



# High School Course Selection Guide

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2011-2012 School Year

A.C.T.

Art

Business, Management, Marketing and Technology

Career Technical Education Programs

English/Language Arts

Family and Consumer Science

Health

Industrial Arts

Mathematics

Music

Physical Education

School-to-Career

# Science

# Social Studies

# World Language

## GRADUATION REQUIREMENTS

### Class of 2012:

**\*\*Items in parenthesis = Michigan Merit Standard\*\***

English 4

Math 4 (Alg 1 / Geom 1 / Alg II 1 / Sr. Year)

Social Studies 3 (World 1 / US 1 / Gov .5 / Econ .5)

Science 3 (Bio 1 / Chem or Physics 1 / 3rd Credit)

Earth Science .5

Phys Ed .5

Health .5

BMA I A .5 or BMS Competency

A.C.T. .5

Visual, Perform., Applied Arts 1

Electives **12.5**

Recommended Elective: World Lang 2

**TOTAL CREDITS = 27.5/30**

### Class of 2013:

**\*\*Items in parenthesis = Michigan Merit Standard\*\***

English 4

Math 4 (Alg 1 / Geom 1 / Alg II 1 / Sr. Year)

Social Studies 3 (World 1 / US 1 / Gov .5 / Econ .5)

Science 3 (Bio 1 / Chem or Physics 1 / 3rd Credit)

Phys Ed .5

Health .5

BMA I A .5 or BMS Competency

A.C.T. .5

Visual, Perform., Applied Arts 1

Electives **13.0**

Recommended Elective: World Lang 2

**TOTAL CREDITS = 27.5/30**

### Class of 2014:

**\*\*Items in parenthesis = Michigan Merit Standard\*\***

English 4

Math 4 (Alg 1 / Geom 1 / Alg II 1 / Sr. Year)

Social Studies 3 (World 1 / US 1 / Gov .5 / Econ .5)

Science 3 (Bio 1 / Chem or Physics 1 / 3rd Credit)

Phys Ed .5

Health .5

BMA I A .5 or BMS Competency

A.C.T. .5

Visual, Perform., Applied Arts 1

Electives **13.0**

Recommended Elective: World Lang 2

**TOTAL CREDITS = 27.5/30**

### Class of 2015:

**\*\*Items in parenthesis = Michigan Merit Standard\*\***

English 4

Math 4 (Alg 1 / Geom 1 / Alg II 1 / Sr. Year)

Social Studies 3 (World 1 / US 1 / Gov .5 / Econ .5)

Science 3 (Bio 1 / Chem or Physics 1 / 3rd Credit)

Phys Ed .5

Health .5

BMA I A .5 or BMS Competency

A.C.T. .5

Visual, Perform., Applied Arts 1

Electives **13.0**

Recommended Elective: World Lang 2

**TOTAL CREDITS = 27.5/30**

## VPA=Visual, Performing, Applied Arts Requirement

### A.C.T.

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#### 884 ACADEMIC COLLEGIATE TRANSITIONS

Grades: 11 (10<sup>th</sup> graders eligible with administrative approval)

Fulfills: A.C.T. requirement

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.

### ART

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#### 710 INTRODUCTION TO ART

Grades: 9-12 Prerequisite: NONE

Fulfills: VPA or General elective

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. This course will follow the elements of art (line, shape, value, form, texture, color and depth). We will work in various media such as: clay, wire, charcoal, colored pencil, and graphite. This class is a prerequisite for all other art classes.

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#### 720 DRAWING & DESIGN

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

Fulfills: VPA or General elective

Course fee: \$5.00

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.

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#### 730 PAINTING

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

Fulfills: VPA or General elective

Course fee: Students purchase own acrylic paint set (list given at start of trimester)

This course will focus on color theory and basic painting terms and techniques in a variety of media including but not limited to 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.

