

READING HIGH SCHOOL 2024-2025 CURRICULUM GUIDE (517) 283-2142

ADMINISTRATION & COUNSELING DEPARTMENT

SUPERINTENDENT PRINCIPAL SCHOOL COUNSELOR

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DISTRICT MISSION STATEMENT

Reading Community Schools will provide educational experiences, based on the uniqueness of each student, that will enhance and prepare each one for a lifetime of high achievement.

HIGH SCHOOL MISSION STATEMENT

Reading High School and community, working cooperatively, are committed to excellence and dedicated to providing an atmosphere conducive to personal and intellectual growth. We will actively seek new ways to prepare our students for lifelong learning, employment and/or education in a technologically based world.

PLANNING YOUR INSTRUCTIONAL PROGRAM

The student and his/her parents, with guidance from the school counselor and faculty, will choose an educational development plan which reflects each student's interests, aptitudes, and future career options.

GRADUATION REQUIREMENTS

In coordination with the Michigan state boards of education, Reading Community Schools has worked to prepare a curriculum that ensures the production of high-achieving adults. A student of Reading High School is required to complete the following coursework before graduating.

Subject	Credit(s)
English	4
Mathematics	4
 Must include .5 of Personal Finance (can earn through Economics) 	
 Must have a Math Experience during Senior year 	
Social Sciences (must include U.S. History & Government)	3
Science	3
Physical Education/Health	1
Visual/Performing/Applied Arts	1
World Language	2
 2nd credit can be earned through a second VPAA course if needed 	

^{*}Each half credit represents one semester of work.

Enrollment in some programs at the Branch Area Careers Center (BACC) and Hillsdale Area Careers Center (HACC) may fulfill some of the graduation requirements in the areas of Mathematics, Science and English due to the applied nature of these subjects. Please refer to the chart in the back of this document as a guideline for possible credit substitutions for BACC and HACC coursework.

DETERMINATION OF GRADE LEVEL

9th Grade	0 to 5.5 credits
10th Grade	6 to 11.5 credits
11th Grade	12 to 17.5 credits
12th Grade	18 and above

ACADEMIC GRADE POINT

A = 4.00	B - = 2.67	D+ = 1.33
A - = 3.67	C+ = 2.33	D = 1.00
B+ = 3.33	C = 2.00	D - = .67
B = 3.00	C - = 1.67	F = .00

TESTING OUT OF HIGH SCHOOL CLASSES

To test out of a high school class the student must exhibit a reasonable level of mastery of the subject matter of the course by attaining a grade of not less than C+ in a final exam in the course. If there is not a final exam in the course, a student must exhibit mastery through a practical assessment used in the course that may consist of a portfolio, performance, paper, project, or presentation.

Credit earned under this section shall be counted toward graduation as determined by the board of education via the Reading High School Student Handbook. The board's determination shall apply equally to all such credit for all pupils. Credit earned under this section shall be counted toward fulfillment of a requirement as to course sequence. Once credit is earned under this section, a pupil may not receive credit thereafter for a course lower in sequence in the same subject area.

^{*}Request forms to test out are available in the counseling office.

MINIMUM CLASS LOAD

The State of Michigan School Code requires students to be enrolled in school for 1098 hours of classroom instruction.

COLLEGE PREPARATION

College admission requirements vary a great deal from institution to institution. Specific requirements of each college can be researched by reading college catalogs, participating in College/Career Night in October, going to college open houses/campus visits and conferring with the counselor. The following are strongly recommended by the state universities of Michigan:

- 2 years of creative/applied/performing arts
- 3 years of social sciences, including world history, U.S. History, government, economics
- 4 years of mathematics, including algebra, geometry, algebra II, trigonometry, statistics, pre-calculus
- 3 years of science, including biology and chemistry
- 4 years of English

EDGENUITY (CREDIT RECOVERY)

Reading High School offers courses through Edgenuity. These courses are designed to help students in grades 9-12 meet the rigor of Common Core and state standards, graduation requirements, and credit recovery. Classes will take place on appropriate technology. All costs are covered by Reading Community Schools. Courses selected are approved by the Counseling Office. If you need more information please contact Mrs. Elder.

READING HIGH SCHOOL COURSE OFFERINGS

9th Grade	10th Grade	11th Grade	12th Grade
Academic Success Algebra I Art I Biology Choir English 9 Geometry Industrial Arts I Physical Education I/Health Senior High Band Spanish 1 US History	Academic Success Algebra II Art I Art 2D/Art 3D Biology II/Anatomy Choir Cultural Studies English 10 Geometry Physical Education I/Health Industrial Arts I/II Instructional Technology Senior High Band Spanish II World History Yearbook	Academic Success Algebra II Algebra II/Applied Art I Art 2D/Art 3D Business Management Chemistry Choir Communications Cultural Studies English 11 Government/Economics Industrial Arts I/II/III Instructional Technology Peer-to-Peer Physical Education II Psychology Ranger Strength & Pride Repair Senior High Band Spanish II/III Sports Officiating Trigonometry Yearbook	Academic Success Algebra II Algebra II/Applied Art I Art 2D/Art 3D Business Management Calculus Chemistry Choir Communications Cultural Studies English 12 Government/Economics History Through Movies Industrial Arts I/II/II/IV Instructional Technology Peer-to-Peer Personal Finance Physical Education II Physics Psychology Ranger Strength & Pride Repair Senior High Band Spanish II/III/IV Sports Officiating Trigonometry Yearbook

^{*}Course offerings could be deleted because of enrollment numbers.

