



High School Course Selection Guide

Art

Business, Management, Marketing and Technology

English/Language Arts

Family and Consumer Science

Foreign Language

Industrial Technology

Mathematics

Music

Physical Education

School-to-Career

Science

Social Studies

Vocational Programs

ART

710 INTRODUCTION TO ART Grades: 9-12 Prerequisite: NONE

Course fee: \$5.00

Introduction to Art is open to any high school student 9-12. Students will learn to accurately recreate images from observation, as well as to create original works from their imagination. Two and three-dimensional media will be explored while students become familiar with various fields/careers in art. Composition and structure will be based on the understanding of and inclusion of the elements of art (line, shape, value, form, texture, color and depth). This class is a prerequisite for all other art classes. *Successful completion of this course will allow a student to earn .5 credits toward the 1 credit Visual/Performing & Applied Arts requirement of the Michigan Merit Curriculum.*

720 DRAWING & DESIGN Grades: 9-12 Prerequisite: Introduction to Art (B- or higher)

Course fee: TBD

The focus of this course is on the creation of two-dimensional art with relation to basic drawing and design concepts. A variety of media will be explored throughout the course including but not limited to graphite, colored pencil, charcoal, pastel, pen and ink. Work by artists past and present will be used to illuminate these areas of drawing and design. *Successful completion of this course will allow a student to earn .5 credits toward the 1 credit Visual/Performing & Applied Arts requirement of the Michigan Merit Curriculum.*

730 PAINTING Grades: 9-12 Prerequisite: Introduction to Art (B- or higher)

Course fee: TBD

This course will focus on color theory and basic painting terms and techniques in a variety of media including but not limited to tempera paint, watercolor paint, acrylic paint and mixed media. Artists through history will be presented in relation to painting to illuminate how others have solved similar problems. In this course students will practice using design principles in the creation of unified visual statements and they will learn to recognize, reflect and talk about technique, media, and the composition of various works of art. *Successful completion of this course will allow a student to earn .5 credits toward the 1 credit Visual/Performing & Applied Arts requirement of the Michigan Merit Curriculum.*

740 THREE-DIMENSIONAL DESIGN Grades: 9-12 Prerequisite: Introduction to Art (B- or higher)

Course fee: TBD

This course involves the design and creation of three-dimensional art in relation to pottery and sculpture. Students will be using plaster, mixed media, found objects, wire and much more. They will also learn the basic hand building techniques of clay as well as the glazing and finishing techniques that come along with such media. Artists through history will be presented in relation to sculpture and clay to further enhance the course. *Successful completion of this course will allow a student to earn .5 credits toward the 1 credit Visual/Performing & Applied Arts requirement of the Michigan Merit Curriculum.*

741 ADVANCED THREE-DIMENSIONAL DESIGN Grades: 9-12 Prerequisite: Introduction to Art (B- or higher) AND Three-Dimensional Design (B- or higher)

Course fee: TBD

Students continuing in 3-D design will have the opportunity to refine their technical skills, becoming proficient in this area of design. They will explore the pottery wheel, glaze applications and various surface treatments along with the stacking and loading of kilns. Personal experimentation is encouraged, allowing the student to start to identify and develop personal style while continuing to investigate answers for aesthetic presentation of form, function and design. *Successful completion of this course will allow a student to earn .5 credits toward the 1 credit Visual/Performing & Applied Arts requirement of the Michigan Merit Curriculum.*

745 ADVANCED DRAWING & DESIGN Grades: 9-12 Prerequisite: Introduction to Art (B- or higher) AND Drawing & Design (B- or higher)

Course fee: TBD

This course is an advanced class for those students who have a strong interest in improving their drawing skills, exploring new media and techniques, and developing a better understanding of visual art. Students will focus on strengthening the area of creativity and expression in composition through design, subject matter, and technique. Artists through art history will also be presented in relation to drawing and design to further enhance the overall effectiveness of the course. *Successful completion of this course will allow a student to earn .5 credits toward the 1 credit Visual/Performing & Applied Arts requirement of the Michigan Merit Curriculum.*

746 STUDIO ART Grades: 11-12 Prerequisite: Introduction to Art (B- or higher) AND one semester of each of the specialized media courses, or by instructor approval/invitation.

Course fee: TBD

In choosing Individual Studio Program the student takes on the role of a college art student. This freedom comes at the price of greater student responsibility. Students will need to be highly self-motivated while working closely with the teacher in the planning of their personal curriculum. They will “set their own path,” meet their own goals, and yet fulfill teacher expectations. Students should be

*Certification: This course will prepare students for Microsoft Office applications at proficient or expert levels.
Articulated Credit: College credit may be available through various colleges. See a business instructor for details.*

**642 BUSINESS MANAGEMENT AND Grades: 9-12 Prerequisite: BMA I A
ADMINISTRATION B (BMA I B)**

This course is an extension of the topics covered in BMA IA, focusing on the planning, organizing, directing and implementing the functions and processes of contemporary businesses and organizations. Specific components include management theory, human resources management and behavior, finance, accounting and other quantitative methods, purchasing and logistics, organization and production, business decision-making and utilizing technology at all levels.

*Certification: This course will prepare students for Microsoft Office applications at proficient or expert levels.
Articulated Credit: College credit may be available through various colleges. See a business instructor for details.*

**643 BUSINESS MANAGEMENT AND Grades: 9-12 Prerequisite: BMA I B
ADMINISTRATION ADVANCED A (BMA II A)**

This course builds on the skill and concepts taught in Business Administration and Management A and B. Skills and concepts taught include money management, financial analysis, advanced computer office applications, uses of handheld technology, multimedia, integrated applications and simulations, human resources, web page design and international business. This is a real world-training program allowing students to engage in a hands-on learning approach that is entirely integrated with technology and job shadowing opportunities.

**644 BUSINESS MANAGEMENT AND Grades: 9-12 Prerequisite: BMA II A
ADMINISTRATION ADVANCED B (BMA II B)**

This course is an extension of the skills and concepts taught in Business Management and Administration II A. Skills and concepts taught include money management, financial analysis, advanced computer office applications, uses of handheld technology, multimedia, integrated applications and simulations, human resources, web page design and international business. This is a real world-training program allowing students to engage in a hands-on learning approach that is entirely integrated with technology and job shadowing opportunities.