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#### 735 INTERIOR DESIGN

Grades: 10-12 Prerequisite: Introduction to Art (B- or higher)

Fulfills: VPA or General Elective

Course fee: TBD

Interior Design is the study of the Principles of Design as they relate to planning the interior space of homes or businesses. Topics include, but are not limited to, creating ambiance, using color, designing floor plans, arranging furniture, window treatments, walls, ceiling, floors and lighting.

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#### 740 THREE-DIMENSIONAL DESIGN

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

Fulfills: VPA or General elective

Course fee: \$7.00

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.

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**  
**Fulfills: VPA or General elective**

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.

745    **ADVANCED DRAWING & DESIGN**    **Grades: 9-12**    *Prerequisite:* Introduction to Art (B- or higher) AND Drawing & Design (B- or higher)    **Course fee: TBD**  
**Fulfills: VPA or General Elective**

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.

746    **STUDIO ART**    **Grades: 11-12**    *Prerequisite:* Introduction to Art (B- or higher) AND one trimester of each of the specialized media courses, or by instructor approval/invitation.    **Course fee: TBD**  
**Fulfills: VPA or General elective**

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 determine their own project path in accordance with broad topics. Students should be concerned with growth and style development.

747    **ART PORTFOLIO**    **Grades: 12**    *Prerequisite:* "A" average in all previous art courses and/or instructor approval.    **Course fee: TBD**  
**Fulfills: VPA or General elective**

This course is designed for seniors who are college bound with plans to major in art. Student artists should plan to follow the portfolio requirements set by the college of their choice. They should create new pieces, refine past pieces and be prepared at the end of the semester to present their entrance portfolio.

749    **ADVANCED PAINTING**    **Grades: 9-12**    *Prerequisite:* Introduction to Art (B- or higher) AND Painting (B- or higher)    **Course fee: Students purchase own set of oil paints (list given at start of trimester)**  
**Fulfills: VPA or General elective**

This course is an advanced class for those students who have a strong interest in improving their painting skills, exploring new techniques, and developing a better understanding of visual art and art history as related to painting. Students will learn how to stretch and prepare their own canvas from scratch, work with oil paints, egg tempera and fresco. Experimentation is encouraged allowing students to define a personal response to color, style and statement.

## BUSINESS, MANAGEMENT, MARKETING AND TECHNOLOGY

616    **COMPUTERIZED ACCOUNTING I A**    **Grades: 9-12**    *Prerequisite:* BMA I A  
**Fulfills: Business elective, or potential 4<sup>th</sup> Math credit -See Counselor**

This course is a part of an accounting program that prepares students for a variety of careers in the accounting field. Students develop skills to systematically record and summarize financial transactions for service businesses and merchandizing businesses. They process

financial information both manually and with the use of computer software focusing on sole proprietorship accounting principles and partnership accounting principles. Computer applications include word processing, spreadsheets, and databases. Accounting and employability skills are applied in business setting simulations and job shadowing opportunities. In addition, students can receive .5 “math related” credits that will apply toward the requirements of the Michigan Merit Curriculum. **Articulated Credit: College credit may be available through various colleges. See a business instructor for details.**

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617 **COMPUTERIZED ACCOUNTING I B** Grades: 9-12 **Prerequisite:** COMPUTERIZED ACCOUNTING I A

**Fulfills: Business elective or potential 4<sup>th</sup> Math credit-See Counselor**

This course is a part of an accounting program that prepares students for a variety of careers in the accounting field. Students develop skills to systematically record and summarize financial transactions for service businesses and merchandizing businesses. They process financial information both manually and with the use of computer software focusing on sole proprietorship accounting principles and partnership accounting principles. Computer applications include word processing, spreadsheets, and databases. Accounting and employability skills are applied in business setting simulations and job shadowing opportunities. In addition, students can receive .5 “math related” credits that will apply toward the requirements of the Michigan Merit Curriculum.