COURSE OFFERING DESCRIPTIONS

LANGUAGE ARTS

ENGLISH 9 (Grade 9, 1 credit)

Students will learn through the writing process, basic sentence and paragraph structure as well as the basic types of writing; expository, narrative, descriptive, and persuasive. Since good grammar is essential for good writing, this course will teach parts of speech, parts of a sentence, usage, agreement, capitalization, and punctuation. Students will also read a novel and literary selections from Literature books to help hone reading comprehension skills.

ENGLISH 10 (Grade 10, 1 credit)

This class explores thematic and chronological American literature ideas. An emphasis on the "American dream" and the individual theme will be studied. Students will work on developing expository writing skills and will also learn the writing process, as well as introduce the elements of a research paper.

ENGLISH 11 (Grade 11, 1 credit)

Students will read and analyze various genres of classic and contemporary narrative and informational text focusing on British and World Literature and ACT success. Students will build a solid foundation of knowledge, skills, and strategies that will be refined, applied and extended as they engage in more complex ideas, texts, and tasks. They will learn to use forward thinking to help make better decisions, to generate new ideas for solving problems, and to find wisdom.

ENGLISH 12 (Grade 12, 1 credit)

Students will develop a world perspective by analyzing classic and contemporary texts in a variety of genres. Students will synthesize information, ideas, and themes to understand the past, the present, and think innovatively about the future. They will identify and apply their own leadership skills and prepare for responsible action as American citizens.

MATHEMATICS

ALGEBRA I (Grades 8-9, 1 credit)

Algebra I is an introduction to Algebra. Some of the topics covered are operations using positive and negative integers, solving inequalities, factoring polynomials, working with algebraic fractions and graphing equations.

GEOMETRY (Grades 9 -10, 1 credit)

The purpose of this course is development of critical thinking and deductive reasoning. The means for reaching this purpose is the study of polygons; types, construction, congruence, similarity and areas. In addition, set up, development of and theory of proofs are emphasized. Prerequisite: Successful completion of Algebra I.

ALGEBRA II (Grades 10 -12, 1 credit)

Algebra II is a continuation of Algebra I. It is strongly recommended that college-bound students take this course. All topics covered in Algebra I are reviewed in greater detail and using more advanced problems. Additional topics covered include analytic geometry, functions, conic sections, systems of equations, regressions, series and logarithms. Prerequisite: Successful completion of Geometry.

ALGEBRA II APPLIED MATH (Grades 11 – 12, 1 credit)

Algebra II Applied Math is a continuation of Algebra I. All topics covered in Algebra I are reviewed in greater detail and using more advanced problems. Additional topics covered include analytic geometry, functions, conic sections, systems of equations, regressions, series and logarithms. Emphasis will be placed on the more practical applications of Algebra II.

TRIGONOMETRY (Grades 11 - 12, 1 credit)

Trigonometry contains an introduction to statistics including quartiles, percentiles, box plots and standard deviations. Also included is the study of properties, theorems and graphs of many basic functions: quadratic, cubic, trigonometric, etc. Prerequisite: Successful completion of Algebra II

CALCULUS (Grade 12, 1 credit, weighted)

Calculus opens with an introduction to logic that is applied to the study of functions, polynomials and trigonometry. Also included is an introduction to many Calculus concepts: conic sections, polar coordinates, and complex numbers. Calculator application is expected in all areas. Prerequisite: Successful completion of Functions, Statistics, Trigonometry.

PERSONAL FINANCE (Grade 12, 1 credit)

This course is a study of essential personal finance principles, such as how to budget, save, avoid debt, invest, be a wise consumer, college and career readiness, insurance, real estate, banking and many more. Course work will include videos, group discussions, individual assignments, and assessments. In addition, completion of weekly shifts in the class business will also be required.

BUSINESS MANAGEMENT (Grades 11-12, 1 credit)

The curriculum covers essential business topics such as Entrepreneurship, Economics and Finances, Marketing, and Business Management, and allows students the opportunity to develop a business idea through project-based learning over the course of the curriculum. In addition, necessary career readiness skills such as typing, Google Apps, and Microsoft Office will be practiced and opportunities for certification will be made available.

SCIENCE

BIOLOGY (Grade 9, 1 credit)

This course includes a study of living organisms with a focus on their structure and functions of processes vital to maintaining life. The major themes covered will be ecology, biochemistry, genetics, cellular processes, and evolution. It will align with the Michigan k-12 science standards.

BIOLOGY II/ANATOMY (Grade 10, 1 credit)

This course will take a systemic approach to human anatomy. It is a course that will give students the opportunity to develop an understanding of the relationships between the structures in their bodies and the functions they perform to help each system maintain life. The systems we will cover will be: integumentary, skeletal, muscular, nervous, digestive, respiratory, cardiovascular, immune, endocrine, lymphatic, and reproductive.

CHEMISTRY (Grade 11, 1 credit)

Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gasses; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied

PHYSICS (Grade 12, 1 credit, weighted)

Physics is a mathematical approach to many general science theories. Students solve problems concerning motion, work, power, heat, waves, mirrors, lens and electric currents. Some experiments are done concerning heat gained or lost, waves, and mirrors or lenses. Prerequisite: 'C' or better in Algebra II.