894 BROADCAST II Grades: 11-12 Prerequisite: Instructor Approval

This course is intended for advanced broadcast technology students. Students in this course are expected to have mastered the basic techniques of broadcast communication. This course is intended for those students who desire a less rigid journalistic approach and more of a creative approach to video production. Students are required to assist Introduction to Broadcast Technology students with video production. Students will begin to master professional videography techniques. Students will integrate professional-looking graphics, transitions and effects to edited video.

650 FOUNDATIONS OF PERSONAL FINANCE GRADES: 9-12

The goal of this class is to educate students on the sound principals of managing their money for life. Four units will be covered in this course including: Saving and Investing, Credit and Debt, Financial Responsibility and Money Management, and Insurance/Risk Management and Income/Careers. This curriculum provides the students with a solid foundation on which they can build their financial future. In addition, students can receive .5 "math related" credits that will apply toward the requirements of the Michigan Merit Curriculum.

ENGLISH/LANGUAGE ARTS

Note: "A" sections of a required English course must be successfully completed before a student may enroll in a "B" section of a course. Also, a student must pass both the "A" and "B" terms of a course before moving on to his/her next required English courses. A student may not take two required English courses in the same term.

**110 ENGLISH 9A Prerequisite: Must have passed English 9A prior
111 ENGLISH 9B to taking 9B**

This course will involve a heavy emphasis on the writing process. Students write several pieces, including daily journals, persuasive and descriptive essays, an original short story and responses to literature. A short research paper will be assigned. Grammar will be taught as a means to improve student writing. Vocabulary will be improved through word study. Literature will be taught thematically using

novels, short stories, poetry, drama, myths and legends and nonfiction. Speaking and listening will be enhanced through large and small group discussion, as well as individual and small group presentations. *Successful completion of these courses will earn a student 1 credit toward the 4 credit ELA requirement of the Michigan Merit Curriculum.*

120 **ENGLISH 10A**
121 **ENGLISH 10B**

Prerequisite: English 9A, 9B
A summer reading assignment is required for this course.

Students can expect to intensify their use of the writing process and to write a broad range of pieces. Narrative and expository writing will be emphasized culminating in a final research paper. Grammar will be taught as a means to improve student writing. In addition, this course is also a chronological study of American Literature focusing on major American authors, styles, forms, and ideas. Oral presentation skills will be emphasized. *Successful completion of these courses will earn a student 1 credit toward the 4 credit ELA requirement of the Michigan Merit Curriculum.*

124 **ENGLISH 11 A**
125 **ENGLISH 11 B**

Prerequisite: English 10A, 10B

A summer reading assignment is required for this course.

Students can expect to intensify their use of the writing process and to write a broad range of pieces. Persuasive, descriptive and expository writing will be emphasized along with the writing of a research paper. Grammar will be taught as a means to improve student writing. Preparation for the MME writing test will be a major focus and vocabulary skill development as a means of enhancing student writing will be emphasized. This course is a chronological study of British Literature focusing on major British authors, styles forms and ideas. Oral presentation skills will be emphasized. *Successful completion of these courses will earn a student 1 credit toward the 4 credit ELA requirement of the Michigan Merit Curriculum.*

130 **ADVANCED ENGLISH 11 A**
131 **ADVANCED ENGLISH 11 B**

Prerequisite: Teacher recommendation and grade of “B” or better in English 10 A, 10B

A summer reading assignment is required for this course.

Students can expect to intensify their use of the writing process and to write a broad range of pieces. Narrative and expository writing will be emphasized and the writing of a research paper. Grammar will be taught as a means to improve student writing. Preparation for the MME writing test will be a major focus and vocabulary skills as a means of enhancing student writing will be emphasized. This course is a chronological study of British Literature focusing on major British authors, styles forms and ideas. Oral presentation skills will be emphasized. *Successful completion of these courses will earn a student 1 credit toward the 4 credit ELA requirement of the Michigan Merit Curriculum.*

135 **ENGLISH 12 A**
136 **ENGLISH 12 B**

Prerequisite: English 11 A, 11 B

A summer reading assignment is required for this course.

Students can expect to intensify their use of the writing process and to write a broad range of pieces. Narrative, descriptive, persuasive and expository writing will be emphasized along with the writing of a research paper. Grammar will be taught as a means to improve student writing. This course will reinforce career related communication and the senior portfolio. Word study and grammar as they relate to student writing are also a part of this course. Various forms of both British and American literature will be read independently and discussed in class. Students will respond to the reading through written literary analysis and discussion. Oral presentation skills will be emphasized. *Successful completion of these courses will earn a student 1 credit toward the 4 credit ELA requirement of the Michigan Merit Curriculum.*

145 **ADVANCED ENGLISH 12 A**
146 **ADVANCED ENGLISH 12 B**

Prerequisite: Teacher recommendation and grade of “B” or better in Advanced English 11 A and B.

A summer reading assignment is required for this course.

Students can expect to intensify their use of the writing process and to write a broad range of pieces. Narrative, descriptive, persuasive and expository writing will be emphasized along with the writing of a research paper. Grammar will be taught as a means to improve student writing. This course will reinforce career related communication and the senior portfolio. Word study and grammar as they relate to student writing are also a part of this course. Various forms of both British and American literature will be read independently and discussed in class. Students will respond to the reading through written literary analysis and discussion. Oral presentation skills will be emphasized. *Successful completion of these courses will earn a student 1 credit toward the 4 credit ELA requirement of the Michigan Merit Curriculum.*

150 **ADVANCED PLACEMENT LITERATURE AND COMPOSITION (1.5 credits/full year class)**

Prerequisite: Grade of B or better in Advanced English 11 A & B or teacher approval.

A summer reading assignment is required for this course.

AP literature and composition can provide the student with college credit through the AP test. The course will include the study of literature and the art and craft of writing. Grading is on a 5.0 scale, if the student is earning a grade of B or better in the course. In order to take this class, a senior must have passed the ELA MME. The 5.0 scale also depends on the student taking the AP test.

This course will be offered during school years which begin with an *even* number.

178 CLASSICAL READING **Grades: 11-12** *Prerequisite:* Completion of English 9 and 10

Classical Reading is a course designed to broaden the knowledge and enjoyment of classic literature for both the college-bound student and the student who simply loves to read. In this course, each student is required to continually read novels/dramas from the provided list of authors and beyond. The goal of this course is to provide an opportunity for the student to broaden his/her knowledge of the literary world, both past and present. Students will be required to read a minimum of 40 pages per day. There is also a written component to the course.

