

Chesaning Union High School
Curriculum Guide
2018 - 2019 School Year
Graduation Requirements

Class of	Number of Credits
2018 and beyond	27

ENGLISH (4 Credits)

English I, II, III, IV (or Communication Skills)

MATH (4.5 Credits)*

***Beginning w/class of 2018**

Algebra I, Geometry, Algebra II, *at least* 1 trimester during senior year, plus additional credit(s) as needed to total 4.5

SCIENCE (3 Credits)

Biology, Earth Science, Chemistry, Physics A

SOCIAL STUDIES (3.5 Credits)

U.S. History, World History, Civics (.5 credit), Economics (.5 credit), Contemporary American History (.5 credit)

HEALTH (.5 Credit)

1 Trimester Course

PHYSICAL EDUCATION (.5 Credit)

1 Trimester Course

VISUAL, PERFORMING OR APPLIED ARTS (1 Credit)

See * Classes

FOREIGN LANGUAGE (2 Credits)

Spanish I, Spanish II

In order to have their senior pictures published in the yearbook, students must have the following credits by December 1st of their senior year:

Class of	Number of Credits
2018 and beyond	22

In order to have their names in the graduation program, students must have the following credits by May 1st of their senior year:

Class of	Number of Credits
2018 and beyond	24.5

In order to participate in the graduation ceremony, students must have the following credits by the date of graduation:

Class of	Number of Credits
2018 and beyond	27

**A student will receive .5 credit for each class period passed per trimester.

**Each student will take 5 class hours each trimester.

NOTICE OF NONDISCRIMINATION

The Chesaning Union School District does not discriminate on the basis of race, color, national origin, sex, age, religion, height, weight, marital status or disability in its educational programs and activities.

The Chesaning Union School District does not discriminate on the basis of race, color, national origin, sex, age, religion, height, weight, marital status or disability in admission to or employment in its education programs and activities.

The following person has been designated to handle inquiries regarding the nondiscrimination policies:

Mike McGough, Title IX Coordinator
Chesaning Union Schools
P.O. Box 95
Chesaning, MI 48616
(989) 845-7020.

Required Freshman Courses

COURSE
English I
Biology or Agricultural Biology
United States History
Algebra I OR Geometry
Spanish I
Research 101 – 1 trimester
Earth Science

Required Sophomore Courses

COURSE
English II
Chemistry OR Conceptual Chemistry
World History
Geometry or Algebra II
Spanish II or 1 credit VPA
Careers – 1 trimester

Required Junior Courses

COURSE
English III OR English III Honors
Economics/Civics
Algebra II OR Math elective
Physics A OR Conceptual Physics
Test Prep

Required Senior Courses

COURSE
Contemporary American History
Senior Integrated Project
English IV OR Communication Skills
Math elective

Other Requirements

COURSE

Health
Physical Education
Visual/Performing or Applied Arts

YEAR LONG ELECTIVES – 1.5 CREDITS EACH

COURSE	RECOMMENDATIONS
*Band	Prior participation in band/approval of band director
*Choir	Prior participation in choir/approval of choir director
*Media I or II	2.0 GPA, Grades 10-12
*Yearbook	Approval of instructor
AP Biology	“B” or higher in Chemistry and Biology
AP Calculus	“C” or higher in Trigonometry and Pre-Calculus
AP Chemistry	“B” or higher in Chemistry
Honors English	“B” or higher sophomore year in ELA 10A and 10B
AP Computer Science	

2 TRIMESTER ELECTIVES - 1 CREDIT EACH

COURSE	RECOMMENDATIONS
Spanish I, II, III or IV	Recommended for University-bound students
Accounting	Grades 11-12
Animal Science	
Chemistry II	Chemistry I or Honors Chemistry
Human Anatomy	Grades 11-12
Robotics	Approval of Instructor
Computer Science Discoveries	Grades 9-10

Advanced Studies in Agriculture and Natural Resources	Grade 10
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* These courses satisfy the Visual, Performing, Applied Arts credit requirement. Two Trimesters are required.

1 TRIMESTER ELECTIVES - .5 CREDIT EACH

COURSE	RECOMMENDATIONS
*Drawing	
*Painting	
*Ceramics	
*Applied Arts	Grades 10-11-12
*Drawing II	Drawing
*Painting II	Painting
*Advanced Art	“B” or higher in at least 3 art classes
*Desktop Publishing/Design	Grades 10-11-12
Business Mngt Admin	Grades 11-12
Business Mngt Operations	Grades 11-12
*Acting and Stage Craft	
*Creative Writing	
Greek Mythology	
*Speech/Communication	
Multicultural Literature	Grades 10-11-12
*Basic Auto	
*Engine Repair	
*Advanced Auto	Basic Auto
*Auto Electrical Systems	Basic Auto
*Welding I	Grades 11-12
*Welding II	Welding I
*General Woods	
*Skilled Trades	Grades 10-11-12
Statistics	Grades 11-12
Probability	Grades 11-12
Personal Finance	Grades 11-12
Beginning PE I	
Health	
Advanced PE II	Beginning PE I

Dynamic Perf. Training	Beginning PE I
Competitive Team Sports	Beginning PE I
Yoga/Pilates	Beginning PE I
Fisheries/Wildlife Mngt	2 nd Trimester
Plant Science	3 rd Trimester
Bioethics	Grades 11-12
Food Science	Grades 11-12
Agribusiness Mgmt	Grades 11-12
Agriculture Internship	Grades 11-12
Small Animal Mgmt	Grades 11-12
Veterinary Science	Grades 11-12
Floral Design	Grades 11-12
Agriculture Issues/Commun.	Grades 11-12
Botany	Grades 11-12
Precalculus	Grades 11-12
Trigonometry	Grades 11-12
Physics B	Grades 11-12
Forensic Science	Grades 11-12
Environmental Science	Grades 11-12
Sociology	Grades 11-12
Humanities I	Grades 11-12
Psychology	Grades 11-12
Child Dev/Parenting	Grades 11-12
Expl. In Entrepreneurship	Grades 11-12
History & Film	Grades 11-12
Michigan History	

ART

***Drawing**

Grades 9-10-11-12

0.5 Elective Credit

1 Trimester

This class focuses on drawing accurately using several different technical methods, including units of measure, graphing and coordinate plane. This class will explore several different media, including, but not limited to, graphite, charcoal, and colored

pencil. At the end of this course, students will be able to accurately draw from life and from printed material to generate two-dimensional work that demonstrates an understanding of the elements and principles of design. The student will have knowledge of drawing and two-dimensional design throughout history. No prerequisites required.

***Drawing II**

Grades 10-11-12 0.5 Elective Credit 1 Trimester

Pre-requisite: Drawing

This class builds on the basic information learned in Drawing. The students will use the basic technical skills to create flat artwork that demonstrates a deep understanding of composition, principles of art, and synthesizing multiple parts of a visual problem to communicate a specific message.

***Painting**

Grades 9-10-11-12 0.5 Elective Credit 1 Trimester

Class will focus on the basics of color theory through the exploration of different painting media, including, but not limited to, tempera, pastels, and acrylics. The students will be able to produce several paintings that demonstrate an understanding of the principles of design. The students will have a knowledge of painting throughout history. No prerequisites required.

***Painting II**

Grades 10-11-12 0.5 Elective Credit 1 Trimester

Pre-requisite: Painting

This class is a continuation of the basic information provided in Painting. Students will be composing paintings using and combining several different media to communicate a message, emotions, and metaphors through two-dimensional color work.

***Ceramics**

Grades 9-10-11-12 0.5 Elective Credit 1 Trimester

The class will focus on the basics of creating three-dimensional form that is both functional and aesthetic. The students will work in low-fire clay and glazes to create functional and non-functional pottery and sculptures that demonstrate texture, space and unity. No prerequisites required.

***Advanced Art**

Grades 11-12 0.5 Elective Credit 1 Trimester

Pre-requisite: Students must successfully complete 3 art classes with a B or higher.

This class will be an in-depth study of painting, drawing, and/or three-dimensional art forms using advanced compositions and technical skills. At the end of the class, the

students will produce a digital portfolio that will be ready to show to prospective art colleges for the purpose of admission.

***Applied Arts (formerly Crafts)**

Grades 10-11-12 0.5 Elective Credit 1 Trimester

WARNING: Students will work with materials that are hot or sharp. Safety procedures must be followed at all times.