SOCIAL STUDIES

U. S. HISTORY (Grade 9, 1 credit)

First section covered will be a survey of the growth of our nation from the Civil War to World War I. The 2nd section will be a survey of the time period beginning in the roaring 20's through the Persian Gulf War.

WORLD HISTORY (Grade 10, 1 credit)

This will be a survey of ancient eastern and western civilizations, including discussions on ancient Mesopotamia, Egypt, India, China, Greece, and Rome. Each region will be introduced through a survey of its physical geography and progress into discussion relating to major historical events and their impact and influence on the modern world. Next will be a survey of eastern and western Europe during medieval times through the Industrial Revolution. Areas of discussion will include the Reformation, the rise of Absolutism, the Enlightenment, and the age of Revolution.

AMERICAN GOVERNMENT (Grades 11 - 12, 1/2 credit)

Studies in the content of American Government will allow students to become familiar with the foundations of the American system of government, analyzing its origins and development, the fundamental principles upon which it is laid, and the structure of the American federal system. The course will focus on the functions of the legislative, executive, and judicial branches of the national government, as well as cover the concepts of American citizenship, civil rights, and the role of political parties and elections.

ECONOMICS (Grades 11 - 12, ½ credit)

In Economics students will explore the decisions that citizens and the U.S. Government make that affect the U.S. economy and personal finances. Topics explored will include: individual and household choices regarding the purchase, use and disposal of goods; business choices such as organizing production (division of labor), utilization of natural resources, and supplying consumers; the role of government in taxation, spending, and regulation of the U.S. economy; the study of different countries economic systems including currencies, exchanges, and government control; how and why the U.S. trades with other nations and the benefits and possible pitfalls that arise as a result of a global economy.

HISTORY THROUGH MOVIES (Grades 11 - 12, 1 credit)

History through Movies will allow students the opportunity to explore particular topics/events/times in American history through the viewing of movies and research. This course will examine the history of the United States from the Civil War or Reconstruction era through the present time. Curriculum choices will include a historical review of political, military, scientific and social developments.

CULTURAL STUDIES (Grades 10-12, 1 credit)

Cultural studies is an immersive class into the cultures around the world. Students will be able to experience the world around them in this hands-on class. Students will understand the significance of cultural competency from a historical and modern perspective. Language, dress, food, art, music, location, and many other geographical topics will be explored!

FOREIGN LANGUAGE

SPANISH I (Grade 9-12, 1 credit)

Designed to introduce students to Spanish language and culture, Spanish I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people.

SPANISH II (Grade 10-12, 1 credit)

Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules or grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).

SPANISH III/IV (Grade 11-12, 1 credit)

Spanish III courses build upon skills developed in Spanish II, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules or grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).

PHYSICAL EDUCATION

PHYSICAL EDUCATION I / HEALTH (Grades 9-10, 1 credit)

The emphasis of this class is to help develop the three components of physical fitness: cardiovascular, flexibility, strength, and endurance. Students will be active in fitness activities, recreational and team sports. The Health unit will cover eight content areas: nutrition and physical activity; alcohol, tobacco and other drugs; safety; social and emotional health; personal health and wellness; HIV prevention; and sexuality education. This class is intended to promote a healthy lifestyle socially, mentally and physically.

PHYSICAL EDUCATION II (Grades 11-12, .5 credit, can be repeated for credit)

The emphasis of this class is to help develop the three components of physical fitness: cardiovascular, flexibility, strength, and endurance. Students will be active in fitness activities, recreational and team sports.

RANGER STRENGTH & PRIDE (Grades 11 - 12, 1 credit, can be repeated for credit)

This course will include an intense application of weight training, plyometrics, cybernetics, isometrics, and nutrition. Students will be taught fitness skills that will enhance their lives for years to come. Students will show an increase in strength and general fitness.

SPORTS OFFICIATING (Grades 11-12, .5 credit, can be repeated for credit)

The MHSAA has partnered with RefReps to help provide a

curriculum to member schools in teaching sports officiating. This course teaches

the rules of sports and eventually certifies students to become sports officials. This course is semester based. Within one semester, students have the

opportunity to become certified to officiate in three different sports. Guest speakers will be incorporated that are current or retired sports officials.

ART

ART I (Grades 9 - 12, 1 credit)

The purpose of Art I is to provide students with a foundation in the elements of art and the principles of design, giving them the means of personal expression, an appreciation of our artistic heritage and a visual literacy. Art history will be taught through lectures and projects that will require students to emulate different artistic styles. Students will explore multiple artistic mediums on a general/introductory level.

ART 2D (Grades 10-12, .5 credit)

A continuation of the use of basic information to successfully complete more complex projects based on previously learned elements and principles of design. Block printing and/or other printmaking techniques will be taught, as well as American architecture and human anatomy. Students will research the information they need, do the assigned project(s) and write responses/critiques on the finished creations. Prerequisite: Art I

ART 3D (Grades 10-12, .5 credit)

This is an entry level 3-dimensional class in which students learn the use and handling of various materials and tools to create interesting works of art that are viewed from all sides – they have height, width, and depth. They will also learn the elements and principles of design as they apply to 3-dimensional creations. Students may learn the mediums of clay, handmade paper/books, mat board, plaster, and wood, based on historical and current information, as well as the use of various hand and power tools

MUSIC

SENIOR HIGH BAND (Grades 9 - 12, 1 credit, can be repeated for credit)

Musical maturity is the goal of the high school band with an attempt to play with the finest tone, correct intonation with proper instrument adjustment and technique, rhythmic and technical dexterity. Scales and etudes generally practiced daily include all 12 major scales, intervals and rhythm patterns. A variety of band literature is studied, rehearsed and performed. All the members are in the marching band doing a variety of parade and field marching.