180 CREATIVE WRITING: FICTION **Grades: 10-12**

Creative Writing: Fiction is designed as a workshop class for students who enjoy writing short stories. Students who desire more time for writing, and who want to improve their skills will certainly enjoy this course. The purpose of the course is to develop an awareness of the stages of the writing process and methods of progressing through them as well as the elements of good fiction writing. KC4 standards will be followed for writing, reading, listening and speaking. Students will generate a substantial amount of raw material in several genres such as historical fiction, fantasy fiction, etc. Students will polish a major writing project for each unit covered. They will practice constructively responding to pieces of writing, developing feedback skills through readings and practice. Students are required to present a final portfolio of collected works as a final project for the class.

This course will be offered during school years which begin with an *even* number.

181 CREATIVE WRITING: POETRY **Grades: 10-12**

Creative Writing: Poetry is designed as a workshop class for students who want to explore various types of writing poetry. The purpose of the course is to develop an awareness of the stages of the writing process as well as discovering and experimenting with a variety of poetic devices and styles. KC4 standards are followed for writing, reading, listening and speaking. Students will generate a substantial amount of raw writing in several genres from free verse to limericks. Students will polish a major writing project for each unit covered. They will practice constructively responding to pieces of writing, developing feedback skills through readings and practice. Students are required to present a final portfolio of collected works as a final project for the class.

This course will be offered during school years which begin with an *even* number.

184 FOLKLORE, MYTHS AND LEGENDS **Grades: 10-12** *Prerequisite:* Completion of English 9A & B

Folklore, myths and legends explores mythology from various cultures. Students will study gods, goddesses, heroes and heroines, and adventures galore! This course utilizes group creative projects to explore content. Students can expect to be involved in writing activities, note taking, individual and group oral presentations, and library research. Students will design and present an individual comprehensive final project.

893 INTRODUCTION TO 21st CENTURY JOURNALISM **Grades: 10-12**

In the ever-evolving technological world, nowhere is the change in time-tested techniques being transformed more dramatically than in the scope of journalism. The rise and demand for online news sources has made print journalism a costly technique of the past. Additionally, the realm of broadcast journalism is moving from strictly radio and television to the massive scope of the internet, allowing news to travel at an extremely rapid rate. Today, an ever-growing population of teenagers and adults alike are culling their daily information from blogs, vlogs, and specialized web-sources. Throughout this course, students will learn about the shift in modern media, investigate the future of journalism, and participate in their own form of 21st century journalism that will prepare them for the adapting world in which they live. The course will be taught in a computer lab, as students will learn to create, edit, and evaluate new forms of journalism that is unique to their own interests and ideas. This course does not involve the daily production of a school-wide news program, however, some basic elements and principles of creating a regularly scheduled broadcast will be covered.

This course will be offered during school years which begin with an *odd* number.

185 WOMEN WRITERS Grades: 11-12

Students will purchase “The House on Mango Street”

Women Writers is a course for students who enjoy reading and writing literary criticism. The course will focus on female authors of fiction and poetry. We will examine their work for themes, form, style, language and structure as well as focus on identity formation as it relates to gender, social class, intellect and societal expectations. The purpose of the course is to develop an awareness of the stages of the writing process and methods of progressing through them as well as the elements of literary criticism. KC4 standards will be followed for writing, reading, listening and speaking.

This course will be offered during school years which begin with an *odd* number.

186 21ST CENTURY SHAKESPEARE Grades: 11-12

Shakespeare’s collection of plays includes topics and themes that are both relevant and intriguing for today’s students, despite a four century lapse in their setting, language, and character. No author’s work has proven to be as easily adapted to fit a variety of eras, audiences, or mediums. Throughout this course, our goal will be to compare Shakespeare’s work from the 16th and 17th century to the modern adaptations of his work that appear today in film, fiction, and farce. Students will read traditional Shakespearian plays such as *The Taming of the Shrew* and *Macbeth*, will consider modern works of fiction such as *Rosencrantz and Guildenstern are Dead*, and will participate in the review and comparison of such films as *10 Things I Hate About You* and *Scotland, PA*. At the conclusion of the course, students will have a firm understanding of the qualities present in Shakespeare’s work that make his collection thought-provoking, talented, and timeless.

This course will be offered during school years which begin with an *odd* number.

187 MULTICULTURAL LITERATURE Grades: 10-12 *Prerequisite:* Completion of English 9A & B

This course is a study of literature written by, and expressing the perspectives of, writers from minority groups in the United States. The course includes readings by contemporary writers focusing on the experiences of African, Asian, Hispanic, and Native Americans through their essays, poetry, fiction, and drama. Successful completion of this course will enhance students’ ability to read, observe, and listen with comprehension and critical perception; interpret and synthesize information and ideas; communicate clearly, precisely, and in a well-organized manner.

FAMILY AND CONSUMER SCIENCES

661 FOODS & NUTRITION Grades: 9-12

Foods and Nutrition emphasizes physical fitness through the application of nutritional guidelines for food selection and meal planning. Students will prepare a variety of recipes demonstrating their ability to make nutritious food choices. Teamwork skills will be emphasized along with entry-level job skills for the food service industry.

668 HEALTH Grades: 9-12

In this one trimester class, students will learn health habits that are basic to survival and contribute to the total well being of individuals and families. Topics will include: the body systems, reproductive health, HIV/AIDS and other sexually transmitted infections, chronic health problems and disease prevention, nutrition, fitness, substance abuse, stress management, emotional and social health, consumer health skills, and health-related careers.

672 CONSUMER FINANCE Grades: 9-12

In this course students will develop skills to examine consumer behavior. Managing files, becoming an informed customer, obtaining purchasing power and analyzing their roles in the marketplace will be taught.

674 PARENTING Grades: 9-12 *Prerequisite:* None, but Family Living and/or Health is suggested.

In this course, students will study the responsibilities and rewards of parenting. Topics will include readiness for parenthood, effective parenting and techniques and healthy parent/child relationships. Experiences will be provided that promote supportive, and rewarding parent/child interactions with emphasis on skills to face the unique challenges that parents may encounter as they raise their children.