This class is designed to visit the world throughout time by learning about functional crafts and then applying ancient and modern techniques to create an artful two-dimensional and three-dimensional product. The class will focus on colonial tin ceilings, ancient Japanese fabric story-telling, American counter-culture clothing, African jewelry-making skills, and European glasswork. No prerequisite required.

BUSINESS

Accounting

Grade 11-12 1.0 Elective Credit 2 Trimesters

This course may be considered as a fourth math credit when taken during a student's senior year. The Accounting class is designed to provide students with the skills basic to the accounting departments of small businesses. Accounting is considered the language of business; therefore, it is a crucial component of academic backgrounds for students who will pursue entrepreneurial adventures, professional careers or small business ownership. **Articulation credit through Delta College is available for juniors and seniors.**

Senior Integrated Project

Grade 12 0.5 Required Credit 1 Trimester

This project-based course will prepare students for various post-secondary responsibilities. Topics include career research, job interviewing skills, applying to college, scholarship opportunities, and work place readiness. Students are required to complete a senior project, research paper, portfolio and a final presentation to a panel of judges.

Career Exploration

Grade 10

0.5 Required Credit

1 Trimester

This sophomore level course will provide the beginning components of career exploration and planning. Students will engage in career exploration related to the Michigan Career Pathways: Arts & Communication, Business, Management, Marketing & Technology, Engineering/Manufacturing & Industrial Technology, Health Services, Human Services, Natural Resources, & Agri-Science. The focus is on self-assessment in terms of educational and career opportunities and reasonable possibilities in the world of work.

Business Management A

Grades 11-12

0.5 Elective Credit

1 Trimester

This course is part of the Michigan Career and Technical Education Program (MCCTE) Business Management and Administrative Pathway. It emphasizes the mastery of computer skills in Microsoft PowerPoint and Word Basic and provides students with the chance to earn industry recognized MOS Certification that will prepare them for college and careers. International business, human resource personnel administration, operations, quality, and business management and leadership will be explored as students become the boss of their own company in an online simulation managing a manufacturing facility.

Business Management B

Grades 11-12

0.5 Elective Credit

1 Trimester

Business Management A is a pre-requisite for this course.

This course is part of the Michigan Career and Technical Education Program (MCCTE) Business Management and Administrative Pathway. It emphasizes the mastery of computer skills in Microsoft Excel and Word Expert and provides students with the chance to earn industry recognized MOS Certification that will prepare them for college and careers. Data management and administration, business planning and entrepreneurship, financial analysis and economics and law, ethics and government regulations will be explored as students learn the tough business decisions that impact their common shopping experiences or a successful restaurant.

TECHNOLOGY

***Desktop Publishing & Design**

Grades 10-11-12

0.5 Elective Credit

1 Trimester

Get ready to explore a variety of multimedia and design concepts!! Students will incorporate principles in design and layout of publications to create quality materials for business-related tasks. Digital photography and photo editing will also be introduced.

ENGLISH

English I A

Grade 9

0.5 Required Credit

1 Trimester

Students will study vocabulary, grammar and usage, fiction, and nonfiction texts as well as developing analytical skills and strategies while moving through a variety of literature genres. Students will study and write Personal Narratives, Literary Essays and be introduced to the basics of Argumentation. Students will use the Writer's Workshop to complete final writing pieces and will be expected to work cooperatively in group settings. Students will also be expected to read independently for sustained periods of time with a two book requirement per trimester.

English I B

Grade 9

0.5 Required Credit

1 Trimester

Students will study vocabulary, grammar and usage, fiction, and nonfiction texts as well as read a range of advertisements across marketing sub-genres. Students will apply their knowledge of informational texts to read critically, make inferences and analyze bias. Units of study will include writing the Argument and Informational Essays. Students will use the Writer's Workshop to complete final writing pieces and will be expected to work cooperatively in group settings. Students will also be expected to read independently for sustained periods of time with a two book requirement per trimester.

English II A

Grade 10

0.5 Required Credit

1 Trimester

Students will study vocabulary, grammar and usage, fiction and nonfiction texts. Units include Poetry, Autobiography/Biography/Memoir, Basics of Argumentation: Movie Review, and World Literature with comparative reading of multiple texts. Students will use the Writer's Workshop to complete final writing pieces and will be expected to work cooperatively in group settings.

Students will also be expected to read independently for sustained periods of time with a two book requirement per trimester.

English II B

Grade 10 **0.5 Required Credit** **1 Trimester**

Students will continue their study of vocabulary, grammar and usage, fiction and nonfiction texts. Units will include Literary Essay: Developing Thematic Analysis, Informational Reading: Analytical Reading of Foundational United States Documents, Informational Essay: Shared Research and Technology-based Publication and Writing the Argument: Op-Ed. Students will use the Writer's Workshop to complete final writing pieces and will be expected to work cooperatively in group settings. Students will be required to read two books independently.

English III A

Grade 11 **0.5 Required Credit** **1 Trimester**

Skill development in grammar, usage, literature, composition, and speech will continue to be a main focus of English III. Practical English skills will be highlighted with an emphasis on writing skills. Themes of technology, decision making, human nature, and the power of language will be explored through various fiction and nonfiction texts. Students will explore Shakespeare's *Hamlet* and William Golding's *Lord of the Flies*. Argumentative writing will be strongly emphasized.

English III B

Grade 11 **0.5 Required Credit** **1 Trimester**

Skill development in grammar, usage, literature, composition, and speech will continue being a main focus of English III. Practical English skills will be highlighted with an emphasis on writing skills. Themes of technology, decision making, human nature, and the power of language will be explored through various fiction and nonfiction texts. Students will explore various short stories with a thematic focus of technology and various dystopian novels.

English III Accelerated A

Grade 11 **0.5 Required Credit** **1 Trimester**

Students will focus on vocabulary, grammar and usage, fiction and nonfiction texts during this course. A heavy emphasis will be placed on collegiate writing and literary analysis. Units will include a Memoir, Analytical Reading of Multiple Texts: Satire in American Literature, and The Impact of Author's Craft in a Genre Study: William Shakespeare's *Hamlet*. Students will use the Writer's Workshop to complete final writing pieces and will be expected to work cooperatively in group settings. Students will also be expected to read independently for sustained periods of time with a four

book requirement per trimester. Must maintain a B average to remain in Accelerated English.

English III Accelerated B

Grade 11 **0.5 Required Credit** **1 Trimester**

Students will focus on vocabulary, grammar and usage, fiction and nonfiction texts during this course. A heavy emphasis will be placed on collegiate writing and literary analysis. Units will include Analytical Reading of Seminal United States Documents focusing on the Bill of Rights, Power in Social Settings, a Dystopian Study, and Sustained Research on a Personal Inquiry. Students will use the Writer’s Workshop to complete final writing pieces and will be expected to work cooperatively in group settings. Students will also be expected to read independently for sustained periods of time with a four book requirement per trimester. Must maintain a B average to remain in Accelerated English.

English IV A

Grade 12 **0.5 Required Credit** **1 Trimester**

This course is designed to further your English skills by providing a survey in workplace and world literature. The writing to be done in this class is specifically designed toward the type of writing you will encounter in the workplace and community college environment. This class will be extending upon the English studies covered in the last three years, so independent and class reference back to previous studies will be an integral portion of your advancing knowledge. Students will read a variety of literature and nonfiction texts.

English IV B

Grade 12 **0.5 Required Credit** **1 Trimester**

This course is designed to further your English skills by providing a survey in workplace and world literature. The writing to be done in this class is specifically designed toward the type of writing you will encounter in the workplace and community college environment. This class will be extending upon the English studies covered in the last three years, so independent and class reference back to previous studies will be an integral portion of your advancing knowledge. Students will read Jumpa Lahiri’s *The Namesake*. Students will read a variety of fiction and nonfiction texts.

Communication Skills A

Grade 12 **0.5 Required Credit** **1 Trimester**

This course is taught as a college level class emphasizing reading, writing and critical thinking to strengthen essential communication skills that will be necessary for success in all college and university settings. Writing will include: summaries, rhetorical analysis, persuasive, editorial, personal narratives and a major documented research

***Media I**

Grades 10-11-12

1.5 Elective Credit

3 Trimesters

Recommendations: 2.00 GPA

Students will learn about two main avenues of media. They will have hands-on experience in developing and making a daily TV and radio program. They will work on a variety of jobs to attain these two goals. This class involves a lot of independent study, as such, every student should be a self-directed learner. Each student will be expected to conduct an interview and research and write news copy. All media students will need to be out of the building at various times as well as work after school and some evenings. Students will tour a professional TV and radio studio for career development. The goal is to perfect broadcast skills in order to work on WCHS in Media II class. Students will be graded on hands-on skill development in editing as well as tests over the book.