HS CHOIR (Grades 9 - 12, 1 credit, can be repeated for credit)

This course will provide the opportunity to sing a variety of choral literature for experienced singers. Students will build upon foundational vocal skills they have learned previously as well as expand their vocal technique training. Students will also develop sight-singing and aural music skills throughout the year. Students will participate in at least 1 or 2 performances per semester.

OTHER

ACADEMIC SUCCESS (Grades 9-12, 1 credit)

This course will focus on giving students an opportunity to receive help with other courses. Academic Success focuses on three components which include keeping a daily planner to help with organization, coming prepared to class, and also demonstrating positive work ethic. Students will utilize the class hour to check their grades and complete assignments for their individual courses.

COMMUNICATIONS (Grades 11-12, 1 credit)

This course will focus on the application of written and oral communication skills through a variety of formal and informal experiences. The course is performance-based and emphasizes effective interpersonal and team-building skills. This course will also involve the study of how interpersonal communication can be impacted by stereotypes, nonverbal cues, vocabulary and stylistic choices.

INDUSTRIAL ARTS I (Grades 9 - 12, 1 credit)

Industrial Arts will expose students to the tools and machines that they may encounter in manufacturing-related occupations and enable them to develop the skills they need to use these tools in various applications. Course topics may include drawing and planning, electricity, graphic arts, woodwork, leatherwork, metalwork, plastics, and power technology. This course will cover general safety as well.

INDUSTRIAL ARTS II (Grades 10 - 12, 1 credit)

Industrial Arts II is a continuation of Industrial Arts with a strong emphasis on furniture and cabinet construction. Students will explore various furniture styles and periods to help them adapt existing designs or create their own projects throughout the year. It is strongly suggested that the projects be entered into industrial arts' competitions. Areas of instruction include, but are not limited to: relief carving, advanced machine operations and joinery, laminating and veneering, wood science and mass production.

INDUSTRIAL ARTS III (Grades 11-12, 1 credit)

Industrial Arts II is a continuation of Industrial Arts with a strong emphasis on furniture and cabinet construction. Students will continue to explore various furniture styles and periods to help them adapt existing designs or create their own projects throughout the year. Projects in Industrial Arts III will be expected to be of great intricacy and detail that is demonstrative of learning in Industrial Arts II. It is strongly suggested that the projects be entered into industrial arts' competitions. Areas of instruction include, but are not limited to: relief carving, advanced machine operations and joinery, laminating and veneering, wood science and mass production.

INDUSTRIAL ARTS IV (Grade 12, 1 credit)

Industrial Arts IV is for the serious woodworker who could utilize college preparation with a woodworking focus. Projects will be assigned that meet postsecondary expectations with a professional emphasis. It is strongly suggested that the projects be entered into industrial arts competitions. Areas of instruction include, but are not limited to: relief carving, advanced machine operations and joinery, laminating and veneering, wood science and mass production. Teacher permission is required. Prerequisite: Industrial Arts III.

INSTRUCTIONAL TECHNOLOGY (Grade 10-12, 1 credit)

This class is designed for teaching students the basic knowledge of Google Suite. Google Suite includes a variety of programs which this class will focus on, including Google Docs, Google Slides, Google Sheets, and Google Forms. Additionally this class will help students focus on the memorization of the keyboard for improving typing skills.

PEER-TO-PEER (Grades 10-12, 1 credit)

Peer-to-peer will provide upperclassmen with the opportunity to offer tutorial assistance to their peers or younger students. After an initial training period during which students learn how to work with other students and how to make use of available resources (e.g. staff, written material, audiovisual aids, and so on), students engage in assisting others who require help to be successful in the classroom.

PSYCHOLOGY (Grades 11-12, .5 credit)

This course serves as an introduction to the field of psychology, which is the study of human behavior. As an introduction, the course touches on many aspects of the field of psychology and helps students to understand fundamental concepts of psychological principles, theories, terminology, experimentation, careers and practical application. Course components include the history of psychology, perspectives and research, developmental psychology, biology, personality & intelligence, classification and treatment of psychological disorders, problem-solving, as well as learning and motivation.

REPAIR (Grades 11-12, .5 credit)

Repair class provides students with knowledge and skills related to devices and systems in commercial, industrial and residential buildings and homes. Course content will include electrical wiring, plumbing, window and door repair, wall and floor repair, furniture repair and finishing and small appliance repair. Students will be instructed in areas of maintenance that are specific to day-to-day life activities.

YEARBOOK (Grades 10 - 12, 1 credit)

The Yearbook class focuses on working with the internet program Yearbook Avenue, which is affiliated with Jostens. Students will plan, design, and take pictures to create the school's yearbook. Some out of class time is required, specifically for the photography component. Additionally, the students will be involved in book sales and business advertisement sales.

EXTENDED-LEARNING PROGRAMS

To enroll in any of the following programs, the student must meet with the counselor to obtain an application. The requirements and deadlines for each program vary. To ensure acceptance into a program the student must complete the application and any other requirements by the provided deadline.