In this one trimester course, students will study the impact families have on the way we grow, develop and function as individuals. Topics will include: family structure, family life cycle, relationships, roles, and family events. Family Living students will learn about the rights and responsibilities of living in a family and society. This course will also help develop and expand communication skills.

FOREIGN LANGUAGE

190 SPANISH I A

Grades: 9-12

Prerequisite for Spanish IA: None

191 SPANISH I B

Prerequisite for Spanish IB: Spanish IA

Spanish I introduces students to skills such as listening, speaking, reading, and writing. Students are introduced to the present tense verb forms (regular and irregular verbs), and they develop speaking skills in this tense. A variety of classroom activities allow students to express themselves orally and through reading and writing. Typical cultural differences found throughout the Hispanic world are discussed. Students will learn basic vocabulary and sentence structure of the language.

192 SPANISH II A

Grades: 10-12

Prerequisite: Spanish I

193 SPANISH II B

Spanish II is designed to increase a student's fluency in speaking, listening, reading, and writing the language. This course will give students an in-depth study of more advanced verbal expressions and verb tenses. This course will also include a study of Spanish culture.

194 SPANISH III A

Grades: 11-12

Prerequisite: Spanish IIB

195 SPANISH III B

The third course of Spanish continues where the second leaves off. Students continue their cultural study by acquainting themselves with Spanish artists such as Picasso, El Greco, and Velazquez and their art forms. A further grammatical study includes the future, conditional, and subjunctive tenses. Attaining a higher level of oral and written communication skills while sharpening grammatical skills is a priority at this level. Also, a variety of literary works will be read (some in Spanish and some in English) which will give students a more thorough look at the cultures of each Hispanic country.

INDUSTRIAL TECHNOLOGY

682 WOODWORKING

Grades: 9-12

Course fee: TBD

Introduction to Woodworking is designed to introduce students to the concepts, practices, and terminology of basic woodworking. Students will be assigned projects that will incorporate all the essential woodworking skills. Projects are assigned that will incorporate all available machines in the shop. Students will be instructed on their safe operation and be expected to utilize them in the construction of the required projects. Employability skills, including working safely together in a team-oriented environment, will be stressed. Upon entering the class, activities for first year students will consist of one small and one medium project.

Advanced Woodworking students (*students who have completed one semester of Introduction to Woodworking*) will be intermixed with introductory students. Upon entering the class, an advanced class list will be created to allow for advanced woodworking credit. Advanced students will be expected to select and construct an individual project that has been approved by the parent(s) and instructor. The project must incorporate advanced woodworking skills and processes. Employability skills, including working safely together in a team oriented work environment, will be stressed and part of the evaluation process. All projects must be paid for in full before construction begins. *This course fulfills the (VPAA) requirement of the Michigan Merit Curriculum.*

685 INTRODUCTION TO COMPUTER AIDED DESIGN (CAD)

Grades: 9-12

The primary focus of Technical Design is to introduce the students to the basic fundamentals of drafting and design. The entire course will be focused on three primary areas:

- Isometric 3D
- Orthographic 3 view
- Dimensioning and Tolerance

Each of these areas will be introduced to students by means of lecture, demonstration, and followed by student application. Course work will consist of daily drawings to check for understanding, as well as self-generated drawings to prove competency of concept. Students

will utilize both the standard drafting board as well as the computer to generate required drawings. The majority of drawings will be completed on the computer utilizing AutoCad software. This course is strongly recommended for students interested in fields of Engineering and Architectural Design. *This course fulfills the (VPAA) requirement of the Michigan Merit Curriculum.*

689 **ADVANCED DESIGN**

Grades: 10-12

Prerequisite: Introduction to CAD

The primary focus of this course is to allow students the freedom to choose the direction they take based upon their interests. Once the class has established, the students will be allowed to choose one of the two content areas of interest: **Advanced Mechanical Design** or **Architectural Design**.

Advanced Mechanical Design: This class is designed for the student who is interested in total mechanical design process. Orthographic (3view) and Isometric (3D) drawings will become more difficult with the addition of section views and exploded working drawings. The final project will consist of a chess set that will be designed in CAD, created in woodshop, and chess pieces that are cut using CNC technology. This project will utilize all of the design components to prove student competence in all areas covered.

Architectural Design: The primary focus of this course is to introduce students to the basic fundamentals of Architectural Design. Students will be introduced to all phases of the construction process as well as drawing techniques. Each area of the house will be broken down into reading, writing, and drawing assignments to further student comprehension as well as check for understanding. Required Drawings:

- Detailed Cross Section
- Living Area (Living/Dining)
- Service Area (Garage/Utility/Kitchen)
- Sleeping Area (Bedrooms/Bathrooms/Storage)
- Foundation Generation
- Elevation Generation
- Complete Set of Working Drawings (Floor Plan, Foundation Plan, Elevations, Dimensioning)

At the conclusion of each section, students will complete computer generated drawings containing all the necessary information for future reference. The final drawing activity will consist of a complete set of house plans. The students will apply all newly acquired knowledge to complete a floor plan, foundation plan, four elevations, and detailed cross section. *This course fulfills the (VPAA) requirement of the Michigan Merit Curriculum.*

MATHEMATICS

215 **PRE-ALGEBRA A**
216 **PRE-ALGEBRA B**

Grades: 9-10

Prerequisite: Instructor recommendation

Pre-algebra involves simplifying elementary algebraic expressions, solving equations and inequalities, and some graphing. The transition from arithmetic to algebra is gradual, and each lesson includes practical application problems. This course integrates geometry, statistics, probability, and technology.

220 **ALGEBRA I A** **Grades: 9-10**
221 **ALGEBRA I B**

Prerequisite for IA: Successful completion of the previous math course.

Prerequisite for IB: C- or better in Algebra IA to advance to Algebra IB.

Algebra I covers algebraic concepts that include working with formulas, discussing unknowns in problems, graphing ideas, exponents, polynomials, systems of equations, the quadratic formula, and concepts in coordinate geometry. Algebra I integrates geometry, statistics, probability, and technology.

230 **GEOMETRY A**
231 **GEOMETRY B**

Grades: 9-12

Prerequisite: Successful completion of Algebra IB

Geometry class integrates algebra with geometry in two and three dimensions. Students will study drawing skills, properties, mathematical relationships, and proofs. Students use geometric ideas in practical situations and represent geometric concepts with coordinates, networks, or other diagrams.