*Sports Broadcasting- If the student chooses they may cater their media learning toward sports broadcasting. In this case, students will attend multiple sporting events and report upon them as a requirement of the class.

***Media II**

Grades 10-11-12

1.5 Elective Credit

3 Trimesters

Recommendations: Passing grade of C+ or better in Media I

Students will learn about media through the world of TV broadcasting. They will have hands-on experience in developing and making a daily TV program: WCHS. Students will work on a variety of jobs to attain this goal. This class will be the main impetus in the making of shows for WCHS, our Chesaning High School youtube channel. This class involves a lot of independent study; student should be a self-directed learner. The students are tested on their skills in editing and producing.

*Sports Broadcasting- If the student chooses they may cater their media learning toward sports broadcasting. In this case, students will attend multiple sporting events and report upon them as a requirement of the class.

***Yearbook**

Grades 10-11-12

1.5 Elective Credit

3 Trimesters

Recommendations: Grades 10-12, Approved Application from the instructor.

The first 2 trimesters will focus on the production of the yearbook, utilizing students' skills in writing, graphic design, business management, leadership, and marketing. The 3rd trimester will focus on improving students writing, photo editing, and computer aided design skills. All students enrolled in this course will be required to attend different afterschool events, speak on the phone, and use a computer to complete assignments.

Research 101

Grade 9 0.5 Required Credit 1 Trimester

Research 101 is an introductory class on how to properly research topics for all classes. A combination of English, technology, and inquiry, Research 101 covers all aspects of how to complete quality research and apply it to your subject. Topics include effective methods for locating sources, recognizing if those are credible or not, and the proper application of that information. Research 101 will encourage the use of multiple sources to confirm accurate information. It will distinguish the differences of using information for various curriculums (i.e. an English paper vs. a Science paper). Emphasis will be put on proper use of in-text citations, creating an accurate citation page, and updated MLA and APA styles.

Multicultural Literature

Grades 10-12 0.5 Elective Credit 1 Trimester

Students will read a variety of literature from various cultural perspectives, such as African American, Latino, Feminine, Native American, and Asian American. Cultural values, attitudes, and beliefs will be discussed and compared. Students will also explore these cultural perspectives through the study of music, film, poetry, and nonfictional accounts.

FINE ARTS

***Choir**

Grades 9-10-11-12 1.5 Elective Credit 3 Trimesters

Recommendations: Participation in the Middle School choir program and/or director approval.

This class is for any student who seriously wishes to have a singing and musical experience. **Regular classroom attendance is imperative!** Choir is a year-long course and covers five main areas. The student will have the opportunity to:

1. Develop his/her own singing skills.
2. Develop the ability to sing in parts and become a contributing member of a choral group.
3. Develop the theoretical skills necessary to read, understand and perform music on the printed page.

4. Perform in public concerts, assemblies and festivals.
5. Possibly perform community service through performances at local functions.

The choir will have a number of rehearsal and concert performances outside the regular school day that are most important to the purpose of the class. **Attendance at these events is required.** Students who cannot comply with this requirement should avoid registering for choir. The student's grade and ultimate credit will directly depend on the amount of growth demonstrated by the student in the areas listed above.

There will be sessions of music appreciation, history and music theory included.

***Band**

Grades 9-10-11-12 1.5 Elective Credit 3 Trimesters

Pre-requisite: Students have been previously enrolled in the instrumental music program or have experience on a band instrument.

This year-long course emphasizes the development of musical skills. The High School Band appears in concerts, athletic events, parades, festivals, civic functions and other public performances.

During the first portion of the first trimester, band students are required to participate in marching band. The marching band portion of the trimester includes preparing a half-time show for varsity home football games. Each year new maneuvers, formations, and musical/marching ideas are utilized. To help prepare in learning these concepts, a summer band camp is scheduled for students to attend. For the remainder of the first trimester, students will shift to concert season.

During the second trimester of this year-long course, band will continue to focus on musical skills for concert season. There will be performances to display students' talents. Also during this time, students will have the opportunity to participate in basketball pep band, along with solo and ensemble festival. As a band, we will participate in a band festival to help further students' musical understanding and abilities.

The third trimester of this year-long course continues to build musical skills while also providing potential travel opportunities. Band trips are at the discretion of the director, but parents will be notified well in advance to begin making the necessary accommodations. The band will also perform a concert and at high school graduation during this trimester.

***The Michigan Department of Education gives school districts the opportunity to recognize Marching Band as an extracurricular activity that can be counted towards the Physical Education graduation requirement. The high school Band Director will incorporate all PE standards as part of the Marching Band curriculum. In order to count the ½ credit for PE, students and parents/ guardians must complete the opt-in form, and students must complete two years of Marching Band (due to the length of Marching Band season).*

***Acting and Stage Craft**

Grades 9-10-11-12 0.5 Elective Credit 1 Trimester

This course is designed to give students a practical, working knowledge of the theatre arts that are necessary to perform a professional stage production. Students will be expected to participate as a performer, technician and a critiquing audience member throughout the trimester. Major units will include: script analysis, movement, vocal enrichment, ensemble building, blocking, improvisation, lighting, sound, makeup, and set design. The class will end with an original capstone performance for the Chesaning community.

FOREIGN LANGUAGE

Spanish I A

Grades 9-10-11-12 0.5 Required Credit 1 Trimester
(Beginning with Class of 2016)

Spanish I A is an entry level course. Listening and comprehension skills are stressed. The basic elements of vocabulary and grammar are introduced.

Spanish I B

Grades 9-10-11-12 0.5 Required Credit 1 Trimester
(Beginning with Class of 2016)

Spanish I B is a continuation of Spanish I A. Listening and comprehension skills are stressed. The basic elements of vocabulary and grammar are introduced.

Spanish II A

Grades 10-11-12 0.5 Required Credit or 1 VPA credit 1 Trimester
(Beginning with Class of 2016)

Spanish II A stresses speaking, reading, and writing. The study of grammar is expanded to include present, past, reflexive, and special constructions.

Spanish II B

Grades 10-11-12 0.5 Required Credit or 1 VPA credit 1 Trimester
(Beginning with Class of 2016)

Spanish II B is a continuation of Spanish II A. The course stresses speaking, reading, and writing. The study of grammar is expanded to include present, past, reflexive, and special constructions

Spanish III A

Grades 10-11-12 0.5 Elective Credit 1 Trimester

Recommendations: Spanish II with "C" average proficiency.

Spanish III A is for the student intent on language study at the college level. All of the tenses are introduced and emphasis is on spoken and written Spanish. Hispanic culture is featured with emphasis on group discussions of comparative cultures.

Spanish III B

Grades 10-11-12 0.5 Elective Credit 1 Trimester

Spanish III B is a continuation of Spanish III A. Spanish III B is designed for the student intent on language study at the college level. All of the tenses are introduced and emphasis is on spoken and written Spanish. Hispanic Culture is featured with emphasis on group discussions of comparative cultures.

Spanish IV A

Grade 11-12 0.5 Elective Credit 1 Trimester

Recommendations: Spanish III with "C" average proficiency.

Spanish IV A is for the student intent on language study at the college level. All of the tenses are reviewed and emphasis is placed on reading, vocabulary, and the expansion of oral proficiency. Spanish IV A may be done on an independent study basis.

Spanish IV B

Grade 11-12 0.5 Elective Credit 1 Trimester

Spanish IV B is a continuation of Spanish IV A. It is designed for the student intent on language study at the college level. All of the tenses are reviewed and emphasis is placed on reading, vocabulary, and the expansion of oral proficiency. Spanish IV B may be done on an independent study basis.

HEALTH EDUCATION

Health

Grades 9-10-11-12 0.5 Required Credit 1 Trimester

Your body is the vehicle that gets you through life and this course is aimed to educate students on how to be a healthy, holistic individual. In this course, students will learn and practice healthy habits and skills that they can use for a lifetime. The following units will be covered throughout the trimester: Nutrition, Alcohol, Tobacco and Drugs, Safety & Emotional Health, Personal Health & Wellness, HIV Prevention along with Sexuality Education (approved by Chesaning Public Schools Board of Education). Before this unit, an informative letter will be sent home to parents about the unit. Within each of those units, the following concepts will be taught: Core Concepts, Accessing Information, Health Behaviors, Influences, Goal Setting, Decision Making Social Skills and Advocacy. This class has a large emphasis on the effort level students put into their work and how accountable they are with their decision making.

