomes and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills.

Content: The students will gain more knowledge, skill, and understanding of how to use different materials to create 3-dimensional works of art. Students will work with additive and subtractive sculpting. Students will design and construct jewelry pieces. Different methods and techniques of creating sculptures will be explored through the use of a variety of different materials such as paper, plaster, clay, wire, foam core board and paper Mache.

Prerequisite: Introduction to 3/D Art

Special note: **Class fee estimate \$35.00**

CERAMICS 2 - ADVANCED 1141 1 semester ½ credit

Purpose: This is a course based on the Ohio Academic Standards for Visual Art. Students in Ceramics 2 engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students create works of art in clay utilizing the processes of hand building, molds, wheel throwing, slip and glaze techniques and the firing processes. They reflect upon and refine their work. Students explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art.

CERAMICS 2 – ADVANCED – CONTINUED

Content: This class encourages the student to explore and build upon their knowledge learned in Ceramics. The students will continue to use various hand-building techniques such as slab, coil, pinch, molds, and wheel throwing to create their pottery. Students will experiment with different glazing methods to complete their projects. Students are expected to do research and be self-motivated and self-directed.

Prerequisite: Introduction to 3/D Art and Ceramics

Special note: **Class fee estimate \$30.00**

PHOTOGRAPHY 1120

1 semester ½ credit

Purpose: Photography is a course based on the Ohio Academic Standards for Visual Art. Students in photography engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works, creating photographs utilizing a variety of tools. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students may utilize the resources of art museums, galleries, and studios, and identify art-related careers.

Content: The students will learn about the history of Photography, career options, the functions of the DSLR camera and how they work, creating a strong composition using the Elements and Principles of Design, how lighting affects an image, and exploring Photoshop software to enhance their photographs.

Prerequisite: Introduction to 2/D Art (or with teacher approval).

Special note: Open to juniors and seniors only. A DSLR camera will be provided or a student may use their own.

Class fee estimate \$30.00

ART INDEPENDENT STUDY 1146

1 semester ½ credit

Purpose: This course provides opportunities for self-motivated students who have successfully completed advanced level courses. Students will work on a continued development of skills and creativity by guided independent art. By the end of this course, students should have a variety of finished, highly developed portfolio pieces of artwork.

ART INDEPENDENT STUDY - CONTINUED

Content: Art Independent Study is offered to provide individual students with the opportunity to explore special talents or interests. Students will work with a classroom teacher to set personal learning goals and to determine the type of project or learning experience they would like to pursue. The students will select their focus from Photography, 2/D artwork, and/or 3/D artwork. The students will be graded on self-motivated participation, in-class and out of class work, project preparation, research, etc.

Prerequisite: Beginning and Advanced art classes and teacher approval.

Special note: This class is open to seniors with an interest in pursuing an art career.

Class fee estimate: Same as corresponding Class

BUSINESS/COMPUTERS

BUSINESS PRINCIPLES 1160

1 semester ½ credit

Purpose: This course gives students the opportunity to explore our economic system through the study of business, labor, government, and consumers. We will explore the global economy and the dynamics of business in a changing world.

Content: Text, lectures, workbook problems, Internet activities, and classroom discussions.

Special note: This is an excellent course for all students, giving them a good background in basic business concepts.

ACCOUNTING 1 1175

1 year 1 credit

Purpose: Students will learn financial responsibility through a hands-on approach. They will progress through two accounting cycles and will learn the concept of debits and credits, journalize transactions, post to ledgers, figure payroll, and complete financial statements using online Accounting software.

Content: Text, online working papers, and reinforcement activities.

Special note: Open to sophomores, juniors and seniors. This course is highly recommended for any student considering pursuing a degree in any business-related field. Most colleges require two semesters of accounting in any of their business programs.

Class fee estimate \$30.00 to 40.00

ACCOUNTING 2 1190

1 year 1 credit

Purpose: Advanced Accounting provides the students with the opportunity to apply the basic principles that they learned in the first-year course and to build on those concepts. Students will study departmentalized accounting, accounting adjustments and valuation, and corporation accounting.

Content: Text, online working papers, and automated accounting online will be used to prepare financial records of a business.

Prerequisite: Accounting 1

Special note: Open to juniors and seniors.

Class fee estimate \$30.00 to 40.00

COMPUTER APPLICATIONS 1210, 1211 1 semester ½ credit

Purpose: This course allows the students to work with Microsoft Office applications as well as other software. After completing the required software, students can choose the software they want to learn. Students work independently, and are responsible for their conduct/work ethic.

Content: All students must complete the beginning levels of Microsoft Office 2016, which includes Word, Excel, Access, and PowerPoint.

Special note: It is recommended that all students take at least one semester of Computer Applications. A background in the basic Microsoft Office programs of Word, Excel, Access, and PowerPoint is extremely beneficial to any student entering college or the workforce.

PRINCIPLES OF MARKETING 1221 1 semester ½ credit

Purpose: Principles of Marketing provides a basic introduction to the scope and importance of marketing in the global economy. Emphasis is placed on oral and written communications, mathematical applications, problem solving, and critical thinking skills as they relate to advertising/promotion/selling, distribution, financing, marketing-information management, pricing, and product/service management.

Content: Text, lectures, internet activities, simulations, projects and classroom discussions.

Special note: Open to sophomores, juniors and seniors. This is an excellent course for students to get a well-rounded experience in the world of Marketing that will help them in all career endeavors. Employers like students to have a basic understanding of marketing because marketing deals with people and how they think.

ENTREPRENEURSHIP 1222 1 semester ½ credit

Purpose: Entrepreneurship introduces students to entrepreneurship and develops skills and tools critical for starting and succeeding in a new venture. The entrepreneurial process of opportunity recognition, innovation, value proposition, competitive advantage, venture concept, feasibility analysis and “go to” market strategies will be explored through mini case studies of successful and unsuccessful entrepreneurial start-ups. Additionally, topics of government and legal restrictions, intellectual property, franchising location, basic business accounting, raising start-up funding, sales and revenue forecasting, and business plan development will be presented through extensive use of word processing, spreadsheet, and presentation software.