245 **ALGEBRA II A** **Grades: 10-12**
246 **ALGEBRA II B (Formerly Advanced Algebra)**

Prerequisite: Successful completion of Geometry

Algebra II enhances the concepts learned in previous algebra courses. Topics include algebraic expressions and forms, linear forms, quadratic forms, powers, roots, and functions based on these concepts. Students will study logarithmic, polynomial, and other special functions for their abstract properties and as tools for modeling real-world situations. A TI-83 graphing calculator is highly recommended.

250 **PROBABILITY AND STATISTICS A** **Grades: 11-12** Prerequisite: Successful completion of Algebra II
251 **PROBABILITY AND STATISTICS B**

Probability and Statistics is a course designed to include organizing and graphing a data set, measures of central tendency, permutation, combinations, sample spaces, and other statistics. Graphing calculators are required for this course.

265 **ADVANCED PLACEMENT CALCULUS** **Grades: 12** Prerequisite: Successful completion of Trigonometry
(1.5 Credits – Full-Year Class)

Advanced placement calculus includes a brief review of functions, trigonometry, and geometry. The course will include finding derivatives of functions, applying the derivative, continuity, limits to the functions, definite integrals, and application of integration. Graphing calculators are required for this course. *Note: This is a full year class. Students should enroll for all three trimesters. Grading is on a 5.0 scale, if the student is earning a grade of B- or better in the course and has paid the test fee.*

266 **TRIGONOMETRY A** **Grades: 11-12** Prerequisite: Successful completion of Algebra II
267 **TRIGONOMETRY B**

Trigonometry includes a thorough study of trigonometry with circular functions and concludes with the study of right triangles and oblique triangles with practical applications. Graphing calculators are required for this course.

884 **ACADEMIC COLLEGIATE TRANSITIONS** (.5 Credits) **Grades: 11 (10th graders eligible with administrative Approval)**

Academic Collegiate Transitions is a 12-week course designed to assist students with A.C.T. preparation. Studies will focus on English, Mathematics and Science. Students will also work on test taking skills by completing practice problems in each area. Further, students will be exposed to various test taking strategies and will conduct a research of three colleges they are interested in attending.

MUSIC

750 **FRESHMAN BAND** **Grades: 9** (Trimester 2 only and must be taken in conjunction with course 755 1st and 3rd trimester) Prerequisite: Proficiency on a band instrument and/or approval of eighth grade band instructor.
Freshman Band is a 3 Trimester Course

Freshman concert band begins the high school band experience. Music will include standard concert band literature as well as contemporary music. Students will participate in MSBOA Band and Orchestra Festival as well as other concert competitions. Freshman band will help the growing musician with the transition to high school band. This is in conjunction with course 755 to maintain the full year commitment of band.

755 **VARSITY BAND** **Grades: 9 (Trimesters 1 & 3)** Prerequisite: 9th Grade Band or proficiency on a band instrument
Grades: 10-12 (Trimesters 1-3) with director approval. An audition may be necessary.
Band is a 3 Trimester Course

Varsity marching band includes marching season, and some concert season as well. Activities include marching at all home and play-off football games, pep bands, participation in parades and festivals, and several marching band competitions. Marching band has several out of school commitments at which attendance is mandatory.

Note: Summer band camp attendance is very strongly recommended. After marching season the focus of Varsity band is that of concert literature. Varsity concert band includes symphonic band, pep bands, jazz band (if not a class), and chamber ensembles. Activities include concerts, solo and ensemble festival, band and orchestra festival, clinics both in and out of school, band follies, and graduation activities. Varsity concert band has some out of school commitments. Registration for this course transforms these commitments into obligations. Band is a full year commitment.

*Successful completion of one year of band will allow students to waive their physical education graduation requirement of .5 credits. It will NOT replace the .5 credit for Health. The waiver must be approved by the band director at the beginning and end of the semester. The band director will hold waivers until the completion of the term when individual students will be responsible for delivering them to the guidance office to receive final waiver status.

760 **JAZZ BAND** **Grades: 9-12** Prerequisite: Enrolled in band and/or approved/auditioned by the director

Jazz band explores a wide range of jazz styles and jazz composers. Students will learn improvisational skills and acquire an understanding and appreciation of jazz.

764 **HIGH SCHOOL CHOIR** Grades: 9-12 Prerequisite: NONE

The major goal of this class is to develop the choir member who enjoys singing in a non-competitive manner. A short introductory audition will be required to allow instructor to evaluate voice.

765 **POPS ENSEMBLE** Grades: 9-12 Prerequisite: Two years in band or an 8-10 minute audition

The major goals of this class are to develop self-confidence vocally as well as individually, to perform extensively within the school system, community and elsewhere, to promote positive public relations for school and community, and to develop a physical coordination through choreography set to music. Note: This is a performing class.

771 **MUSIC THEORY I** Grades: 10-12 Prerequisite: Basic to intermediate knowledge of musical
772 **MUSIC THEORY II** (9th with teacher approval) terms, techniques and symbols.

Music theory, history and appreciation will help students acquire an understanding of beginning theory, learn about historical figures in music and explore different styles of music.

775 **MUSIC APPRECIATION** Grades: 9-12 Prerequisite: NONE

Music Appreciation will be a course that will take the learner on a broad journey through music. This class will incorporate lecture, listening and analysis of music and projects. This is a GENERAL music class and is a broad-based journey. You need not be a band or choir student to succeed at this course. All you need is a desire to learn more about music and ways to appreciate it throughout your life.

PHYSICAL EDUCATION

510 **GENERAL PE** Grades: 9-10 Prerequisite: NONE

Course Description: Course content will include rules & skills needed to play the games of flag football, soccer, speedball, softball basketball, volleyball, team handball, floor hockey. Theory & application of the principles involved in fitness & conditioning will be presented.

515 **PILATES** Grades: 9-12 Prerequisite: NONE

Course Description: Course content is designed for students to work towards personal improvement in the areas of physical fitness & nutrition. The class will present the practice & theory of body toning & improved physical conditioning based on individual needs & personal assessment.

520 **PHYSICAL FITNESS & WEIGHT TRAINING** Grades: 9-12 Prerequisite: NONE

Course Description: Course content will be two-fold. The course will cover the principles of physical fitness & nutrition. The course will cover weight-training principles for bodybuilding, strength and toning.