INDUSTRIAL TECHNOLOGY

***Basic Automotive I**

Grades 9-10-11-12 0.5 Elective Credit 1 Trimester

This class is for students who want to know how to do basic auto maintenance. Upon completion of this course, students will demonstrate an understanding of auto service, safety practices, tools, materials, auto insurance, warranties, and more.

***Engine Repair (Automotive)**

Grades 9-10-11-12 0.5 Elective Credit 1 Trimester

In this course students will cover engine size, displacement, compression ratios, horsepower, torque, engine overhaul, cooling system, and lubrication system. Students will also be using different measuring tools to decide engine wear.

***General Woodworking**

Grades 9-10-11-12 0.5 Elective Credit 1 Trimester

This course is designed to teach proper procedures in the use of woodworking hand tools, machines, materials, assembly of wood products and wood finishes.

***Advanced Automotive/Electrical Systems**

Grades 11-12 0.5 Elective Credit 1 Trimester

Pre-requisite: Basic Automotive I

This course will cover suspension, alignment, advance braking systems (this will include anti-lock brake systems) and differentials. It will also cover ignition, batteries, starters, charging, and computer/fuel systems. This class will go into more detail about each subject area.

***Welding I**

Grades 11-12 0.5 Elective Credit 1 Trimester

The course will cover some basic welding procedures; oxy-fuel, gas welding of flat strips 1/8" or less in thickness, and cutting, beveling and piercing plate and pipe. The class will also include striking an arc, running beads, pad welding, and fillet welds. This class will also address safety in use of equipment for oxy-fuel gas welding and arc welding.

***Welding II**

Grades 11-12 0.5 Elective Credit 1 Trimester

Pre-requisite: Welding I

Course will cover more advanced welding procedures using oxy-fuel, arc welding and MIG.

***Intro to Skilled Trades**

Grades 10-12

0.5 Elective Credit

1 Trimester

Intro to Skilled Trades is a class recommended for those wishing to own their own homes and cars, or wanting to enter a Skilled Trades field. This class will incorporate the responsibilities of home and car ownership and maintenance. This may include, but not limited to, basic electrical, plumbing, heating, exterior and interior maintenance of a home, basic intro to welding, and minor repairs to a vehicle. Students will learn what it will take to become a professional in the skilled trades area they are interested in.

MATHEMATICS

Algebra I

Grade 9

1.5 Required Credit

3 Trimesters

****A scientific calculator is recommended.**

This year-long course introduces students to expressions, equations, and operations in algebra. Students will solve one and two variable equations and inequalities, as well as systems of equations and inequalities. Students will focus on linear, quadratic, and exponential functions, stressing these skills in problem solving situations, as well as be introduced to piecewise, step, and absolute-value functions. Properties of exponents, polynomials, factoring, data analysis, and transformations of functions are also included.

Geometry

Grades 9-10

1.5 Required Credit

3 Trimesters

****A scientific calculator is recommended.**

This year long course focuses on the relationships among figures. Topics include angles and parallels, properties of quadrilaterals, congruent triangles, transformations and dilations, similar polygons, area and perimeter, volume and surface area, proofs, statistics, chords and segments in circles, right triangle, trigonometry, and geometric constructions.

Algebra II

Grade 11

1.5 Required Credits

3 Trimesters

**** A TI graphing calculator is necessary.**

This is a year-long class designed to study the different types of functions. Topics will include data and linear representations, numbers and functions, including quadratic, exponential, logarithmic, polynomial, rational, radical, and trigonometric functions, conic sections, sequences and series, and some basic probability and statistics. Students will use these functions to model real world problems and solve accordingly.

Trigonometry

Grades 11-12

0.5 Elective Credit

1 Trimester

Pre-requisite: Algebra II

**** A TI graphing calculator is necessary.**

Trigonometry is the study of the geometric properties of the angles and sides of triangles. Students will learn to interpret numerical information in table, graph, and equation formats. Topics include right triangle relationships, unit circle, trigonometric functions and their applications, and trigonometric identities.

Precalculus

Grades 11-12

0.5 Elective Credit

1 Trimester

Pre-requisite: Algebra II

**** A TI graphing calculator is necessary.**

This course is designed to strengthen your mathematical skills in preparation for a Calculus course. Students will learn to apply both algebraic and graphical techniques to solve application problems. Topics include solving equations, analyzing functions, using logarithms, and limits.

Statistics

Grades 11-12

0.5 Elective Credit

1 Trimester

****A TI graphing calculator is necessary.**

Statistics is the science of conducting studies to collect, organize, summarize, analyze, and draw conclusions from data. Students will learn to use statistical methods to make inferences from a set of data.

Probability

Grades 11-12

0.5 Elective Credit

1 Trimester

****A TI graphing calculator is necessary.**

Probability studies the methods and procedures used to draw inferences from numerical information and to determine the likelihood of an event occurring. Students will learn to use probability experiments, sample spaces, and rules of probability to solve a wide variety of real-world problems.

Personal Finance

Grades 11-12

0.5 Elective Credit

1 Trimester

****A scientific calculator is recommended.**

Students will understand the impact of individual choices on occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets, demonstrate knowledge of finance, debt, and credit management, and evaluate and understand insurance and taxes. This course will also provide students with the necessary math skills for making informed personal financial

decisions.

Advanced Placement Calculus

Grade 12

1.5 Elective Credit

3 Trimesters

Recommendations: At least a “C” in Trigonometry and Precalculus

****A TI Graphing Calculator is necessary.**

AP Calculus is an introductory college level course. Your experience in AP Calculus will be similar to that of a first semester college Calculus course. Calculus is primarily concerned with developing students’ understanding of the concepts of derivatives and integration used to solve practical applications. The course emphasizes a multi-representational approach to calculus concepts with results and problems being expressed geometrically, numerically, analytically, and verbally. The course is designed to help prepare you for the comprehensive AP Calculus test given in May, which could possibly earn you college credit.

OTHER

Test Prep

Grade 11

0.5 Required Credit

2nd Trimester Only

The objective of this class is to prepare students to perform to the best of their abilities on the state standardized tests. Students will spend 3 weeks reviewing writing and language, 3 weeks reviewing reading, and 6 weeks reviewing math with content specific teachers. Students will learn how the SAT test is set-up and strategies for taking a timed test. They will practice these strategies to ensure they are familiar with taking this style of test.

PHYSICAL EDUCATION

Beginning PE I

Grades 9-10-11-12

0.5 Required Credit

1 Trimester

The purpose of this course is to introduce students to sports, activities, and games, as well as strength training and personal fitness exercises that can be carried into a lifetime of health and fitness. Throughout this course, students will learn the basic rules, strategies and skills that will help them participate in these activities outside our class. Skills will be drilled and practiced before the actual games are played for every unit! Basic strength training skills and personal fitness activities will be taught to improve the student’s overall fitness and health. Students are expected to dress every day, participate and have a great attitude in class. The student’s participation, attitude, and effort toward daily activities will determine his/her grade for this course, along with physical and written tests which are taken to assess student’s knowledge and skills.

Advanced PE II

Grades 9-10-11-12 0.5 Elective Credit

1 Trimester

Pre-requisite: Beginning PE I

The purpose of this course is to build on the knowledge and skills learned in Beginning PE I, as well as other sports, activities, games, strength training and personal fitness exercises that can be carried into a lifetime of health and fitness. Throughout this course, students will learn advanced strategies and skills in activities covered in Beginning PE I. Advanced strength training skills and personal fitness activities will be taught to improve the student's overall fitness and health. Students are expected to dress every day, participate and have a great attitude in class. The student's participation, attitude and effort toward daily activities will determine his/her grade for this course, along with physical and written tests which are taken to assess student's knowledge and skills.

Dynamic Performance Training

Grades 10-11-12 0.5 Elective Credit

1 Trimester

Pre-requisite: Beginning PE I

Dynamic performance training will be individualized to meet the specific needs of each student. Each student will be on a workout plan that focuses on strength training and cardiovascular fitness, as well as dynamic core exercises, plyometric exercises, and circuit training. The instructor will assist the student in setting up a program that will help the student achieve his/her goals. Participation, attitude, and effort, along with physical tests, will determine a his/her grade for this course. Along with weight training and cardiovascular exercise, certain activities will be used throughout the trimester to promote fitness. Each student in this class will be expected to, on a daily basis, be ready to show up, work hard and make themselves better!