<u>Program</u>	Credit(s) Per Semester
Dual Enrollment	high school and college credit OR college credit only
Hillsdale County Early Middle College	high school and college credit OR college credit only
Work-Based Learning	varies
Hillsdale Area Careers Center	varies
Branch Area Careers Center	varies

EXTENDED-LEARNING PROGRAM DESCRIPTIONS

Dual Enrollment

Dual enrollment is a program that extends educational learning options for eligible students to take classes at a postsecondary institution while attending high school.

Eligible students - Students who have taken the PSAT 8/9, PSAT 10, NMSQT, or the SAT and have
met the scores below are eligible to dual enroll through Reading High School. Dual Enrollment can
be explored for students who do NOT meet the scores below, but at the student's expense.

PSAT 8/9/10/NMSQT: EBRW (460) & Mathematics (510)

SAT: EBRW (480) & Mathematics (530)

- Eligible Courses Courses must be academic as opposed to an activity course and cannot be a hobby, craft or recreational course. Physical education, theology, divinity or religious education courses are not eligible.
- Tuition and Fees The district will pay for tuition and fees, in proportion to the amount of the school
 year the student attends the post-secondary institution. Students must earn a 2.0 or higher or be
 billed for the cost of the course.
- Academic Credit Students will receive college credit with the option of receiving high school credit
 as well.

Hillsdale County Early Middle College (HCEMC)

The Early Middle College (EMC) Program gives students an opportunity to earn an associate's degree or certificate along with their high school diploma. Students will be able to save both time and money as they pursue a college degree from Jackson College through the utilization of an additional year of high school (13th grade) to complete their college program.

The EMC is structured so that students gradually increase their exposure to college courses over a five-year span. Initially, (9th-10th grades) all of the students' schedules will be comprised of traditional high school classes. As students progress through their educational plan (11th grade), they will be exposed to more college courses. By the time they reach the 13th grade, all of their coursework will likely be on-site

at the college campus. Students in the EMC program will receive support services to assist them in their transition from high school to college.

EMC expands on dual enrollment, and builds upon classes already offered. Students take courses at Jackson College campuses, but may also take advantage of on-line opportunities.

Students who consider the EMC must be willing, motivated, and up for the challenge to perform successfully at the college level. In addition to the college coursework, students must successfully complete all of the requirements of the Michigan Merit Curriculum.

Work-Based Learning

Work-based learning is defined as "sustained interactions with industry or community professionals in real workplace settings, to the extent practicable, or simulated environments at an educational institution that fosters in-depth, firsthand engagement with the tasks required in a given career field, that are aligned to curriculum and instruction."

Work-based learning experiences are conducted at a work site during or after school. They are designed to provide authentic learning experiences to students that link academic, technical and professional skills. Business and education partners work together to evaluate and supervise the experience, which must be documented with learning agreements.

Hillsdale Area Career Center (HACC) Programs

CONSTRUCTION TRADES

Construction Trades is a two-year program providing basic and advanced instruction in all areas of residential construction. The majority of training is hands-on at the HACC Construction Site. The instructional objective is to provide the students with core competencies in residential construction, preparing them for entry into post-secondary construction management, Carpentry Apprenticeship Programs, and entry-level work in construction trades. Students in this program build a single-family home from start to finish. The program of study in Construction Trades is part of the National Career Cluster called Architecture and Construction. Students will gain proficiency in correct, safe usage of hand, stationary and portable power tools commonly associated with residential construction. Students will also learn correct construction terms; basic construction concepts; materials usage, estimating and measurement. They will be instructed in the fundamentals of residential construction systems such as foundations, framing, window/door installation, roofing, siding, masonry, plumbing, and electrical wiring. There is a strong emphasis on math skills as it relates to the construction process. Students will apply math concepts through each phase of the home construction process. The understanding of these math concepts directly correlates to the quality of the build.

Students will work in a construction environment in which they will learn the importance of effective teamwork to meet construction schedules, to stay within project budget and to deliver a product, which meets specific quality objectives. Personal management skills necessary for success in the construction trades will be stressed. To develop leadership skills, students will have the opportunity to be crew leaders throughout the building process. Additional topics taught in the Construction Trades class include Site Preparation, Employability Skills, Green Technology Construction Techniques, exposure to Heavy Equipment/Civil Construction Techniques, and Construction Business Management.

Year 2 Students meeting the attendance and academic requirements may be provided the opportunity to improve their construction skills and employability through "on-the-job" work based learning experience in the field of construction. During the second year, students will be eligible to earn OSHA certification(s), Basic Construction Credentials as outlined by MDE and Basic First Aid/CPR certification. Successful completion of the two year program will allow students to earn Articulated College Credits through colleges and universities across Michigan through statewide articulation agreements.

CRIMINAL JUSTICE AND PUBLIC SAFETY

This program was developed through a cooperative partnership between HCISD, the Sheriff's Department, Jackson College and Kellogg Community College. Students will be introduced to the American Criminal Justice System through a variety of hands-on activities and simulations, classroom instruction, projects and demonstrations. Students gain insight into the organizational structure of our criminal justice system including policies and procedures, the development of legal and public policy and the interrelationship between the police, attorneys, courts and the correction system.