540 **ATHLETIC PERFORMANCE** Grades: 9-12 Prerequisite: Teacher Approval. Must be an Athlete.

Course Description: Major goal of the course will be to improve strength and agility of athletes. Class will include strict weight training and a variety of agility routines. Monthly testing will monitor progress.

550 **ADVANCED TEAM SPORTS** Grades: 11-12 Prerequisite: Teacher Approval

Course Description: Course content will include the rules & skills needed to play & officiate the games of basketball, volleyball, team handball, ultimate Frisbee and softball. Theory and application of the principles involved in fitness & conditioning will be presented.

Course Description: Course content will include the leisure time activities of basketball, bowling, table tennis, shuffleboard, volleyball, golf, flag football & Ultimate Frisbee. Rules & skills will be taught to enable the students to the basic knowledge & performance in these sports.

570 FOUNDATIONS OF PERSONAL FITNESS Grades: 9-12

This class is a dual approach to physical education. The students will learn about various health/fitness related topics while participating in class where they complete various workouts each week including physical fitness testing. Students will complete ten chapters in the "Foundations of Personal Fitness" text. This will include completing a chapter a week from the text including a quiz and a fitness test. Classroom time and workout/conditioning/lifting will be split evenly.

SCHOOL-TO-CAREER

883 COMMUNITY-AS-SCHOOL (CAS)
½ - 3 MAXIMUM PER SCHOOL YEARGrades: 11-12 Prerequisite: Instructor approval required through application and interview process.

Community-As-School (CAS) allows students to participate in a supervised work experience, either paid or unpaid, which will compliment his/her career pathway. Students who want to schedule CAS must follow the guidelines listed below:

- Internal unpaid school placements and external unpaid positions fall under the state guidelines and requirements for "unpaid trainees." Students may only schedule one unpaid trainee block per year (½ credit) unless the student obtains special permission from the CAS coordinator and/or principal. Such exceptions will be granted only for those students who can demonstrate a direct link between the position and their career pathway.
- "Paid trainees" may be released for up to two blocks each trimester in their junior and/or senior year to earn credit as they work. They can earn no more than a total of six credits for CAS in their combined junior/senior years.
- The law requires that both "unpaid trainees" and "paid trainees" have a current educational development plan (EDP) on file. Their job placement must relate to their EDP and the student must be taking a related class in all trimesters in which he/she is enrolled in a work-based learning course.

888 INTRODUCTION TO TEACHING II A
889 INTRODUCTION TO TEACHING II BGrades: 12 Prerequisite: Successful Completion of Intro. To Teaching A and Instructor Approval

This is a two-block course, which is a continuation of Intro. to Teaching A. The student intern will be placed in a classroom in the Belding School District and will explore, in depth, a career as a professional educator. *The student is responsible for his/her transportation if working in a placement other than the high school.*

- All employers of paid or unpaid trainees must meet all state requirements and the job placement must be approved by the CAS coordinator before the student can register for the course.

890 INTRODUCTION TO TEACHING I

Grades: 11-12 Prerequisite: Instructor Approval, Counselor/Teacher Recommendations

Introduction to teaching is designed to give students the opportunity to work with children and to experience the job responsibilities of a professional teacher. Students will work daily in classrooms throughout the Belding School District. *The student is responsible for his/her transportation if working in a placement other than the high school.*

426 **INTRODUCTION TO CHEMISTRY** **Grades: 10**

This course will cover the State Content Expectations for High School Chemistry. It is designed to investigate many concepts in chemistry. These include the properties of matter, elements, and chemical reactions. Students conduct laboratory experiments as they learn both concepts and lab skills. *Successful completion of this course will allow a student to earn .5 credits toward the 3 credit Science requirement of the Michigan Merit Curriculum.*

463 **INTRODUCTION TO PHYSICS** **Grades: 10**

This course will cover the State Content Expectations for High School Physics. Areas include metrics, motion, force, acceleration, power, heat, simple machines, waves, sound, light and optics. Electricity and magnetism are also included. Students engage in numerous laboratory experiments as well as projects. The basic skills in scientific mathematics are stressed. *Successful completion of this course will allow a student to earn .5 credits toward the 3 credit Science requirement of the Michigan Merit Curriculum.*

430 **ECOLOGY** **Grades: 9-12**

Ecology is a one trimester course. Students will study ecosystems and environmental management. Topics covered will be biomes, water quality, groundwater, air quality, soils, forestry, renewable resources and land use. Students may also work on the nature trail behind the school.

431 **BOTANY** **Grades: 10-12** **Prerequisite:** Passing grade in Biology

This course will provide students with theories and principles related to botany, the study of plants. This course will provide hands on learning of plant propagation, irrigation, fertilization, identification, and management of plants. Scientific methods and biological principles will be incorporated into agricultural practices. Topics include: plant classification, structure, function, and nutrition. The course is one trimester.

460 **ZOOLOGY** **Grades: 9-12**

Zoology is a one trimester course. Students will study the organization and development of living organisms using dogs, cats, horses, cattle, sheep and swine. Studies include domestic animals and production, genetics, nutrition and animal domestication. Students will study the role of the animal in society, its care, anatomy and physiology, breeds, reproduction, health care and impact on society.

440 **ANATOMY AND PHYSIOLOGY A** **Grades: 10-12** **Prerequisite:** Passing grade in Biology
441 **ANATOMY AND PHYSIOLOGY B**

Anatomy and physiology will be offered two trimesters each year. It will concentrate on the anatomy and physiology of mammals, with an emphasis on humans. A major portion of the course will involve the detailed dissection of a cat and subsequent drawings and examinations. Each of the major organ systems will be studied in detail. This course will prepare the student for a future in the biological sciences.

461 **VETERINARY SCIENCE** **Grades: 10-12** **Prerequisite:** Passing grade in Biology A and B

In this advanced animal science course, students will explore the field of veterinary medicine. Students will study the role of a veterinarian and veterinary technician in the diagnosis and treatment of animal diseases. Topics to be discussed include: veterinary terminology, anatomy and physiology, pathology, genetics, handling and restraint, and physical examinations along with common surgical skills. Students will engage in a variety of laboratory activities and will participate in shadowing and/or other school-to-work experiences. The course is one trimester.