Content: Text, lectures, internet activities, simulations, projects, business plan creation and classroom discussions.

Suggested

Prerequisites: Principles of Marketing, Business Principles

ENTREPRENEURSHIP – Continued

Special note: Open to juniors and seniors. This course is great for any student wanting to pursue college or heading right into the workforce. It gives them an in depth look at overall business and marketing concepts. Students who want to pursue business and marketing degrees or students who want to run their own business or even take over the family farm.

FINANCIAL LITERACY 1171 1 year 1 credit

Purpose: This course is designed to enable students to plan and manage their personal finances and take financial responsibility as citizens and consumers. The topics covered are those that will benefit them throughout their lifetime. Topics include financial planning, budgeting, credit, saving, investing, banking, identity theft, spending, taxes, insurance and career exploration.

Content: Classroom discussion, Internet activities, and guest speakers.
Special note: This is a required course for the class of 2026 and beyond. It is open to sophomores (especially those pursuing Tri Star) through seniors, but is preferably taken junior or senior year.

FAMILY AND CONSUMER SCIENCE

FOOD & NUTRITION 1365

1 semester ½ credit

Purpose: A semester course that will help the student make choices that promote nutrition, wellness, and good health. Learning will occur in class and lab settings.

Content: The student will be given the opportunity to learn about why you eat as you do, how the foods you eat affect the body, how to manage special dietary needs, and how to plan and prepare meals for good health.

Special note: Class fee estimate \$25.00

FOOD PREPARATION AND PRINCIPLES 1366

1 semester ½ credit

Purpose: A semester course designed to help the student gain knowledge of food science and a proficiency in the application of food preparation techniques and principles. Learning will occur in class and lab settings.

Content: Students will learn about a variety of food topics and conduct comparison and preparation labs for each topic. Topics may include: Food Packaging, Grain Products, Protein Foods, Vegetables, Fruits, and Candy.

Special note: Class fee estimate \$25.00

GLOBAL FOODS 1351

1 semester ½ credit

Purpose: A semester course designed to allow students to compare cuisines, ingredients, cooking methods, and food customs of various cultures. Learning will occur in class and lab settings.

Content: The influence of traditions and regional and cultural perspectives on food choices and culinary practices will be emphasized. Students will examine the issues and conditions that affect the availability and quality of food in the global market, and apply higher level cooking techniques. Possible regions to explore include: Latin America, Caribbean, Spain, Portugal, Greece, Germany, France, Italy, Japan, China, Africa, as well as the regions of the United States.

Special note: Class Fee estimate \$30.00

PARENTING AND CHILD DEVELOPMENT 1375

1 semester ½ credit

Purpose: A semester course designed to help individuals develop skills to encourage proper development, promote positive self-esteem, and establish self-discipline in children.

Content: Students will learn about readiness for parenthood, the roles and responsibilities of parenthood, pregnancy and birth, development (emotional, social, physical, and intellectual) from birth to six years old, proper toy selection, health and safety issues, and appropriate guidance strategies. A field trip to the hospital and local daycare may be included as well as opportunities to observe or work with children.

FOREIGN LANGUAGE

Special note: Foreign Language is one of the criteria for the CHS Honors Diploma. See details in the Program of Studies (pages 4 & 5). Foreign Language (2-3 years) is an admission requirement of most major universities. [At the university level, many fields of study require an intermediate level Proficiency (e.g. 4 semesters) in Foreign Language as a graduation requirement.]

SPANISH I 1250 1 year 1 credit
Purpose: Serves as an in **target language** introduction to the Spanish language and the cultures of Spain and Latin America, as well as the Hispanic culture in the United States.
Content: Focuses on speaking, reading, writing and listening comprehension with a grammatical involvement in the **target language**. A cultural emphasis is given as a means of teaching the language. The natural approach using the language as a means of teaching the language is utilized. Students should expect at least 50% of the class to be conducted in the **target language** at the beginning of year and 75%-100% by the end of the second semester.
Prerequisite: At least a "C" average in English.
Special note: The majority of universities requires two years of foreign language classes at the college level and encourages language study at the high school level. Proficient students may be placed beyond or be able to test out of entry-level classes.
Class fee estimate - varies

SPANISH II 1255 1 year 1 credit
Purpose: Serves as an in **target language** review of vocabulary and grammatical concepts learned during first year and then continues with additional vocabulary and new grammatical structures. Designed to give students required practice in **target language** while providing a purposeful overview of continued grammatical and linguistic facets of the **target language**. Seventy five percent to 100% of the class will be taught in the **target language**.
Content: Advanced level of vocabulary and grammatical concepts are presented in preparation of literary study. Varied exploration in the **target language** of culture and language through varied methods.
Prerequisite: Spanish I - with a signature from Spanish 1 Instructor.
Special note: **Class fee estimate – varies**

SPANISH III 1260

1 year

1 credit

Purpose: A continuation of the development of proficiency in the **target language**. Eighty percent to 100% of the class will be taught in the **target language**.

Content: First and second year grammatical concepts will be reviewed and reinforced, as well as new structures in the **target language**. A continuation of making language usage as authentic as possible by using as much authentic material as possible in the classroom.

Prerequisite: Spanish II – with a signature from the Spanish II Instructor.

Special note: **Class fee estimate - varies**

SPANISH IV 1261

1 year

1 credit

Purpose: To facilitate student development in speaking, reading, writing, and listening comprehension and cultural knowledge by continual study and conduction of the class nearly completely in **target language**. Ninety-five percent to 100% of the class will be taught in the **target language**.

Content: Grammatical concepts will be reviewed as needed in the **target language**. A continuation of making language usage as authentic as possible by using as much authentic material as possible in the classroom.