Individuals will be introduced to the skills required to perform the duties expected of Protective Service personnel including personal protection, CPR/First Responder, evidence collection, crowd management, traffic control, investigation and crime prevention. Second year students, meeting the academic and attendance criteria, (must be 18) may participate in a Criminal Justice Internship program. Students who meet all required competencies will be eligible for credentials in 911 Dispatch and Law Enforcement I. Students may earn articulated college credit upon successful completion of the program.

CYBERSECURTIY & DIGITAL FORENSICS

Cybersecurity is part of the Information Technology Career Cluster and would be of interest to individuals who want to use their skills and abilities to engage with hardware, software, network systems, or multimedia to create, design, and produce interactive products; design, develop, implement, and repair computer systems and software; and work with coding languages. This program provides exciting opportunities for student professionals in the high-demand and challenging world of Cybersecurity and Digital Forensics. It introduces the technologies used in the field such as computer maintenance, basic networking, and cybersecurity awareness. Students will learn how to troubleshoot and repair various hardware, software, and configuration problems. Students will also practice installing basic computer parts, networking components, and apply security concepts. Cybersecurity courses provide students with the knowledge and skills to assess cyber risks to computers, networks, and software programs. Students will learn how to create solutions to mitigate cybersecurity risks. Students learn how to plan, monitor, implement, and upgrade security measures for the protection of computer networks and information; as well as design and regulate firewalls, security controls, digital files, and vital electronic infrastructure. These courses will also cover the legal, environment and ethical computing behavior related to cybersecurity.

Second year students will have an opportunity to pursue different cybersecurity pathways: Advanced Certifications in Ethical Hacking, Cyber Defense; Server and Part 107 Commercial Drone Pilot License and Dual Enrollment

Students should expect to earn a variety of industry recognized certifications that will lead to immediate career advancement and opportunities and/or translate into articulated college credits through colleges and universities across Michigan. Successful completion of this 2 year program will result in the student earning articulated college credits through Jackson College. Credentials can be earned in many areas such as IFT, A+, Sec+, Net+, Linux+, Ethical Hacking, CCNA. Students meeting the academic and attendance requirements will be eligible to participate in Work Based Learning opportunities.

EDUCATION ACADEMY

The Education program is an innovative hands-on course designed for high school students who want to enter the field of education and to gain experience working with pre-school, elementary and middle school students. An instructional component will be integral to the "in-classroom" experience with a strong emphasis on writing. You will work with students in as many capacities as possible: tutoring, working on special projects, supervising small groups, and eventually teaching a lesson to the entire class. You may also help with various classroom preparation duties. You will strengthen your understanding of the teaching process by documenting your observations and achievements in a Careers in Education Portfolio. Classroom content will focus on child development, learning styles, teaching strategies, classroom management, components of a quality lesson plan and group dynamics as it pertains to the learning environment. The curriculum outlined by the Childhood Development Associate (CDA) and the Youth Development Associate (YDA) is aligned to this program. Students in this program will participate in classroom instruction as well as be assigned to participate in a school age classroom as a cadet teacher

where they will apply the skills they have learned. Students in this program will be eligible to earn their CDA and YDA credential at the completion of the 2 year program. These credentials will allow you to gain employment immediately after graduation and/or can translate to college credit for those that choose to further their education. This is a highly sought after credential with employment and post-secondary benefits. Some work with children outside of this program may be required depending on required contact hours. At the completion of this course, students will also be eligible to receive articulated college credits.

Students may be required to pass a background check and/or other safety and security measures required by partner organizations. Some program placements may require vaccinations, TB tests and/or fingerprinting.

HEALTH SCIENCES I/HEALTH SCIENCES II

The Health Sciences I program will assist students in developing the foundational knowledge and skills common to all health care occupations. They will develop core health care skills and competencies in medical terminology and medical math; anatomy and physiology; ethical and legal behavior; first aid and CPR; communication skills; confidentiality, and human growth and development. Ethics in the health profession is woven into the curriculum through readings, discussions and real world applications. The Health Science program is beneficial for students interested in all types of careers related to healthcare. Whether you are interested in being a nurse, physician, dentist, veterinarian, CNA, physical therapist, etc. this is the class for you. You will discover that the fundamentals for all healthcare professions begin here.

Health Sciences II (year 2) Semester 1 or 2 will focus on skills practice as it relates to Certified Nurses Assistant licensing. This course prepares students for the CNA state exam. Students take a deep dive into the health profession and the attributes of a health care worker. Students learn entry level nursing skills that are vital to patient care. Students are exposed to a variety of patient scenarios in varying health care settings. Exceptional work habits and skills are stressed as well as professionalism in the healthcare field. Second year students must qualify to participate in clinicals during their second semester. Students qualify by exhibiting proficiency in performing (checking off) on required Certified Nursing Assistant Skills as outlined by the MI Certified Nurse Aide program and demonstrating reliability through regular attendance. Students that do not qualify for clinicals will be required to complete additional curriculum as prescribed by the instructor during clinical rotations.

Semester 1 or 2 will focus on skills practice as it relates to Certified Phlebotomy Technician certification. This course prepares students for the CPT exam. Students focus on the proper processes and procedures utilized in the lab setting. Students are required to meet the instructional hour requirements as well as meeting the successful venipuncture and capillary draw requirements. Students who qualify will have an opportunity to take the CPT certification exam.

Students completing both years can earn a CNA Certification, CPT Certification and Basic Life/CPR Certification. Students in the Health Science program can earn articulated college credit throughout Michigan for the successful completion of the Health Science program.