465 **PHYSICS A** **Grades: 11** **Prerequisite:** Successful completion of Chemistry B and Geometry B

Physics is a very broad field of study that presents an organized way of modeling and interpreting nature. A great deal of emphasis is placed on mathematical problem solving of real world events. The areas to be covered will be: measurement, forces and motion, forms of energy, heat and thermodynamics. Successful completion of this course *may* allow a student to earn .5 credits toward the math requirements of the Michigan Merit curriculum, if not used to meet the 3-credit science requirement.

466 PHYSICS B**Grades: 11** *Prerequisite:* Successful completion of Physics A

Physics B is a continuation of the concepts learned in Physics A. The areas to be studied will be: waves, particles, light and sound, electricity, magnetism, and nuclear processes. Successful completion of this course *may* allow a student to earn .5 credits toward the math requirements of the Michigan Merit curriculum, if not used to meet the 3-credit science requirement.

467 EARTH SCIENCE**Grades: 10**

This required course will cover the State Content Expectations for High School Earth Science. It covers the areas of geology, atmosphere, oceanography, weather, climate, and the universe. The goal of this course is to provide students with the knowledge to understand how the oceans and atmosphere interact causing weather and how that changes over time.

470 ADVANCED PLACEMENT BIOLOGY **Grades: 11-12** *Prerequisite:* At least a B- in Biology and Chemistry

Advanced placement Biology is for juniors/seniors who want the opportunity to receive college credit for introductory college biology by taking the College Board Advanced Placement Test. Good to excellent scores on the College Board test will allow students to receive college credit at many colleges and universities. This course will include 10 required labs, the study of molecules and cells, heredity and evolution, and organisms and populations. This class is one full year (3 trimesters).

475 ROBOTICS ENGINEERING**Grades: 9-12***Prerequisite:* At least a C- in all math classes taken.

This course is an introductory course in general robotics. This course is open to all students and can be taken in the first trimester. Robotics is taught in a step-by-step fashion that assumes no prior knowledge of robotics by the student. Basic robotic concepts are introduced and immediately followed by an activity or project to reinforce the materials covered in the core lesson. Each section builds upon the knowledge gained in the previous sections. Lessons are presented on an electronic program called LearnMate which contains animations, interactive graphics as well as quizzes and tests. Participation in FIRST robotics in January through March reinforces and gives students the greatest hands-on application of these principles.

884 ACADEMIC COLLEGIATE TRANSITIONS (.5C credits) **Grades: 11** **10th graders eligible with administrative approval**

Academic Collegiate Transitions is a 12-week course designed to assist students with A.C.T. preparation. Studies will focus on English, Mathematics and Science. Students will also work on test taking skills by completing practice problems in each area. Further, students will be exposed to various test taking strategies and will conduct a research of three colleges they are interested in attending.

SOCIAL STUDIES

311 ECONOMICS (1 TRIMESTER)**Grades: 11**

The student will develop a better understanding of individual and household choices; business choices; the role of the government in the economy; the different economic systems of the world – including the United States; and how trade generates economic development. Students will also participate in a stock market simulation for the class. This class is required for graduation and designed for juniors. *Successful completion of this course will allow a student to earn .5 credits toward the 3 credit Social Studies requirement of the Michigan Merit Curriculum.*

310 GOVERNMENT (1TRIMESTER)**Grades: 11**

Government will examine how our government works and interacts with the citizens of the United States. The students will examine how our core democratic values and principles were involved in developing the Constitution, three branches of government and our Bill of Rights. The students will also develop an understanding of their role in how our government works. This class is required for graduation and designed for juniors. *Successful completion of this course will allow a student to earn .5 credits toward the 3 credit Social Studies requirement of the Michigan Merit Curriculum.*

315 **U.S. HISTORY A/ AGE OF EXPANSION THROUGH THE NEW DEAL** **Grades: 10** ***Prerequisite:*** Required class for all sophomores—this class should be taken before U.S. History: WWII Through Modern History

Students will examine American historical issues from the Age of Expansion through the New Deal. Topics to be covered are the Age of Expansion, Progressivism, WWI, the Roaring Twenties, and the New Deal. This class will involve a heavy emphasis on position papers, projects, group work, critical thinking activities, debates, text assignments, and discussion. At the end of the trimester, all students will be expected to complete a final exam that assesses what has been learned in this course. *Successful completion of this course will allow a student to earn .5 credits toward the 3 credit Social Studies requirement of the Michigan Merit Curriculum.*

316 **U.S. HISTORY B/ WORLD WAR II THROUGH MODERN AMERICAN HISTORY** **Grades: 10** ***Prerequisite:*** Required class for all sophomores – this class should be taken after U.S. History: Age of Expansion Through the New Deal.

Students will examine American historical issues from the Second World War through Modern American History. Topics to be covered are WWII, Civil Rights, The Cold War, the 1960's, and Modern American History. In addition, current events will be covered throughout the trimester. This class will include a heavy emphasis on position papers, projects, group work, critical thinking, and discussion. At the end of the trimester all students will be expected to complete a final exam that assesses what has been learned in this course. *Successful completion of this course will allow a student to earn .5 credits toward the 3 credit Social Studies requirement of the Michigan Merit Curriculum.*

320 **WORLD HISTORY A** **Grades: 9** ***Prerequisite:*** Required class for all freshman—this class should be taken before World History B

Students will examine world history from pre-history through the French Revolution with a focus on the relationships between world events, modern problems, geography and world religions. *Successful completion of this course will allow a student to earn .5 credits toward the 3 credit Social Studies requirement of the Michigan Merit Curriculum.*

321 **WORLD HISTORY B** **Grades: 9** ***Prerequisite:*** Required class for all freshman—this class should be taken after World History A

Students will continue with the study of history from a world perspective covering the eras of the Industrial Revolution through modern day. Students will also be required to analyze current events, geography and investigate and research the historical foundations of modern issues. *Successful completion of this course will allow a student to earn .5 credits toward the 3 credit Social Studies requirement of the Michigan Merit Curriculum.*

330 **CRIMINAL LAW** **Grades: 9-12**

Criminal Law I will introduce the student to our legal system. Topics to be covered include Introduction to Law, Nature and Causes of Crime, and the Criminal Justice System.

331 **CIVIL LAW** **Grades: 9-12**

Civil Law II will continue the study of our legal system. Topics to be covered will include Tort Law, Consumer and Housing Law, and Family Law.