Prerequisite: Spanish III

Special note: **Class fee estimate - varies**

HEALTH

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| HEALTH | 1300 | 1 semester | ½ credit |
| Purpose: | To give the students basic information, understanding and tools so they become more caring, productive, healthier young adults. The content, along with the students' 8 th grade Health class experience is centered around the 7 aspects of Health (The Whole person). | | |
| Content: | A review of the 8 th grade experience and additional topics: <ul style="list-style-type: none">- Decision Making- CPR – Students will become CPR certified- Dangers of Tobacco, Alcohol, Drugs, and Vaping- Relationships and Human Sexuality- Introduction and information covering the 12 Systems of the body- Teen Driving and Distracted Driving- Nutrition- Red Flags (depression)- Empathy | | |
| Special note: | Health Education at the high school level is a requirement for graduation. One semester is required and is usually taken at the freshman level, but can be taken at any year in high school. | | |

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| FITNESS AND WELLNESS FOR LIFE | 1315 | 1 semester | ¼ credit |
| Purpose: | Students will understand the components of total health fitness and the relationship between physical activity and lifelong wellness. | | |
| Content: | Students will assess their beginning fitness level; identify strengths and areas for improvement. Using SMART goal setting and the self-assessment, students create, implement, and track exercise plans. Focus will be investigating the many lifetime activities and non-traditional activities as well as current fitness trends. | | |

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|--|---|------------|----------|
| STRENGTH AND ENDURANCE TRAINING FOR LIFE | 1316 | 1 semester | ¼ credit |
| Purpose: | Students will understand the components of total health fitness and the relationship between physical activity and lifelong wellness. | | |
| Content: | Students will assess their beginning fitness level; identify strengths and areas for improvement. Using SMART goal setting and the self-assessment, students create, implement, and track exercise plans. Focus will be investigating various equipment, programs, trends, and applications of strength training as well as Skill Related Fitness with safe and best practices. | | |

INDUSTRIAL TECHNOLOGY

INTRO TO INDUSTRIAL TECH 1452 1 year 1 credit

Purpose: The purpose of this course is to assist the student in developing the ability to design and read drawings as well as have the hands-on skills to be able to understand, interpret and make detailed engineered designs work. This will be accomplished through project design and construction.

Students will design wood projects through the use of computer software and construction of projects will take place in the shop. Students will also design and draw a house and build a scale model house.

Content: During the first semester, we will study Architecture Design. Obtaining the basic information necessary for planning various types of homes. Presenting basic instruction in preparing architectural drawings using traditional and computer-based methods. Covering all phases of house design, architectural styles, room planning, materials, and construction methods, building systems, green building technology, and career opportunities. This course fits into career pathways for Architecture and Construction including interior design and construction related fields.

During the second semester, we will study the Engineering Design Process. The engineering content will focus on general design principles and analysis tools applicable to a wide variety of emerging and breakthrough solutions. The program will work through hands-on design experiences using real world problems and student design competitions in the form of independent student-centered studies, 3D print designs and/or culminating wood project design. This course fits into the career pathways for engineering and technology.

Special note: **Class fee estimate \$47.00. Should a student's wood project exceed the estimate the student will be allowed to purchase more material to complete desired project upon parent and teacher approval.**

HOME MAINTENANCE–For the Female Student 1485 1 semester ½ credit

Purpose: The purpose of this course is to enlighten and prepare the female student to handle general maintenance jobs found in and around the home.

Content: This course is designed to provide the basis for an exciting career path. Through study and mastery of skills related to the technology of keeping an efficient home, we will discuss and learn about a sufficient number of trades and professions. Home Maintenance will provide opportunities to learn about skills and techniques used in carpentry, masonry, plumbing, electricity, and other building trades. Providing in-depth coverage of topics such as repair of roofs, gutters, walls, floors, concrete, furniture, water, and waste systems, electrical wiring systems, heating and cooling systems, and insulation. Proper maintenance of all housing systems is stressed to prevent costly repairs in the future.

Special note: **Class fee estimate \$30.00**

HOME WIRING 1475 1 semester ½ credit

Purpose: Home Wiring will provide a solid background of electrical principles and practices, as well as a thorough understanding of National Electrical Code requirements. Once having mastered the information, the student will be well equipped to design and install modern and safe residential wiring systems that meet the electrical power demand of the new millennium.

This course feeds into the career pathways for construction design, pre-construction, maintenance/operations.

Content: 1. Electrical terms 7. Electrician's tools & equipment
2. Conductors 8. Working Safely
3. Conduits, Raceways 9. Service requirements
4. Boxes, Covers 10. Basic wiring systems
5. Switches 11. House wiring circuits
6. Outlet Receptacles 12. Modernizing systems

Special note: **Class fee estimate \$20.00**

ENGINEERING 1 1450 1 semester ½ credit

Purpose: This course introduces the fundamentals of technical blueprint reading, technical sketching, mechanical drawing, computer-aided design (CAD) of parts, assemblies, and engineering drawings, modeling and prototyping, and computer-assisted analysis. Students will perform reverse engineering of a multi-part machine for the course project. Students will perform conceptual design of selected real-world challenges. The course culminates in the design and rapid fabrication of a prototype part. This course fits into the career pathways for Science, Technology, Engineering and Mathematics.

Content: 1. Technical blueprint reading 7. Mating features & special problems in assemblies
2. Technical sketching method & extensive practical applications 8. Construct exploded view animations of completed assemblies
3. Gain an understanding of modern 2-dimensional and 3-dimensional CAD programs 9. Perform data exchange between different CAD programs
4. Part file, assembly file, and engineering drawing creation 10. Understand tolerances in modern design
5. Creating multiple views from solid models 11. Output of 2-dimensional and 3-dimensional data
6. Building assemblies of multiple part files 12. Fabrication of a real world prototype.

Prerequisite: Introduction to Industrial Tech B+ or better and/or teacher approval.