Students must abide by Health Industry requirements to participate in clinical experiences. This may include vaccinations, background checks, drug screening, etc.

MECHATRONICS

Successful completers of this STEM (Science, Technology, Engineering and Math) based, 2-year program will gain foundational knowledge and skills in the high-demand, multidisciplinary area of mechatronics. "Mechatronics" comes from combining the words mechanical and electronics, though it actually also includes computer controls.

Mechatronics integrates principles from four engineering disciplines: electrical, mechanical, computer, and industrial. Thus, students will learn about robots, machines, electronics, hydraulics & pneumatics, electrical motor controls, sensors, computer-aided design (CAD), Solidworks, programming, programmable logic controls (PLC), diagnostics, computer numeric control (CNC), and other topics that

together form the basis of "smart" devices used in robotics and advanced automated systems. This important knowledge is needed not only by highly skilled technicians who help install, program, trouble-shoot and fix problems, but also by engineers who plan, design, develop, or otherwise work with complex mechatronic systems.

Utilizing the Design process will allow students to develop ideas from start to finish through a process widely used throughout Manufacturing and Engineering. Designs will be analyzed for strength and viability using advanced software and industry standards. All students will be exposed to and expect to be proficient in Basic Shop Math, Geometry for Manufacturing, Trigonometry for Manufacturing, Geometric Dimensioning and Tolerance, Blueprint Reading, Shop Safety, Machining Theory, Basic Machining Techniques and the Machinery's Handbook.

The 2 year program incorporates and builds upon their knowledge of mechatronics learned in the first year through more complex, project-based applications. This course provides the opportunity for senior-level students, meeting the academic and attendance requirements to gain an "on-the-job" work based learning experience in the career area of their choice. By successfully completing this 2 year program, students will be able to earn a variety of industry recognized credentials: OSHA 10, CSWA, CSWP, FANUC I, FANUC iRVision, Pneumatic Technology, Automation, AMT and others. Along with credentials students will earn articulated college credit through a variety of colleges and universities across Michigan. Students meeting the academic and attendance requirements could be eligible for Work based learning opportunities.

WELDING, BRAZING AND SOLDERING

Students will learn the five most common welding processes, Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), Oxy-Fuel Cutting (OFC), and Plasma Arc Cutting (PAC). Students will learn the safe operation of metal working tools and power hand tools. Students will weld basic joint designs for all processes in the flat, horizontal, vertical and overhead positions. Students will focus on the mechanics and art of welding as well as applying math concepts to the welding and manufacturing processes. Students will continually be applying these concepts to the process of welding in the lab setting. Students will learn the basics of blueprint reading and how it translates to welding and fabricating in the manufacturing setting. Safety is a priority in the Welding program and students will be required to adhere to all safety protocols outlined by the Instructor and OSHA. Students will be expected to earn their OSHA 10 certification during this program.

Second year students will weld advanced joint design in all the processes and all positions. Fabrication of metal (weldments) utilizing layout diagrams, sketches, prints and verbal instructions will be completed. Students will take the American Welding Society SENSE Certification I and II credential tests to gain industry recognized credentials. Second year students that meet the academic and attendance requirements will be eligible for Work Based Learning placements at local manufacturing sites which could lead to immediate employment after graduation. Second year students wanting to pursue advanced manufacturing pathways may be eligible for FANUC Robotics training and certification.

Students successfully completing this 2 year program will be eligible for articulated college credit and certifications that will advance their career as they enter the workforce or continue their education after graduation.

Branch Area Career Center (BACC) PROGRAMS

Only those programs not offered through the Hillsdale Area Career Center (HACC) will be permitted for enrollment

AGRICULTURE, FOOD & NATURAL RESOURCE

Students explore areas of animal and veterinary science, water quality studies, crop and soil sciences, agri-science research, aquaculture, and horticulture. EAS students work in real-life situations on the 180-acre land lab, which includes housing for 5 different species of livestock, 150 acres of crops, two greenhouses, and a Michigan Native Tree Arboretum. In addition, they will be involved in leadership as well as Agriculture and Natural Resources skill development activities, and job shadow experiences. Qualified seniors will have the opportunity of On-The-Job Training (OJT).

AUTOBODY & CUSTOM PAINT

A person taking the Collision Repair and Coatings Technologies program should have an interest in all aspects of car body/framework. The various tasks you perform are numerous and range from minor to major collision repair, panel replacement, frame repair, estimating damage, mig welding, sanding, masking, painting, and custom airbrushing. Students have the opportunity to be state and EPA certified. For qualified second year students, there are opportunities for On-The-Job Training (OJT), Work Experience, and Job Shadowing.

AUTOMOTIVE TECHNOLOGIES

The Automotive Technologies program prepares students for the automotive repair field by providing training in engine repair, automatic transmissions, manual transmissions, suspension and steering, brakes, electrical, heating and air conditioning, and engine performance. This program follows NATEF's Maintenance and Light Repair standards. Successful students will complete the 2 year course with an ASE GS1 certification.

BUSINESS MANAGEMENT, MARKETING, & TECHNOLOGY

Students in Business, Management, Marketing, and Technology experience managing a business, as they purchase from other businesses, manage accounts payable/receivable and payroll, create business correspondence and advertising, and learn about human resource management. BMMT students utilize the latest business technology required to carry out day-to-day business operations. Students get hands-on experience in the BMMT businesses. Students will become entrepreneurs as they start their own businesses, from start to finish – including completion of a comprehensive business plan. In addition, students with an interest in accounting may qualify for the specialized accounting component.