Competitive Team Sports

Grades 10-11-12 0.5 Elective Credit

1 Trimester

Pre-requisite: Beginning PE I

This course is meant to teach two important parts of a student's life along with promoting fitness and sport. In this course, teamwork will be stressed during each unit that will be presented. Being part of a team is something each student will do in their life, ranging from a job to a family. Competing is another key component of this course. Every unit will have drills and a competitive portion where groups and teams will compete against each other. Students will learn intermediate to advanced skills for the individual and for the team aspect. All skills and drills will be practiced before the actual playing of the game or sport. A student's participation, attitude, and effort, along with written tests over team rules and concepts taught in class, will determine his/her grade for this course. Students are expected to dress every day, participate and have a great attitude in class.

Yoga/Pilates

Grades 9-10-11-12 0.5 Elective Credit

1 Trimester

Pre-requisite: Beginning PE I

Yoga is an energetic, vigorous practice that blends sweat, strength and flexibility in a class that thoroughly tones the body and disciplines the mind. A series of yoga postures are done in sync with the breath, flowing from one movement into the next. The results include enhanced physical strength and endurance, improved flexibility, and a calm and focused mind. Along with strengthening the body and mind, this class will also offer a history of yoga and its five major principles.

Pilates is an exercise system that keeps the body balanced and is essential to provide support for the spine. “The Pilates Principles” assist in conditioning the entire body by focusing on: proper alignment, centering, concentration, control, precision, breathing, and flowing movement. In essence, Pilates teaches awareness of spinal alignment with deep core muscle recruitment, which is essential for a strong body, and improvement of athletic and physical performance.

SCIENCE

Biology A

Grade 9

0.5 Required Credit

1 Trimester

This course is designed to study life using a “hands on” approach. Several lab activities are done to reinforce certain concepts in the study of life. Biochemistry, organic compounds of life, cell structure & function, cell reproduction, respiration and photosynthesis will be covered in this course.

Biology B

Grade 9

0.5 Required Credit

1 Trimester

This course is an introduction to the study of genetics, natural selection and ecology. Human genetics, monohybrid, dihybrid crosses will be examined. Students will learn how genetic traits are passed on from generation to generation. Mutations will be discussed, and students will learn how these mutations affect natural selection. The concept of ecology, symbiosis, predation, populations, communities, biomes and ecosystems will be covered in this course.

Earth Science

Grade 9

0.5 Required Credit

1 Trimester

This course allows students to explore a variety of topics including Earth’s place in the universe, Earth’s systems, and Earth and human activity. Students should complete this course with a good understanding of the solar system, the universe and stars, the history of the planet Earth, plate tectonics and interactions, the role of water on Earth, weather and climate, and interactions between the Earth and humans in the form of natural

resources, natural hazards, human impact on Earth systems, and global climate change. Additional experiments, in-depth research and projects will be required throughout the course.

Advanced Placement Biology

Grades 11-12

1.5 Elective Credits

3 Trimesters

Recommendations: Biology & Chemistry with a grade of B or higher

AP Biology is an introductory college level course. By taking AP Biology, you will be taking a similar or even identical course to college students taking their first college level biology course (General or Introduction to Biology). In this course, you will explore several sub-fields in biology, and complete at least 8 labs to develop your understanding of biology. The goals of this course are designed to: 1) present an in-depth, college level study of the biological sciences, 2) help students develop college level critical thinking skills, writing skills, and study habits, and 3) help prepare you for the comprehensive AP Biology Exam given in May so that you may score a 3 or above, and earn college credits for this year of study and hard work.

Chemistry A

Grade 10

0.5 Required Credit

1 Trimester

Recommendations: At least a “C” in Biology and Algebra I. Teacher recommendations and students EDPs will also be considered.

This fast-paced, rigorous course is an in-depth study of the introductory topics in Chemistry including atomic theory, nuclear chemistry, the periodic table, and chemical bonding. During the hands-on lab component of the course, students will explore real world situations and analyze data.

Chemistry B

Grade 10

0.5 Required Credit

1 Trimester

This fast-paced, rigorous course is a continuation of Chemistry A. The introductory topics in Chemistry include chemical reactions, chemical quantities, stoichiometry and gas laws. During the hands-on lab component of the course, students will apply concepts to real world situations and analyze data.

Conceptual Chemistry A

Grade 10

0.5 Required Credit

1 Trimester

Conceptual Chemistry provides a conceptually-based exposure to the fundamental principles and processes of how chemistry applies to the real world. The clothes people wear, the food they eat, the medicine they take, fuel vehicles need and even the air that is breathed all have something to do with chemistry. This course will help students understand how chemistry is related to their everyday lives.

Conceptual Chemistry B

Grade 10

0.5 Required Credit

1 Trimester

A continuation of Conceptual Chemistry A, this course provides a conceptually-based exposure to the fundamental principles and processes of how chemistry applies to the real world. The clothes people wear, the food they eat, the medicine they take, fuel vehicles need and even the air that is breathed all have something to do with chemistry. This course will help students understand how chemistry is related to their everyday lives.

Chemistry IIA

Grades 11-12

0.5 Elective Credit

1 Trimester

Pre-requisite: Chemistry

This course is an extension of the first year of Chemistry with emphasis on topics such as molecular geometry, organic chemistry, solutions, and solubility. The hands-on lab component of the course provides opportunities to apply concepts and analyze data. This course emphasizes a greater depth and understanding of chemistry and will help prepare you for college chemistry.

Chemistry IIB

Grades 11-12

0.5 Elective Credit

1 Trimester

This course is a continuation of your study of Chemistry with emphasis on chemical reactions and their properties. Precipitation, oxidation-reduction, and acid-base reactions will be thoroughly studied. The hands-on lab component of the course provides opportunities to apply concepts and analyze data. This course emphasizes a greater depth and understanding of chemistry and will help prepare you for college chemistry.

Advanced Placement Chemistry

Grades 11-12

1.5 Elective Credits

3 Trimesters

Recommendations: Chemistry with a “B” or higher.

AP Chemistry is an introductory college level course. Your experience in AP Chemistry will be similar to that of a first semester college Chemistry course. AP Chemistry focuses on the depth of understanding of fundamentals and chemical problems. The lab component strives to provide experiences observing chemical reactions, recording data, interpreting results and communicating conclusions. The course is designed to help prepare you for the comprehensive AP Chemistry test given in May, which could possibly earn you college credit.

Physics A

Grades 11-12

0.5 Elective Credit

1 Trimester

Recommendations: At least a “C” in Chemistry and Algebra I. Teacher recommendations and student EDPs will also be considered.

This course is a comprehensive study of the topics of Physics. Units of study will include experimental design in Physics, descriptions of the motion of objects, force, linear/projectile motion (catapults), and momentum (collisions). This class will include numerous hands-on activities in the form of lab experiments, demonstrations, and real world problem solving activities relating to these topics.

Conceptual Physics

Grade 11

0.5 Required Credit

1 Trimester

Conceptual Physics provides a conceptually-based exposure to the fundamental principles and processes of the physical world. It will de-emphasize the mathematics, but not eliminate it. The course will provide studies in the following areas: motion and its causes, conservation laws, periodic motion, thermodynamics and heat theory, electricity, magnetism, and electromagnetic radiation, light and optics, and modern physics including fundamental particles.

Physics B

Grades 11-12

0.5 Elective Credit

1 Trimester

This course is a comprehensive study of the topics of Physics. Units of study in this portion of Physics will include energy transfer and uses, waves/sound, electromagnetic waves/light, electrical forces & interactions, and electric current. This class will include numerous hands-on activities in the form of lab experiments, demonstrations, and real world problem solving activities related to these topics.

Computer Science Discoveries

Grades 9-10

1.0 Elective

2 Trimesters

The course takes a wide lens on computer science by covering topics such as programming, physical computing, HTML/CSS, and data. The course inspires students as they build their own websites, apps, games, and physical computing devices. Computer Science Discoveries is an introductory computer science course that empowers students to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun.

AP Computer Science

Grades 10-12

1.5 Elective Credit

3 Trimesters

A rigorous entry level course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as

programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing.

Human Anatomy A

Grades 11-12

0.5 Elective Credit

1 Trimester

This course is designed for students with an interest in the medical field. In this portion of the course, a working vocabulary of anatomy will be established. An overview of the body's organ systems, what they do and how they work together will be learned. Muscle composition and function will also be covered in conjunction with a dissection of the dogfish shark.