Special note: **Class fee estimate \$30.00**

ENGINEERING 2

1456

1 semester

½ credit

Purpose: This course builds upon the fundamentals of technical blueprint reading, technical sketching, mechanical drawing, computer-aided design (CAD) of parts, assemblies, and engineering drawings, modeling and prototyping, and computer-assisted analysis. Students will perform reverse engineering of a multi-part machine for the course project. Students will perform conceptual design of selected real-world challenges. The course culminates in the design and rapid fabrication of a prototype part.

Students will be involved in an engineering design competition with Wright State University. This course fits into the career pathways for Science, Technology, Engineering and Mathematics.

Content:

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| 1. 3-Dimensional puzzle cubes | 5. Trebuchet design and construction |
| 2. Reverse engineered bike | |
| 3. Reverse engineered collapsible boat | 6. Marble Automata design and construction |
| 4. Plastic bottle and injection molds | |

Prerequisite: Engineering 1

Special note: Offered every other year.

Class fee estimate \$30.00

SMALL ENGINES 1465

1 semester

½ credit

Purpose: This course covers all areas of engine theory and service. The extensive information includes L-head, overhead valve, and overhead cam designs. The course begins with shop safety and the foundation of basic engine theory. Later chapters detail the various systems required to make an engine function: the mechanical, ignition, fuel and air induction, lubrication, and cooling systems. Finally, students learn how to apply that knowledge in the maintenance, diagnosis, repair, and rebuilding of engines. This course fits into career pathways for power and mechanical systems.

Content:

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|-----------------------------------|-------------------------------|
| 1. Principles of engine operation | 6. Engine lubrication |
| 2. Two and four cycle engines | 7. Engine cooling |
| 3. Fuel systems | 8. Troubleshooting |
| 4. Carburetion | 9. Engine tune-up |
| 5. Ignition systems | 10. Pistons and piston rings |
| | 11. Rods, bearings and valves |

Special note: **Class fee estimate \$20.00**

INDUSTRIAL TECH 2 1453

1 year

1 credit

Purpose: The purpose of this course is to build on the information learned, and allow the student to take a more “hands on” or student-centered approach to their learning. This class will combine advanced engineering and assembly, as well as advanced product design and construction. The students will be expected to design and build their own project. Students will also enhance architecture skills by producing a scale model house and/or additions/renovations to previous model. This course is designed to fit into the career pathways of Architecture and Construction, Manufacturing and Science, Technology, Engineering and Mathematics.

Content: 1. Solidworks 3D modeling and assembly
2. Engineered design and construction
3. Architectural design and modeling
4. Manufacturing processes

Prerequisite: Intro to Industrial Tech B+ or better

Special note: **Class fee estimate is \$52.00. Should a student’s wood project exceed the estimate, the student will be allowed to purchase more material to complete desired project upon parent approval.**

MATERIAL PROCESSING/WOODWORKING 2.0 1457 1 semester ½ credit

Purpose: The purpose of this class is to investigate advanced woodworking applications and proto-typing. As students have learned early in the previous course, engineers have the potential to design wonderful, innovative products that meet all of the needs of the users and do no harm to the larger community of life, both now and in the future. In fact, we are able to envision ways of providing for the needs of present generations while improving the state of the world. The skills you will develop during this course will help you learn to begin with your own ideas and develop these ideas into a “real product”.

Content: An advanced course in which students further develop the refined skills of building functional projects that are not limited to cabinets and fine furniture. Design and function are at the heart of this class. Projects are completed from a personally designed blueprint or the reverse engineering of current manufactured ideas. Students will have the opportunity to brainstorm new ideas and the challenge of solving problems through effective planning and design.

Prerequisite: Introduction to Industrial Tech or Instructor Permission

Special Note: **Class fee estimate \$45.00**

MATERIALS PROCESSING/WOODWORKING 3.0 1458 1 semester ½ credit

Purpose: The purpose of this class is to build on the previous advanced woodworking applications and proto-typing and plug-in lean manufacturing principles. This course will provide the tools and processes for the students to eliminate waste from the manufacturing of their prototype project, which will result in improved efficiency, effectiveness and profitability.

Content: This course puts an even greater emphasis on the use of jigs and fixtures throughout the manufacturing process. Furthermore, flow process documentation will be detailed in order to develop an analytical approach to eliminating waste and circumstantially improving product efficiency. Students will still have the opportunity to brainstorm new ideas and the challenge of solving problems through effective planning and design.

Prerequisite: Material-Processing 2.0

Special note: **Class fee estimate \$45.00**

LANGUAGE ARTS

ENGLISH 9 1501

1 year 1 credit

Purpose: The purpose of this class is to set a strong foundation for the basics of close reading, writing, and research. In addition to setting a solid foundation in skills, laying groundwork for success on the sophomore End of Course ELA II Test and junior ACT test is another goal.

Content: In this foundational reading and writing-intensive class, students will actively read informational, argumentative, and literary texts ranging from small-scale works to class novels. After reading the texts, students will be expected to write, think, and communicate critically about what they have read. Drawing from and analyzing outside sources while learning the basics of research will complement various papers we write as well as the works we read. Lastly, developing a strong vocabulary, integrating writing techniques, and mastering how to build paragraphs, which solidify or refute a claim, will provide a common thread to bolster our writing and discussions.

Special note: Class fee estimate TBD

ENGLISH 10 1502

1 year 1 credit

Purpose: To build upon the knowledge and skills developed in English 9.

Content: This required course continues the focus on comprehension of literature while extending writing skills. Grammar, usage and mechanics review, presentation skills, and vocabulary are also stressed. Preparation for the Grade 10 Ohio End-of-Course exams will be emphasized. Students will be required to read and respond to several major works. The goal is to produce various pieces of academic writing that show progress toward cohesive, well-developed essays.