*Articulated Credit: College credit may be available through various colleges. See a business instructor for details.*

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618 **COMPUTERIZED II A** Grades: 10-12 **Prerequisite:** COMPUTERIZED ACCOUNTING I A, B

**Fulfills: Business elective or potential 4<sup>th</sup> Math credit-See Counselor**

This course is a part of an accounting program that prepares students for a variety of careers in the accounting field. The topics covered in this class are Accounting for a Merchandising Business Organized as a Corporation. In addition, accounting for Adjustments and Valuation will be covered in detail; Accounting procedures for Partnerships; and recording international and internet sales will be covered. Accounting and employability skills are applied in business setting simulations and job shadowing opportunities. Students who are interested in a business career are encouraged to take this course. In addition, students can receive .5 “math related” credits that will apply toward the requirements of the Michigan Merit Curriculum.

*Articulated Credit: College credit may be available through various colleges. See a business instructor for details.*

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631 **PHOTOJOURNALISM (FORMERLY YEARBOOK)** Grades: 9-12 **Prerequisite:** Students must complete an application. Instructor approval required.

**Fulfills: VPA or Business elective**

Students will explore and develop the skills necessary to create an award-winning graphic design project. Students are exposed to all phases of production including advertising, sales, marketing and public relations strategies. After students have had the opportunity to explore all of the phases of production, students apply for positions in an area of their choice. Outstanding students who have demonstrated leadership skills will be promoted to editorial positions and will then be responsible for enforcing deadlines and managing production.

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641 **BUSINESS MANAGEMENT AND ADMINISTRATION A (BMA I A)** Grades: 9-12 **Prerequisite:** None

**Fulfills: Tech Literacy and Business elective**

This course focuses 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 and business decision-making 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.*

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

**Fulfills: Business elective**

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.*

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

**Fulfills: Business elective**

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.

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

**Fulfills: Business elective**

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.

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650 **FOUNDATIONS OF PERSONAL FINANCE** **GRADES: 9-12**

**Fulfills: General Elective or Business elective or potential 4<sup>th</sup> math credit-see Counselor**

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.

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894 **I-MAC APPLICATIONS**

**GRADES: 9-12** **9<sup>th</sup> Grade Prerequisite: 8<sup>th</sup> Grade Broadcasting**  
**10<sup>th</sup>-12<sup>th</sup> Grade Prerequisite: None**

**Fulfills: VPA or Business elective**

This course is designed for students who desire a creative approach to video production and broadcast journalism. Students in the class will work together to produce daily video announcements and special features that will be broadcast in the school. Students will begin to master professional videography techniques by integrating professional-looking graphics, transitions and special effects to edited video. Students will also learn and study public speaking skills that are needed for broadcast journalism. This course will be taught in computer lab with the Macintosh format.

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## 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.

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110 **ENGLISH 9A**

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

111 **ENGLISH 9B**

**Fulfills: English 9 requirement**

*A summer reading assignment is required for this course.*

This course will involve a heavy emphasis on the writing process. Students write several pieces, including daily journals, persuasive and descriptive essays, a personal narrative 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.

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120 **ENGLISH 10A** ***Prerequisite:*** English 9A, 9B  
121 **ENGLISH 10B**

**Fulfills: English 10 requirement**

*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 and literary criticism writing will be emphasized in addition to the completion of a research paper. Grammar will be taught as a means to improve student writing. In addition, this course is also a study of American Literature focusing on major American authors, styles, forms and ideas. Oral presentation skills will also be introduced. Vocabulary development will continue with the addition of literary terminology.

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124 **ENGLISH 11 A** ***Prerequisite:*** English 10A, 10B  
125 **ENGLISH 11 B**

**Fulfills: English 11 requirement**

*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 and literary criticism 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. Vocabulary skills and literary term usage and application will continue as a means of enhancing student writing. This course is a chronological study of British Literature focusing on major British authors, styles, forms and ideas.