Human Anatomy B

Grades 11-12

0.5 Elective Credit

1 Trimester

In the second portion of anatomy, time will be spent on the skeletal system, cardiovascular system, and the heart. Heart health and the personal decisions people make that effect the heart will be discussed. The digestive system and reproductive systems will also be studied. A dissection of a cat will complement these units.

Forensic Science

Grades 11-12

0.5 Elective Credit

1 Trimester

This elective course provides an introduction to the topics within the field of forensic science. Study includes the applications of concepts from the areas of biology/anatomy, chemistry, physics and geology to analyze and investigate evidence that may be discovered in a criminal investigation. Classroom activities include experiments, projects, case studies and the incorporation of technology.

Bioethics

Grades 11-12

0.5 Elective Credit

1 Trimester

This elective course is designed to increase science literacy, critical thinking, and problem solving skills. Students will be responsible for researching science topics that may be controversial in the real world and using this information to defend a side. Students will be expected to work in groups and be an active member of that group. Classroom activities will include presentations, daily participation, weekly papers, research projects, and in class debates. Students that want to continue to be challenged in science will find this course rewarding. Maturity, respect for others, attendance, and hard work will be expected. Students must have a 3.0 GPA to take this course. This is a one trimester course for juniors and seniors and is a college prep course.

Robotics A

Grades 9-12

0.5 Elective Credit

1 Trimester

Recommendations: Instructor approval

This course is primarily hands on approach to problem solving. In this first section of robotics the students will be presented with a series of tasks that they must solve working in small groups. This course relies heavily on the Science and Engineering approach from the Next Generation Science Standards. Students should leave the course with a better understanding of working as a team to problem solve. Prototyping, planning and budget analysis are the big ideas of Robotics A. Students that take Robotics A should plan on being a part of the Robotics team during 2nd Trimester.

Robotics B

Grades 9-12

0.5 Elective Credit

1 Trimester

Recommendations: Instructor approval

This course is primarily hands on approach to problem solving. In this second section of robotics the students will help to design and create a robot for the FIRST robotics competition. This course relies heavily on the Science and Engineering approach from the Next Generation Science Standards. Students should leave the course with a better understanding of working as a team to create a workable robot. Prototyping, planning, budget analysis and robot creation are the big ideas of Robotics B. Students that take Robotics B should plan on being a part of the Robotics team during 2nd Trimester.

AGRI-SCIENCE VOCATIONAL EDUCATIONAL PROGRAM

(Animal Science, Plant Science, Fisheries & Wildlife Management)

All Agri-science courses are lab oriented. In addition, all agri-science courses will have leadership and FFA activities as an integral part of their coursework.

Animal Science A

Grades 9-10-11-12

0.5 Elective Credit

1st Trimester Only

In this course, the six major nutrients used by all mammals will be discussed. The common feeds used to supply these nutrients will also be covered and ration balancing will be learned. To assist in the development of quality rations, groups will have their own chickens and participate in the State FFA Poultry Improvement Project held in conjunction with Michigan State University Animal Science Department. The final unit

will deal with animal digestion. Numerous dissections will be demonstrated to better visualize and master these concepts.

Animal Science B

Grades 9-10-11-12 0.5 Elective Credit 3rd Trimester Only

In the second portion of this course, students will explore the many facets of animal agriculture and production. Throughout both portions of the course, the important breeds of animals used in animal agriculture will be explored. Time will also be spent on leadership development and training for the State FFA Career Development Events on MSU Campus. (The Chesaning FFA has enjoyed many state winning teams in these competitions.) Additional units cover dairy, bacteria and cheese production, meat identification, breeding and reproduction.

Fisheries & Wildlife Management

Grades 9-10-11-12 0.5 Elective Credit 2nd Trimester Only

In this course students will study the ecosystems of North America, how man has impacted them over time and their current management practices. Students will also identify native and non-native species of wildlife and their habitats from Michigan and the surrounding areas.

Plant Science

Grades 9-10-11-12 0.5 Elective Credit 3rd Trimester Only

This course will begin by giving the student an understanding of basic botanical principles. Time will also be spent on the application and research of the following botanical principles: plant nutrition, physiology, genetics, development and diseases. Students will be responsible for the planning, planting, monitoring, transplanting of bedding plants and flowers grown in the greenhouse.

Agricultural Biology A & B

Grade 9

(the Biology of Animals, Plants, and Natural Resources)

Two courses – Agricultural Biology A and Agricultural Biology B

*Students must complete Ag Bio A and Ag Bio B to receive full Biology Credit

Agriculture Biology offers students the required biology credit for high school graduation. This course uses agriculture as the learning vehicle. The course emphasizes the principles, central concepts and interrelationships among the following topics: the molecular and cellular aspects of life, the chemical and structural basis of life, growth and reproduction in plants and animals, evolution of modern plants and domestic livestock species, plant and animal genetics, taxonomy of modern agricultural plants and animals, animal behavior, ecological relationships among plants, animals, humans and

the environment, nutrition in animals, health and diseases in animals, and the similarities between animals and humans. Students in this course will learn about the FFA and have a multitude of opportunities to become involved in the FFA which is the nation's largest youth leadership organization. This course serves as a prerequisite for all the other Agriscience courses offered.

Advanced Studies in Agriculture & Natural Resources(ANR) A & B **Grade 10**

Two Courses – Advanced Studies in Agriculture and Natural Resources A and Advanced Studies in Agriculture and Natural Resources B

*Students must complete ANR A and ANR B to move on to upper level Agriscience Courses

Advanced Studies in Agriculture and Natural Resources will provide students with the opportunity to explore topics in Domestic Animal Production, Animal Genetics and Reproduction, Soils and Plant Nutrition, Plant Culture and Propagation, and Agriculture Business and Marketing. Students will participate in the FFA Broiler Contest and will be raising and processing meat chickens in the first trimester. In the second trimester, students will be focusing on plant production and will be utilizing the greenhouse. Students will continue their membership and participation in the FFA. This course MUST be completed prior to student's enrollment in the upper level Agriscience courses.

Upper Level Agriscience Courses (11th and 12th grade students who have completed Agricultural Biology A and B along with Advanced Studies in Agriculture and Natural Resources A and B) Upper level courses are currently represented as 1 Trimester courses but could easily be expanded to encompass two trimesters with an A section and B section. Some upper level courses may be offered every other year.

Food Science

Grades 11-12

1 Trimester

Students will explore the food industry from perspectives such as processing, nutritional value, preservation, packaging, food safety, and careers. Instruction will emphasize an experiential approach toward the application of scientific principles in the food industry context. Students will work toward competition in the FFA Food Science competition. FFA membership is a required component of this course.

Floral Design

Grades 11-12

1 Trimester

Students will learn the basic principles of floral design. Students will be expected to learn the common and scientific names of common plant varieties along with the major principles and elements of design. Students will be creating floral pieces such as

centerpieces, bouquets, and corsages. A portfolio will be kept as evidence of the student's skills and abilities. Students will work toward competing in the FFA Floral Skills Competition. FFA membership is a required component of this course.

Small Animal Care and Management

Grades 11-12

1 Trimester

This course will focus on the general care and management of small and companion animal species including, but not limited to cats, dogs, and rabbits. Students will learn the anatomy and physiology of these species along with safe handling practices. Students will have the opportunity to work with live animals at various times in the course. FFA membership is a required component of this course.

Agriculture Issues and Communications

Grades 11-12

1 Trimester

Through this course, students will be introduced to current issues in the Agriculture and Natural Resources industry. Students will apply critical thinking and communication skills throughout this course as they research and present various aspects of the current issues. Students will be highly encouraged to compete in the Agriculture Issues FFA Leadership Competition. FFA membership is a required component of this course.

Agriculture Finance and Leadership

Grades 11-12

1 Trimester

This course is designed to provide students will the opportunity to gain basic knowledge in business management and marketing as well as further develop the leadership potential of students. Students will explore topics including financial management, decision making, marketing and sales in an agricultural context. Students will apply leadership and communication skills throughout this course. FFA membership is a required component of this course.

Veterinary Science

Grades 11-12

1 Trimester

The focus of this course is to develop students' knowledge and skills pertaining to the identification, nutrition, reproduction, health, diseases, veterinary science, care and management of large animal livestock species including cattle, sheep, swine and poultry. This class has a lab component which corresponds with topics covered in class. Classroom and animal laboratory activities are an integral part of this program. Students will work with animals during this course. FFA membership is a required component of this course.