Prerequisite: English 9

Special note: Class fee estimate TBD

ENGLISH 11 - JUNIOR LANGUAGE ARTS 1503 1 year 1 credit

Content: This class has a twofold focus: First, preparing for and mastering the English, Reading and Writing portion of the ACT; second, extending the learning from Grades 9 and 10 by focusing on the classics of World Literature in preparation for college. This includes reading, analyzing and writing about short stories, novels, and plays, and the continuation of vocabulary acquisition, grammar, and literary terminology.

Prerequisite: English 9 and 10 credit.

Special note: Class fee estimate TBD

BROADCAST JOURNALISM - Continued

Content: responsibilities associated with the production of a broadcast—including editing, reporting, working behind the camera, delivery, and brainstorming ideas. Evaluation will be based on oral and written assignments.

Special note: Class size will be very limited. Open to grades 11, 12 with priority on driven upperclassmen who have Cavalier pride and a willingness to deliver content under a strict deadline. Students interested in this class may have to interview with the teacher. Grade point average and/or teacher recommendation will help determine enrollment if needed. Students may repeat this course by contracting with the teacher for additional leadership responsibilities the second time.

NEW BROADCAST JOURNALISM II 1 semester ½ credit

Purpose: To provide an opportunity for driven, motivated leaders to inform and engage high school students and staff while showcasing all that CHS offers.

Content: Emphasis is placed on participation, use of class time, attitude, and progress as daily broadcasts are created. Students in this class will lead and delegate and help train peers on Google Slides presentations, interviewing, iMovie, content creation and curation, and speaking. Daily announcements, consistent interviews, and ongoing special projects make up the content of the class.

Special note: This class is reserved for a few very motivated senior leaders who interview for this next level of Broadcast Journalism. Broadcast Journalism teacher recommendation needed.

Prerequisite: Broadcast Journalism

YEARBOOK 1513 1 year 1 credit

Purpose: This course teaches students to use the design, business, photographic and writing skills to produce a yearbook.

Content: Students will participate in all aspects of yearbook production including photographing school events, designing layouts, conducting interviews, writing articles, and selling ads and books.

Prerequisite: None. Photography, newspaper, art, and typing skills are helpful.

Special note: **Students interested in taking this course must interview with the Yearbook advisor.** Factors for admittance to the course will be the student's writing ability, experience in working with computers, understanding of good design, photography skills, leadership, and their commitment to the production of a quality product. A student may take yearbook a second year for credit by contracting for additional responsibilities and/or editorial positions. 20-student capacity.

COMMUNICATIONS/SOCIAL SKILLS 1549 1 semester ½ credit

Purpose: To prepare students for public speaking as well as enhance every day communication and social skills.

Content: This class will push students to use their public speaking and social skills and also prepare them for the following situations: the preparation for business and career speaking, special occasion speaking, contest speaking, speaking for mass media, motivational, persuasive, and informational communications.

Prerequisite: English 9, 10, and 11. Seniors will have first option to take the class. If there are spaces available, then the class will be open to juniors who have two English credits.

Special note: There are only 15 seats open.

****PLEASE NOTE: POTENTIAL COLLEGE CREDIT PLUS ENGLISH COURSE TO BE OFFERED PENDING STAFF CREDENTIALING.**

GEOMETRY 1575 1 year 1 credit

Purpose: Geometry is useful, challenging, and logical. It gives visual meaning to arithmetic and algebra.

Content: As we become educated, we learn to rely more on reason and proof and less on assumptions and guesswork. One of the main purposes of this class is to help appreciate the power of logic as a tool for understanding the world around you. During this course, you will use deductive reasoning to solve problems. Some of the topics include congruent triangles, parallel lines, quadrilaterals, polygons, circles, Pythagorean Theorem, area, surface area and volume.

Prerequisite: Algebra 1 or equivalent.

Special note: Students that plan to take Algebra 2 and Geometry during the same school year must have math department approval.

ALGEBRA 2 1571 1 year 1 credit

Purpose: Algebra 2 is designed to review and strengthen algebra skills with an emphasis on functional notation, graphing and applications. This course will prepare students for higher level HS math classes and college studies.

Content: The study of various function families: linear, quadratic, polynomials, exponentials, rational, logarithmic, trigonometric, etc. Also, complex numbers, analytic geometry and problem solving.

Prerequisite: Algebra 1. Those who plan to take Algebra 2 and Geometry during the same school year must have math department approval first.

Special note: A TI-83/84 model graphing calculator is required.

NEW **PRACTICAL ALGEBRA 2** 1 year 1 credit

Purpose: This course is designed to review and strengthen algebra skills through a variety of methods. This course is intended for students who are entering the workforce or college bound students who will not have much of a math need in their majors.

Content: The study of various function families will be done throughout the year using a variety of methods and real-life applications. The ideas of statistics, financial concepts, mathematical modeling and problem solving will be integrated into this course.

Prerequisite: Algebra 1.

Special note: This course is intended for juniors and possibly seniors. Students may take Senior Math or Statistics after this course. A TI-83/84 model graphing calculator will be needed.

SENIOR MATH 1579 1 year 1 credit
 Purpose: A course for seniors to review and strengthen algebra skills and general math topics. There will also be an emphasis on various financial concepts.
 Content: This course will cover several real-world topics, as well as, provide enough algebra to meet the State Algebra 2 equivalency requirement. This course will also be supplemented with a variety of real-world projects and related activities.
 Special note: **Seniors only**

STATISTICS 1567 or 1568 ½ or 1 year ½ or 1 credit
 Purpose: Statistics is a field that interacts with and is integrated into many other fields. This course will introduce the ideas of the data analysis process, sampling and experimentation. Statistics is a requirement for many college majors.
 Content: Sampling techniques, bias types, and experiment terminology will be introduced. A variety of descriptive statistics (graphical, numerical, etc.) will be studied. Probability will be covered to make connections between descriptive and inferential statistics. Probability distributions (normal, binomial, etc.) and a variety of statistical tests will be explored.
 Prerequisite: Algebra 2 or Practical Algebra 2
 Special note: Seniors only. If taking the half-year course- this must be taken the first semester. This course can be taken simultaneously with any upper level math course.