CULINARY ARTS

The program is a two-year National Restaurant Association's Educational Foundation (NRAEF) ProStart Certification course. The NRAEF ProStart curriculum introduces the student to the interrelated industry of lodging, food service, culinary arts, commercial baking, and travel and tourism. Students are also offered the ServSafe Sanitation Certification during their senior year. Students acquire core skills needed for the service industry, fundamentals of professional food preparation and food safety as well as introduction to hospitality and tourism business topics including customer relations, accounting, cost controls, and marketing. Second year students may qualify for Work Experience Site rotations in local hospitality businesses.

ELECTRICAL AUTOMATION & ENGINEERING TECHNOLOGIES

The program provides a solid background in electrical theory and gives the student a spring-board to many different career opportunities in challenging fields. Students will be exposed to many electrical certifications such as OSHA safety, Lock-out/Tag-out, Arch Flash, ladder and personal lifts. Students will explore residential, commercial, and industrial electricity, low voltage networking, fire and security systems, industrial motor controls, machine control wiring, programmable logic controllers, and automated systems. Second year students may be eligible for FANUC Robotics training and certification.

MICHIGAN MERIT CURRICULUM

The Merit Core content standards may be met in a traditional course sequence or in different contexts or formats such as a Humanities course sequence, Career and Technical Education programs, or a specialized small school curriculum, or as an online course. Schools that offer courses in a different format must be prepared to demonstrate how these courses align with the Merit Core content standards and demonstrate how the content standards will be assessed. In all instances it is expected that technology, including assistive technology devices and services will be used to deliver instruction to meet the Michigan Merit Core content standards.

English Language Arts (4 credits):

Credits to include:

English 9 English 10 English 11 English 12

Mathematics (4 credits):

Credits to include:

Algebra I Geometry Algebra II

An additional math or math related class *Math must be taken in the senior year.

Science (3 credits):

Credits to include:

Biology Chemistry Physics

An additional year of science (if needed)

Social Science (3 credits):

Credits to include:

U.S. History World History

Government (Civics)/Economics

Health/Physical Education (1 credit):

Credits to include:

PE/Health

Visual/Performing/Applied Arts (1 credit):

Credits to include:

Art Band Choir

Industrial Arts Yearbook

World Language (*2 credits):

Credits to include:

Spanish I/II/III/IV

^{*}One year must be a World Language; however, the second year may be substituted for an approved CTE credit or an additional VPAA credit.



Embedded Credit

*Revised 2023

The table below describes which Michigan Merit Curriculum requirements may be met through programs at the Hillsdale Area Career Center. The final decision regarding awarding credit for core academic courses and electives toward graduation lies within your home school district's board policy.

Program Name	English 12	Final Year Math	Science (Waiver, No PC Required)	2nd year Science (Content Integrated)	Social Studies	P.E. Related	Visual, Performing and Applied Arts	Online Learning (Content Integrated)	Language 2nd year (Waiver, No PC Required)
Construction Trades	1/2A	x	X		PC	PC	X CI	X CI	x
Criminal Justice & Public Safety	1/2A	×	X**		X CI (Civics)	X CI	х	X CI	X
Cyber- security	1/2A	x *	X*	X <u>Computer</u> <u>Science</u> CI	PC	PC	х	X CI	X*
Mechatronics	1/2A	X 2 16	X		PC	PC	X CI	X CI	77 ×
Health Science	1/2A 1/2B	X	X *	X*(HS1) Anatomy/Ph ysiologyCI	PC	PC	х	хсі	_ x
Welding	1/2A	×	x		PC	PC	X CI	X CI	×
Education Academy	1/2A 1/2B	X	X		PC	PC	хсі	X CI	X

- X* Credit given after successful completion of a 1 year CTE program
- X** Credit can be given after successful completion of full year of program that includes Forensic science competencies
- **X CI** Credit given after successful completion of a 2 year CTE program, Curriculum standards are integrated into CTE program and have been crosswalked.
- PC Credit may be replaced with a Personal Curriculum upon successful completion of CTE program.
- ½ A ELA credit Technical Writing: Resume, Portfolio pieces, Letters, Brochures, Articles/Response, presentations, research (3-5) pages, IXL ELA and NRI (grammar, punctuation, vocabulary) upon successful completion of CTE program
- ½ **B** ELA/Literature credit: Writings (reflections, opinion, presentations,) and Novels, Non-fiction readings for successful completion of the program

~Successful completion for MMC flexibility is defined as passing. Do not confuse with "Completer" definition that is used for CTEIS/CTE funding/OCTE

BRANCH AREA CAREERS CENTER ACADEMIC CREDIT OFFERINGS

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ses, Mgmt., Marketing, & yes 1 credit 1	Auto Technologies	yes	1 credit	1 credit			
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Voc 1 coodit	Career Readiness & Exploration			1 credit			
1 5 5 6 6 7 1	Construction Trades	Yes	1 credit	1 credit			

** Computer Applications Credit is available

* Based on 2 years in the program Because On the Job Training and Education Academy learning experiences take place off-site, academic credit is not currently available.

Academic credit will be awarded based on dialogue between the BACC academic consultant and the LEA administration. For More Information Contact: LeeAnne Nagle Mathematics Consultant Susan Quiter Language Arts Consultant

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