Botany

Grades 11-12

1 Trimester

This course will focus on Horticulture and the importance of plants in our society. Students will learn a general overview of botany with plant anatomy, classification, and physiology. Students will also investigate propagation, plant nutrition, pathogens, and

pests. Students will be working with plants and soil in the greenhouse. Various methods of plant growth and production will also be explored. FFA membership is a required component of this course.

Agriculture Internship

Grades 11-12

1 Trimester

This course is designed to give students practical industry experience in an Agriculture Career. Internships can be paid or unpaid experiences and students must work with an adult. Students will keep accurate records of skills mastered and prepare a final report on their internship experiences. Students must also complete all required paperwork in a timely manner. This course is designed for seniors and students must have their own, reliable transportation.

Environmental Science

Grades 11-12

1 Trimester

Students will explore natural resources with studies in forestry, wildlife, water and land use, as well as examining the correlation between agricultural production and the environment. Students may have the opportunity to apply the knowledge and skills gained through this course in an FFA Skills Competition. FFA membership is a required component of this course.

SOCIAL STUDIES

United States History/ Geography

Grade 9

1.0 Required Credit

2 Trimesters

This two trimester course will introduce students to the study of modern American history. It begins with a review unit on the foundations of our society, and progresses through the 20th Century. The study of history and geography of the United States prepares us to take up the challenge of life in a democracy by building an understanding of the common and diverse strands that formed and continue to shape our present life and developing the habits of mind essential for democratic citizenship. Historical and geographic inquiry provides students with the kind of reasoned and informed decision making that should characterize each citizen's participation in our American democracy.

World History/Geography

Grade 10

1.0 Required Credit

2 Trimesters

This two trimester course will introduce students to the study of world civilizations. World History will cover events around the globe beginning around 500 AD and continuing through World War II and The Cold War. Countries and civilizations are studied, as well as the social development of various peoples, their philosophies, artistic, literary and scientific achievements. Integration of the geographic perspective, as well as historical decision and inquiry making will give the students the tools needed to analyze issues and problems.

Civics

Grade 11

0.5 Required Credit

1 Trimester

This one trimester course will instruct students in the foundational principles of American democracy. Students will analyze the birth of the republic, the roots and evolution of American democracy, and its current form. The structure and function of national, state, and local governments as enumerated by the Constitution will be studied in detail.

Economics

Grade 11

0.5 Required Credit

1 Trimester

Students will gain knowledge of both micro- and macro-economic theory and practice, which will prepare them to understand the economic forces which affect local, state, national and international systems. This will include analysis of supply, demand and the price system (a market economy), comparing and contrasting the world's economic systems, an inquiry into the role of the American government in the economy and an assessment of free trade and protectionism.

Contemporary American History

Grade 12

0.5 Required Credit

1 Trimester

To prepare students to be active citizens, students need to be able to analyze contemporary U.S. and global issues. In Contemporary American History, students will think critically about current issues affecting the United States and how past history has played a role. Students will offer up solutions on how the United States can respond to these current issues.

Sociology

Grades 11-12

0.5 Elective Credit

1 Trimester

Sociology is the in-depth study on the behavior of groups of people. Sociology examines the social lives of people, and compares behaviors of the past with what is happening now. Sociology deals with such aspects as cultural diversity, conformity,

adaptation, social structure, and personality influences, and how the behavioral patterns differ in the lives of different groups of people. The course makes comparisons of how adolescent behavior in society differs radically from adult behavior within varying cultures.

Deviant behavior, poverty, prejudice and discrimination are all part of the study, on minority groups within our culture. Gender is an issue that is reflected upon in the Sociological course study. It emphasizes the different perceptual contrast between how males and females view and enact differing group behavior patterns. The social institutions of family, education, religion, politics, and economic status are all aspects that Sociology touches upon in the daily lives of how people function, as a group in their behavioral responses.

Population and major demographic patterns, employment shifts, and global impacts are all reflected upon as we cover the nature of the Sociological group behavioral responses. Students are encouraged to invite guest speakers that come from a multitude of Sociological backgrounds. Research is encouraged in the form of group projects that students may have a particular interest in studying. These research projects are then presented to class, so that all students may benefit from the group projects. Sociology is in essence the study and research on how varying group cultural behavioral patterns affect real life, and how this impacts society and more specifically the individual.

Psychology

Grades 11-12

0.5 Elective Credit

1 Trimester

This is a college prep class introducing the science of Psychology. The students will learn the anatomy of the brain and how the brain effects learning, memory, development, sleep, and personality development. Students will have a better understanding of what is expected in a college introductory psychology course.

Child Development and Parenting

Grades 11-12

0.5 Elective Credit

1 Trimester

This course will explore how individuals and families develop and change across the life cycle. It is also a comprehensive course designed to help students understand child development from prenatal stages through school age years. In addition, it will explore parenting issues within each of those stages.

Humanities I: Pre-history through Middle Ages

Grades 11-12

0.5 Elective Credit

1 Trimester

This course is recommended for college bound students and is based on a survey of Western Civilization. Humanities I covers that major eras from Pre-History through the Reformation. The text is elevated and requires close reading. Evaluation will occur for

each era. A major portion of the class is devoted to individual projects based on any aspect of the Humanities: Art, Literature, Architecture, Philosophy, Political Systems, Religion, or any other area of the Humanities which has been given instructor approval. Each student will choose a focus and follow that area of interest throughout the historical eras discussed in the class. The student may expect to devote extended periods of time in both reading and preparation of their projects.

Explorations in Entrepreneurship

Grade 11-12

0.5 Elective Credit

1 Trimester

Explorations in Entrepreneurship will give students hands on experience developing a business concept. Students will identify a problem that a specific customer base faces and devise an economically viable business model to solve the problem. Through the development of their business concept students will learn to recognize and screen ideas, create a “business model canvas”, interview potential customers, write a unique value proposition, and determine whether or not their product will make a profit. In addition, students will learn to write business plans, devise marketing strategies, and handle day-to-day business concerns.

Basic Economics

Grade 11

0.5 Required Credit

1 Trimester

Students will gain knowledge of the basic concepts of micro- and macro-economic theory and practice. This will include an understanding of the world’s major economic systems, the price system (market economy), the national economy, and budgeting basics. This course will provide the student with a working knowledge of the United States and world economy and the ability to navigate the modern financial system.

History and Film

Grade 11-12

0.5 Elective Credit

1 Trimester

This course is designed for the student to develop their understanding of important and meaningful historical events, ideas and concepts. The student will watch movies that portray various time periods and philosophical ideologies. The general topics that will be covered include Ancient Greek philosophy, Ethics and Morality, the Cold War, Utopia and Distopia, Government, Oil, the Middle East, and the Human Condition. Students will be responsible for reading and interpreting challenging material that brings insight to the concepts covered by each film. Each unit will culminate in a written or oral presentation.

Michigan History

Grade 9-10-11-12

0.5 Elective Credit

1 Trimester

In this trimester course students will study Michigan History from early Native American tribes, early explorers and immigration to lumber and industry and the technological revolution. Michigan History will give students keen insight into how our state evolved into a state as diverse as its natural resources and people.

Information for Parents of Special Education Students

It will be important to keep in contact with your child's special education teacher regarding the progress of your child. At this time, all students must complete all courses outlined in the Michigan Merit Curriculum to receive a high school diploma. An Individual Education Plan (IEP) can provide accommodations that are outlined in the Michigan Merit Curriculum Guide on page 5. A student may need to take more than 4 years to complete required coursework for graduation, or seek a vocational certificate leading to a post-secondary program. Parents are strongly encouraged to attend IEP meetings and assist in the development of the Educational Development plan for their high school student. If you have any further questions regarding the high school graduation requirements, please make sure to contact your child's special education teacher.

SPECIAL EDUCATION

All classes in this department are offered by IEP only.

Math

Team Taught Algebra 1:

Grade 9 1.5 Required Credit 3 Trimesters
****A scientific calculator is recommended.**

This year-long course introduces students to expressions, equations, and operations in algebra. Students will solve one and two variable equations and inequalities, as well as systems of equations and inequalities. Students will focus on linear, quadratic, and exponential functions, stressing these skills in problem solving situations, as well as be introduced to piecewise, step, and absolute-value functions. Properties of exponents, polynomials, factoring, data analysis, and transformations of functions are also included. The highly-qualified general education teacher will provide curriculum instruction and a special education provider will provide accommodations and supports as necessary per the IEP.