ADVANCED MATH 1580 1 year 1 credit
 Purpose: The purpose of this course is to prepare students for Calculus or higher-level college mathematics or science courses.
 Content: The course will cover trigonometry, pre-calculus, and analytical geometry with an emphasis on the many kinds of functions.
 Prerequisite: Algebra 2

*AP CALCULUS 1585 1 year 1 credit
 Purpose: To provide a solid introduction to the calculus for college-bound students.
 Content: Differential and integral calculus, with a solid basis on analytic geometry.
 Prerequisite: Advanced Math
 Special note: This course is designed for seniors who will probably be taking more courses in mathematics in college. It may be possible to receive college credit by passing an Advanced Placement test. The Advanced Placement test requires a fee. It is not a requirement for the course to take the Advanced Placement test, but strongly encouraged.

***AP STATISTICS 1572**

1 year

1 credit

Purpose: To provide a solid introduction to Applied Statistics for college-bound students.

Content: 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, and conclusions.

Prerequisite: Algebra 2

Special note: This course is designed for seniors and juniors who will probably be taking more courses in mathematics in college. It may be possible to receive college credit by passing an Advanced Placement test. The Advanced Placement test requires a fee. It is not a requirement for the course to take the Advanced Placement test, but strongly encouraged.

NEW

***AP PRE-CALCULUS**

1 year

1 credit

Purpose: To prepare students to take the college math and science courses required for most majors before they graduate from high school, including Calculus.

Content: Polynomial & rational functions, exponential & logarithmic functions, trigonometric & polar functions, functions involving parameters, vectors, & matrices.

Prerequisite: Algebra 2

Special note: This course is designed for juniors and seniors who will take calculus or students who wish to pursue both STEM and non-STEM majors. It may be possible to receive college credit by passing an Advanced Placement test. The Advanced Placement test requires a fee. It is not a requirement for the course to take the Advanced Placement test, but strongly encouraged.

MUSIC

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| BAND | 1600 | 1 year | 1 credit |
| Purpose: | The band program will provide students the opportunity to develop critical thinking skills, aesthetic expression, and goal setting in individual, small group, and large group musical settings. Students are involved with the highest possible level of musical performance, training and appreciation through a repertoire of widely varied musical styles. | | |
| Content: | All band students must participate in Marching Band as well as Symphonic Band (or Concert Band if both are offered). Students will have the option of participating in Pep Band, Honor Bands, and Solo and Ensemble. | | |
| Prerequisite: | Successful completion of the 8th grade band OR approval of the instructor. | | |
| Special note: | Due to the group nature of band, all students are required to attend every rehearsal, practice, and performance. Failure to attend any activity will have an effect on the student's grade (see grading contract found in the Band Handbook). Students are financially liable for any instrument, equipment, uniform, or music, which are lost or damaged. Students and parents are required to sign an acknowledgement form in the Band Handbook (available on the school website) demonstrating an understanding of the class expectations. A class fee is required to assist in the cost of uniform maintenance, band camp, and guest clinicians. This will be handed out in May and due prior to the first summer rehearsal. This fee will be paid to the Coldwater Band Boosters. | | |

Any student playing a school-owned instrument will need to sign an instrument rental agreement and pay a \$25 yearly fee paid to Coldwater Schools.

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| SYMPHONIC CHOIR | 1605 | 1 year | 1 credit |
| Purpose: | To establish a choir that will gain advanced competency in performing four-part choral music while learning how to communicate, cooperate, and demonstrate self-discipline in a group setting. This choir will be comprised of students in grades 9-12 who possess above average vocal music ability and average or above sight-reading skills. Individual, small group and large ensemble performance is expected. | | |
| Content: | Students will participate in solo and ensemble singing; all styles of music ranging from Classical to Contemporary; adjudicated events; concerts; a study of vocal music techniques and overall musicianship. Students will have opportunities to participate in District and State level events. | | |

SCIENCE

PHYSICAL SCIENCE 1713 1 year 1 credit

Purpose: To give the student an introduction to the fields of Chemistry and Physics; to introduce students to lab procedures and data collection; to develop mathematical problem-solving skills in a science situation; to introduce students to the classification of matter.

Content: Text; lab experimentation in the areas of forces, chemical reactions, energy, motion, electricity, waves, and heat.

Special note: It is recommended that students have a "C" average or better in 8th grade science.

Class fee estimate \$10.00

INTRO TO PHYSICS 1705 1 semester ½ credit

Purpose: Introduce students to the science that deals with matter and energy and their interactions in the fields of mechanics, optics, heat, electricity, magnetism, radiation, atomic structure and nuclear phenomena.

Content: Students will engage in hands-on science through laboratory investigations. Students have opportunities to gain knowledge and understanding of various physics topics including motion, acceleration, forces, laws of motion, energy, heat and state of matter, waves, electricity, and electromagnetic radiation.

Special note: **Class fee to be determined**

INTRO TO CHEMISTRY 1706 1 semester ½ credit

Purpose: To introduce students to the science that deals with the composition, structure, and properties of substances and of the transformations that they undergo.

Content: Students will engage in hands-on science through laboratory investigations. Students have opportunities to gain knowledge and understanding of various chemistry topics including the classification of matter, properties of atoms and the periodic table, chemical bonds, chemical reactions, solutions, acids and bases, and nuclear change.

Special note: **Class fee to be determined**

PRACTICAL BIOLOGY A 1709 1 semester ½ credit

Purpose: To develop knowledge and understanding of basic principles of Biology. The students will learn fundamental lab techniques as well as proper use of lab equipment.

Content: Students will learn how biology is the study of life, cellular structure and function, cellular reproduction, basic genetics and inheritance patterns, and cellular energy.