335 **AP HISTORY** **Grades: 10-12** ***Prerequisite:*** Approval of most recent social studies teacher.
(1.5 Credits – Full-Year Class)

Advanced placement U.S. history is for students who want to receive credit for U.S. history and also be able to take the College Board Advanced Placement Test. Good to excellent scores on the College Board test will allow students to receive college credit for U.S. history introductory course work at many colleges and universities. Grading is on a 5.0 scale if the student is earning an 80% or better in the course and has paid the test fee.

345 **SOCIOLOGY (1TRIMESTER)** **Grades: 10-12** ***Prerequisite:*** NONE

Sociology will show how groups shape and influence their beliefs and behavior. To help students better understand the society in which they live, the following topics will be covered: significant historical contributors to the field of sociology, the scientific method, culture and subculture, social status and roles, how society reacts to racial, religious, and ethnic minorities, crime and punishment, and social problems. Students should be prepared to openly discuss issues affecting not only them but the society they are living in as well. This class is limited to sophomores, juniors and seniors only!

Psychology is the scientific study of human nature, behavior & mental processes in all of its complexity & contradictions. Students will gain practical information in how to deal with everyday life.

CAREER TECHNICAL EDUCATION PROGRAMS

BUILD-A-HOME (B-A-H)

Prerequisite: Woodworking course

800	B-A-H I	1st Year Students
801	B-A-H II	2nd Year Students
803	INTRO TO B-A-H	(1 block class)
804	ADVANCED B-A-H	(1 block class – 3rd term only)

The Building trades work site is a classroom away from school with all school policies and procedures in effect. Transportation is provided to and from the site. This course does require regular attendance, as it is a hands-on, learning experience. The student is to provide a hammer, tape measure, boots and proper work site clothing. Safety glasses, hard hats and all other equipment will be furnished. Hard hats and safety glasses must be worn, and proper safety is to be exercised at all times. The objective of this course is to give the students insight and hands-on training to prepare them for a career in the construction field and to make related home repairs for themselves and others.

842A	PLANT & ANIMAL SCIENCE	Grades: 11-12
842B		
842C		

The Plant/Animal Science program will prepare students for careers or further study in the areas of horticulture and animal science. The program will focus on areas of greenhouse plants, landscaping, pest control and turf in the area of horticulture. In the area of animal science, students will have the opportunity to explore the large animal industry in Michigan. The class will examine animal growth, body systems and management areas. Students will receive firsthand experience in production and marketing of agricultural products. Students will have the opportunity to experience modern technology in agriscience involving hydroponics and aquaculture. Students will also work on the development of personal and career skills.

822A	DENTAL OCCUPATIONS	Grades: 11-12
822B		
822C		

The dental occupations program is designed to expose students to the various career opportunities available in the dental field. Students have the opportunity to work in a clinical setting with local dentists and assist with the elementary school fluoride program. Upon completion of the program the student will have had training in the areas of chairside procedures, lab techniques, and office procedures. After completion of the program, students seek employment as assistant and may pursue an advanced degree in dental hygiene or dentistry.

834A	HEALTH OCCUPATIONS	Grades: 11-12
834B		
834C		

Health Occupations is designed to acquaint students with careers in the health fields, job needs, and employment skills, and to teach students basic medical assisting or nurse aide skills that will prepare them for employment or post secondary education. Students are provided with a combination of classroom, laboratory, and clinical observational and hands-on experiences in available health care facilities. Students are required to have a uniform to work in the laboratory. Students can find employment in hospitals, doctor's offices, and extended care facilities. Upon completion of the program, the student may be certificate eligible and can take the state clinical and written exams.

830A	CULINARY ARTS	Grades: 11-12
830B		
830C		

Culinary Arts is designed to acquaint the student with many occupations in the Food Service Industry. Students will gain knowledge and experience by working with food products in the area of baking, salad and garnishing, soups and salads, desserts and entrée items. This program operates the Class Act Restaurant giving students the opportunity to gain skills as a waiter/waitress, short order cook, host/hostess, and cashier.

810A

810B **AUTOMOTIVE TECHNOLOGY**

Grades: 11-12

810C

Eight areas of automotive specialization are covered. Electrical systems, heating and air conditioning, engine performance, and engine repair are presented one year. Front ends, brake system, automatic transmissions, and manual transmission are covered alternate years. During all areas of instruction, students will work on customer cars, gaining hands-on experience. Related classroom work in theory and the use of technical manuals is an important part of each area. Throughout the 2 year program, students have opportunities to take state certification examinations in any or all areas of specialization. Upon successful completion of the examination, the student becomes a certified auto mechanic in that specialization for the State of Michigan.

826A

826B **DIESEL/HEAVY EQUIPMENT**

Grades: 11-12

826C

This program deals with the service and repair of diesel and gasoline powered heavy equipment, highway trucks and agricultural equipment. Students will learn basic operating principles of all aspects of diesel and heavy equipment. These include tear down and reassembly of engines, transmissions, electrical components and many other system components.

838A

838B **MACHINE TOOL**

Grades: 11-12

838C

Machine Tool is a training program in applied knowledge. It uses industrial type machines such as drill presses, grinders, lathes, band saws, and milling machines to create useful items found in every day life. It also uses precision measuring tools along with blueprints to make items that are long lasting and of high quality. This program lets students/trainees rediscover and use what they already know from other classes and experiences. CAM is part of Machine Tool that stands for Computer Assisted Machining. In CAM, students learn how to take an idea and design and draw it on a computer, then program the computer to run a computer-operated machine. Jobs in the machine tool trade generally are classified as semi-skilled and skilled. Workers build, test, inspect, and operate machines and equipment.

844A

844B **CRIMINAL JUSTICE**

Grades: 11-12

844C

Heartlands Institute of Technology Criminal Justice program is designed to provide basic knowledge, skills and behaviors necessary for entry-level into law enforcement and other related positions in the criminal justice field.

Criminal Justice is a one year program where students develop personal skills such as character building, human relations, communications and physical conditioning. The program consists of 12 segments of instruction taught over 36 weeks. Law, ethics, investigations, patrol and police skills are examples of areas of focus the students will explore.

Students will complete college articulated academics in criminal justice and develop strategies to help ensure success at their next educational level.