Team Taught Geometry :

Grades 9-10 1.5 Required Credit 3 Trimesters
****A scientific calculator is recommended.**

This year long course focuses on the relationships among figures. Topics include angles and parallels, properties of quadrilaterals, congruent triangles, transformations and dilations, similar polygons, area and perimeter, volume and surface area, proofs,

statistics, chords and segments in circles, right triangle, trigonometry, and geometric constructions. The highly-qualified general education teacher will provide curriculum instruction and a special education provider will provide accommodations and supports as necessary per the IEP.

Team Taught Algebra II

Grade 11

1.5 Required Credits

3 Trimesters

**** A TI graphing calculator is necessary.**

This is a year-long class designed to study the different types of functions. Topics will include data and linear representations, numbers and functions, including quadratic, exponential, logarithmic, polynomial, rational, radical, and trigonometric functions, conic sections, sequences and series, and some basic probability and statistics. Students will use these functions to model real world problems and solve accordingly. The highly-qualified general education teacher will provide curriculum instruction and a special education provider will provide accommodations and supports as necessary per the IEP.

Language Arts

Academic Support:

This course is offered in accordance with a student's IEP. Study skills, transitional life skills, self-advocacy and learning strategies are central concepts addressed. Accommodations are typically provided during this course.

Transition to Work:

Recommendations: A work/study plan must have been completed

Students work at school, in sheltered work facilities, or on an approved job to receive credit, either during school, after school, or in the summer.

Reading

The emphasis of this course is the development and improvement of basic reading skills, as well as reading comprehension.

Functional Math:

This course will emphasize basic math skills with stress on the practical application of math in daily life.

Pre-Vocational Education:

Students will be exposed to those skills that will help to prepare them for entry into the work force. Extensive emphasis will be placed on organization, reading for directions, following directions, and interpersonal cooperation.

Home Living

This class will help students develop personal and social skills necessary for independent living.

SPECIAL PROGRAMS

Testing out of a Class

In accordance with PA 335, students are afforded the opportunity to test out for credit of courses in which they feel they have acquired the requisite knowledge and skills. Testing out is neither a correspondence course nor a distance learning opportunity; it is the student's demonstration that his/her acquired knowledge meets the state's and school's required standards for completion of the course in question. As a result, students will be provided with general information about the course's content, but they will not be given specific study materials prior to the examination. The testing-out process requires interested students to complete the following steps:

1. Meet eligibility requirements.
2. Submit application during announced application period.
3. Review course coverage/requirements/information from instructor or department.
4. Pass a comprehensive assessment as determined by the department.

Eligibility Requirements: Testing out of a course is not permitted if a student is currently enrolled in the course or if the student has previously failed the course. Students may not test out of AP Courses or any course which is lower in sequence than the course in which they are currently enrolled. Special education students may not test out of a course unless it is specified in the Individual Education Plan.

Application Process: Each year, Chesaning Union High School will announce the official application period for testing out and how students may obtain application forms. Currently there is a Spring Test Window Date. Applications will only be accepted during the official application period.

Course Information: Upon acceptance of their applications, students will be notified of the testing out process and date(s), provided the course learning objectives, and may be asked to complete a pre-assessment for screening purposes.

Testing Procedures: To successfully test out of a course, the applicant must complete a comprehensive assessment covering all course learning objectives. This may include multiple forms of assessment including, but not limited to, standard test questions (multiple choice, true/false, matching, identification, composition/essay) and/or other activities (paper, project, lab) determined by the department. A percentage score will be determined for each part of the assessment, and if multiple parts exist, the scores will be averaged to determine the final score; a final score of seventy-eight percent (78%) on the

comprehensive assessment is required to successfully test out of a course. Credit earned by testing out of a course will be recorded on the transcript as “P” (pass). “P” grades are not used in the computation of grade point average. Students will be notified of their standing regarding credit or no credit awarded after the testing out period is complete and prior to the end of May.

Dual Enrollment

Dual enrollment permits high school grade students to take classes in both the high school and a college or university simultaneously (counts as elective credit on high school transcript). The purpose of this program is to provide a wider variety of options to high school students who demonstrate their readiness for success in college coursework, as determined by CHS. Eligible students may take certain classes at colleges and universities essentially paid for with a percentage of their student’s state funding. Scores must be at an acceptable level on the **PSAT 10, PSAT, SAT, or ACT test, as well as meet other district and college/university guidelines (including college entrance exam), in order to be eligible for dual enrollment. Because CHS is on a trimester schedule, and most colleges/universities have semester schedules, dual enrollment must be a year-long commitment.** If students have questions regarding dual enrollment, they should meet with their counselor.

Enhanced Dual Enrollment

Enhanced dual enrollment permits high school grade students to take online classes in both the high school and Delta College simultaneously (counts as elective credit on high school transcript). The purpose of this program is to provide a wider variety of options to high school students who demonstrate their readiness for success in college coursework, as determined by CHS. Eligible students may take certain Delta College online courses, during school hours, while on CHS campus. These courses will be paid for with a percentage of the student’s state funding. Scores must be at an acceptable level on the PSAT 10, PSAT, SAT, or ACT test, as well as meet other district and college/university guidelines (including college entrance exam), in order to be eligible for dual enrollment. Because CHS is on a trimester schedule, and most colleges/universities have semester schedules, dual enrollment must be a year-long commitment. If students have questions regarding dual enrollment, they should meet with their counselor.

Work Experience

Grades 11-12 Elective

This program is designed to provide students with paid work experience through school sponsored and supervised employment situations. Students are allowed to earn academic credit while employed in the community. The employment serves as a means of acquiring desirable work habits and attitudes towards the world of work. The employment will be related to a student's career interest and they must take a class directly related to the work experience. Students interested in this program should see their counselor early in the semester prior to the semester they want to enroll. Insurance is needed by employers to cover workers while they are on the job.

Cosmetology

Grades 11-12 Elective

This is a 2-year vocational education program designed to train students for a career in cosmetology. It is not for students who want to explore this area. Students will attend Mane Street Academy from noon until 5:00 p.m. for 2 years and one summer. After successfully completing 1,500 hours of instruction, students will be ready to take their State Board of Cosmetology License Examination. Students interested in this program should see their counselor early in the spring trimester of their 10th grade year. Students must provide their own transportation.

Saginaw Career Complex

Grades 11-12 Elective

2 credits will be earned per semester (4 for the entire year)

The Saginaw Career Complex is located in Saginaw and provides vocational training in many different areas. Most classes are 2-1/2 hours long. Students will attend this complex in the morning and then 4th and 5th hours at CHS. For more information, students should see their counselor. Courses available include:

Arts and Communications

Graphic Arts

Business Services Technology

Business Management & Administration

Computer Technology & Networking

Game, Database & Web Design

Culinary & Hospitality Management

Education and Human Services

Careers in Education

Law, Public Safety & Security

Environmental Technologies

Animal and Veterinary Science

Health Services

Advanced Medical Careers

Advanced Nursing Occupations

Medical Careers

Nursing Occupations

Technical and Engineering Systems

Automotive Collision Repair & Refinishing

Automotive Technology

Building Construction

Engineering/Project Lead The Way
Welding/Pipefitting Technology
Computer Numeric Control

Edgenuity

Grades 9-10-11-12 Credit Recovery

This is a computer based educational program to help students recover credits. If you have any questions, see your counselor.

Edgenuity Elective Options

Art History
Computer Applications A - Office 2010
Computer Applications B - Office 2010
Digital Arts 1
Digital Arts 2
Earth Science A
Earth Science B
Engineering Design
Environmental Science A
Environmental Science B
Financial Math
Game Design
Human Geography A
Human Geography B
Introduction to Art
Introduction to Business
Introduction to Health Science
Introduction to Information Technology
Math Models with Applications
Medical Terminology
Nursing Assistant
Personal Finance
Pharmacy Technician
Psychology A
Psychology B
Sociology
Specialty Physics

Online Learning

Grades 9-10-11-12

Students wishing to take courses online need to speak to the counselor regarding qualifications and course offerings. CHS uses Michigan Virtual University and Edgenuity as its online course providers at this time. Current online legislation is adhered to with regards to online course enrollment.

COLLEGE ATHLETICS

****Sports in College:** If a student is considering participating in a sport at a Division I or Division II college after graduation from high school, there are some important requirements--especially in terms of high school course work--which you must meet. Talk with your counselor SOON about these requirements if you are an athlete who falls in the category. Schedules can only be changed if there is room in classes. Prospective college athletes must also register with the NCAA Clearinghouse during their senior year. To register log on to their web site at: www.naaclearinghouse.net. There is a fee to register so be sure to have credit card information available. Please see your counselor if you plan to participate in athletics in college.