Prerequisite: Completion of physical science or introduction to chemistry and physics and permission of previous science instructor.

Special note: **Class fee estimate \$10.00**

BIOLOGY 1710 1 year 1 credit
Purpose: To give the college bound students an overall view of all life forms; to develop abilities in dissections, use of microscopes, and other research equipment.
Content: The biochemistry, genetics, and physiology that make all life similar, from bacteria to man. A survey of the five major kingdoms of living things concluding with an anatomical study of major phyla of animal life climaxing with the human being.
Prerequisite: Open to all sophomores, juniors, and seniors.
Special note: Students should have average or better reading comprehension.
Class fee estimate \$10.00

PRACTICAL BIOLOGY B 1711 1 semester ½ credit
Purpose: To develop knowledge and understanding of basic principles of Biology. The students will learn fundamental lab techniques as well as proper use of lab equipment.
Content: Students will learn about basic molecular genetics, history of life, evolution, diversity of life, and basic ecology.
Prerequisite: Completion of physical science or introduction to chemistry and physics and permission of previous science instructor.
Special note: **Class fee estimate \$10.00**

INTRO TO ECOLOGY 1712 1 semester ½ credit
Purpose: To give students an in-depth survey of Ecology, how animals interact with their environment, and environmental sciences.
Content: A general introduction to basic Ecology and Environmental Science issues, current science issues, and everyday application of the information
Prerequisite: Completion of either Biology or Practical Biology and permission of previous science instructor.
Special note: **Class fee estimate \$5.00**

INTRO TO ZOOLOGY 1714 1 semester ½ credit
Purpose: To give students an in-depth survey of the biological kingdoms.
Content: A general introduction to the biological kingdoms of organisms with a focus on the plant and animal kingdom, as well as marine biology. Current science issues and everyday application of the information will be stressed.
Prerequisite: Completion of Biology or Practical Biology and permission of previous science instructor.
Special note: **Class fee estimate \$25.00**

CHEMISTRY 1715 1 year 1 credit
Purpose: To enable students to develop a better understanding of the properties of matter as a result of the structure of matter. To develop problem solving skills and the ability to predict once one has the concept and facts mastered.
Content: Conceptual and practical chemistry, principles of structure, matter and energy relationships, mole concept of thermodynamics and chemical equilibrium. Practical applications of accurate measurement and proper techniques are stressed in laboratory exercises.
Prerequisite: Algebra 2 and the student must have a "C" average or higher in Biology or Physical Science or permission from the instructor.
Special note: **Class fee estimate \$15.00**

*AP CHEMISTRY 1716AP 1 year 1 credit
Purpose: This course is designed to provide the student with a solid first year college chemistry experience, both conceptually and in the laboratory. It looks at an in-depth study of the structure and properties on matter.
Content: The following topics are taught in this class: Atomic Structure, Equilibrium, Thermochemistry, Kinetics, Gases, Liquids, and Solutions, Oxidation-Reduction Reactions and Electrochemistry.
Prerequisite: Completion of Algebra 2 with a B+ or higher grade and have an understanding of natural logs and completion of Chemistry with a B+ or higher.
Special note: An AP test can be taken at the end of the year for college credit.
Class fee estimate \$30.00

EARTH SCIENCE 1717 1 semester ½ credit
Purpose: To give the student an introduction to the field of earth science; develop abilities to use technology within various branches of Earth Science; formulate cycles that occur between the four major spheres on our planet; and see how the human population plays an influence on the planet.
Content: A general introduction to earth systems, geology, natural phenomena such as earthquakes and volcanoes and the basic principles associated with them.
Prerequisite: Completion of Physical Science or Introduction to Physics and chemistry, and completion of Biology or Practical Biology; permission of previous science instructor. This course is offered as an elective to the other science requirements.
Special note: **Class fee estimate \$5.00**

NEW SPACE SCIENCE 1 semester ½ credit
Purpose: To give the student an introduction to the field of space science, develop an understanding of our solar system, galaxy and universe. Look into human explorations beyond Earth.
Content: A general introduction to the universe including our solar system, galaxies, and human exploration beyond Earth.
Prerequisite: Completion of physical science or introduction to Physics and Chemistry, completion of biology or practical biology; permission of previous science instructor. This course is offered as an elective to the other science requirements.
Special note: Class fee estimate \$5.00

*AP PHYSICS C 1718 1 year 1 credit
Purpose: To study the relationship between matter and energy
Content: Text, lab experimentation in the fields of force and motion. If time permits, electricity may be investigated.
Prerequisite: Calculus must be taken concurrently.
Special note: An AP test can be taken at the end of the year for 1 year of college credit. This is Calculus based physics.
Class fee estimate \$15.00

STEM-INTRO TO ENGINEERING DESIGN 1719 1 year 1 credit
Purpose: To introduce the students to the world of engineering.
Content: Students are introduced to the engineering design process, applying math, science and engineering standards to identify and design solutions to a variety of real problems. They work both individually and in collaborative teams to develop and document design solutions using engineering notebooks and 3D modeling software.
Prerequisite: Students must have completed Algebra 1 with at least a “B” or higher and must also be taking or have taken Geometry.
Special note: **Class fee estimate \$30.00**

PHYSICS 1720 1 year 1 credit
Purpose: To give a general overview of the field of physics; the study of the relationship between matter and energy.
Content: Examines the areas of force and motion, heat energy, waves, transfers of energy, physical optics, and electricity will be completed.
Prerequisite: Trig/Analysis must be taken before or concurrently.
Special note: This course is a required course by engineering schools, some technical colleges and some nursing schools for admission purposes.
Class fee estimate \$15.00

STEM-COMPUTER SCIENCE/ROBOTICS/FTC 1722 1 year 1 credit

Purpose: To introduce students to the worlds of computer science and robotics.

Content: This program is to give students the flexibility to develop skills in the areas of computer programming and robotics. The FTC (First TECH Challenge) will be run through this program. Programming skills will be in the areas of SCRATCH, Python, and possibly JAVA for FTC. Robotics will include designing and programming a robot to perform a specific function.

Special note: You do not have to be a member of FTC to take this class. Likewise, FTC members do not have to take this class. The FTC program, though, will be run through this class. If you are in FTC, there will be at least three competitions that you will have to be available for.

Class fee estimate \$10.00

PHYSIOLOGY AND PRINCIPLES OF BIOMEDICAL SCIENCE 1740

1 year 1 credit

Purpose: An introduction to the structure and function of the human body using traditional instruction and biomedical sciences as a resource for laboratory-based learning. The course will focus on activities and projects in the areas of physiology, anatomy, biology, and scientific research processes. The course will help prepare students for careers in medicine, health care, pharmacy, and veterinary fields.

Content: The course concentrates on the systems of the body and common related medical diseases through lecture, labs, student generated labs, and student problem solving.

Prerequisite: Completion of Physical Science and Advanced Biology with a "B" or better and/or permission of instructor.

Special note: Students should be skilled at dissection, research techniques, use of compound microscopes, and laboratory report procedures before taking this course. Memorization skills are frequently tested.

Class fee estimate \$12.00

SOCIAL STUDIES

WORLD STUDIES (1750 to Present) 1753 1 year 1 credit

Purpose: To continue the chronological study of world history.

Content: Students will study historical eras, and consider the influence of geographic settings, cultural perspectives, economic systems and various forms of government. Students will gain a deeper understanding of the role of citizens and continue to develop their research skills. Specific areas: Population Geography, French Revolution, Industrial Revolution, Latin American Independence, Imperialism, WWI, WWII, Cold War, Contemporary Societal Issues, Age of Reform, and Totalitarianism.

U.S. STUDIES (1877 to Present) 1754 1 year 1 credit

Purpose: To continue the chronological study of the history of the United States with emphasis on domestic affairs.

Content: Students will study historical eras, and consider the geographic, cultural, economic and government changes that have occurred. Students will develop a deeper understanding of their role as citizens and continue to expand their command of social studies skills and methods.

Prerequisite: World Studies 1750 to Present

*AP AMERICAN HISTORY 1762 1 year 1 credit

Purpose: To provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in American History.

Content: Course will cover a complete history of the United States from the discovery and settlement of the New World to the present age. Topics will be based from text material, supplemental readings and other scholarly outside sources. Students will learn to assess historical materials, their relevance to a given interpretive problem, their reliability, and their importance, and to weigh the evidence and interpretations presented in historical scholarship. The course will develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

Prerequisite: Open to sophomores, juniors, and seniors with Teacher Approval (limited availability). Students need to have completed World Studies with a high level of success, while demonstrating high level writing skills.

Special note: Students taking this class should have a great interest in History. Class will be college level material and a strong emphasis will be placed on the AP United States History test.

CIVICS 1780 1 year 1 credit
Purpose: The purpose of Civics is to make the students aware of their roles as citizens, the responsibilities that go along with the rights and privileges of being a citizen. Emphasis on learning the processes of the United States government.
Content: The course focuses on the U. S. Constitution and how it relates to daily lives.
Prerequisite: Seniors only
Special note: Every attempt is made to teach Civics through the events of the present, in most cases right out of the news. Therefore, the class is an attempt to understand the government and American society as it affects them in their everyday lives now and in the future.

***AP UNITED STATES GOVERNMENT and POLITICS**

1781 1 year 1 credit
Purpose: Study the key concepts and institutions of the political system and culture of the United States. You will read, analyze, and discuss the U.S. Constitution and other documents as well as complete a research or applied civics project. Develop a claim or thesis and supporting it in an essay. Explaining the impact and implications of certain U.S. Supreme Court decisions. The purpose of Civics is to make the students aware of their roles as citizens, the responsibilities that go along with the rights and privileges of being a citizen.
Content: The course focuses on the U.S. Constitution, civic duties, and Supreme Court decisions.
Prerequisite: Seniors only.
Special note: Students taking this class should have a great interest in History. Class will be geared toward college level material and a strong emphasis will be placed on the AP United States Government and Politics test. Every attempt is made to teach Civics through the events of the present, in most cases right out of the news. Therefore, the class is an attempt to understand the government and American society as it affects them in their daily lives now and in the future.

ADDITIONAL PROGRAMS

YOUTH ENTERING SOCIETY (Y.E.S.) 1 semester ½ credit
1866, 1867, 1868, 1869

Purpose: To provide the student with the skills and knowledge to work, learn, and serve in the community.

Content: This is an elective course open to juniors or seniors. Students must be registered for a minimum of six (6) credits and complete an application with the principal/counselor. Students will also need to meet academic requirements to participate (if student is not passing all courses, early release may be denied.) Those who fulfill expectations of the application/interview process and demonstrate commitment to education, dependability, responsibility, and the desire to work, learn and serve will be accepted. Students must complete a minimum of 60 hours per semester to receive credit. Documentation of the time completed by the student is to be submitted on a regular basis to the principal/guidance counselor. Students' job performances will be reviewed by the YES Program Advisor on a quarterly basis, and students will be responsible for completing their own work performance reviews, when requested by their advisor.

Prerequisite: Open to juniors and seniors or sophomores with administrative approval.

Special note: The High School Principal maintains the discretion to determine the number of class periods YES program students will be allowed to miss to fulfill their employment. This is a pass/fail class that will affect GPA. If a student has an "F", they may be put on a probationary period and can be removed from the program if grades do not improve.

**Students without a commitment by the first day of school will be placed in classes.

SPECIAL EDUCATION

Students may be referred to this program by classroom teachers. With parental approval, the school psychologist tests the child to determine the type of help the student needs. Individual Education Programs (IEP) is written for each student showing areas of strength and weaknesses and goals to be achieved. The special education teachers work closely with the regular classroom teachers to achieve best results for each student.

NOTES