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130 **ADVANCED ENGLISH 11 A** ***Prerequisite:*** Teacher recommendation and grade of “B” or better in  
131 **ADVANCED ENGLISH 11 B** English 10A, 10B

**Fulfills: English 11 requirement**

*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 writing and literary criticism 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. Vocabulary skills and literary term usage 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. This course will function at an accelerated pace with an additional piece of required literature and grammar study.

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135 **ENGLISH 12 A** ***Prerequisite:*** English 11A, 11B  
136 **ENGLISH 12 B**

**Fulfills: English 12 requirement**

*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 writing and literary criticism 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. A major emphasis will be on non-fiction reading. Students will respond to the reading through written literary analysis and discussion.

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145 **ADVANCED ENGLISH 12 A** ***Prerequisite:*** Teacher recommendation and grade of “B” or better in  
146 **ADVANCED ENGLISH 12 B** Advanced English 11 A and B.

**Fulfills: English 12 requirement**

*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 and literary criticism 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. A major emphasis will be on non-fiction reading. Students will respond to the reading through written literary analysis and discussion.

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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.

**Fulfills: English 12 requirement**

*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. The 5.0 scale also depends on the student taking the AP test.

## ELA ELECTIVES

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101	<b>INTRODUCTION TO HIGH SCHOOL ENGLISH LANGUAGE ARTS</b>	<b>Grades: 9-10</b>	<b><u>Prerequisite:</u></b> Teacher recommendation
	<b>Fulfills: English elective</b>		

This course is designed for students who need support in reading comprehension and vocabulary development. Emphasis is on reading informational material and using context clues to determine the meaning of unfamiliar words. Additionally students will work on reading independently and comprehending beyond the literal level using meta-cognitive reading strategies.

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155	<b>DRAMA I</b>	<b>Grades: 9-12</b>	
	<b>Fulfills: VPA or English elective</b>		

Drama I is primarily a performance-oriented course. It is designed for students interested in learning about acting. Students will study the basic elements involved in acting and will participate in pantomime, improvisation, oral interpretation, voice development, and memorized scenes. Students will be encouraged to develop their acting skills during group and solo activities. Primary emphasis will be placed on auditioning skills for beginning actors/actresses.

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156	<b>DRAMA II</b>	<b>Grades: 9-12</b>	<b><u>Prerequisite:</u></b> Drama I
	<b>Fulfills: VPA or English elective</b>		

Drama II is designed to allow students to do intensive work in the area of acting for those interested in becoming involved in acting either through the high school drama club, community theatre, or other opportunities. It will involve extensive training and continual performance. Some film study will be completed and acting philosophies will be included.

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

160	<b>ENGLISH ARGUMENTATION</b>	<b>Grades: 10-12</b>	<b><u>Prerequisite:</u></b> Signature of most recent English teacher, 'C' average or better in English.
	<b>Fulfills: VPA or English elective</b>		

Debate offers training in the analysis, research, organization, and delivery of a formal argument. Furthermore, students will be given the opportunity to participate in team debates after carefully researching the issue or topic in the media center. Students will study the fundamentals of reasoning, voice, delivery, and parliamentary procedure.

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165	<b>ENGLISH PERFORMANCE</b>	<b>Grades: 9-12</b>	
	<b>Fulfills: VPA or English elective</b>		

This course is designed for students who will develop their oral presentation skills through preparation for a variety of performance events. Students will focus on developing the following presentations: original short story, poetry, duo, multiple, storytelling and impromptu. English Performance is designed to provide interested students with opportunities to develop speaking skills, and foster individual creativity and self discipline.

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

178	<b>CLASSICAL READING</b>	<b>Grades: 11-12</b>	<b><u>Prerequisite:</u></b> Completion of English 9 and 10
	<b>Fulfills: English elective</b>		

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.

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180 **CREATIVE WRITING** Grades: 11-12

Fulfills: English elective

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. 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.

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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

Fulfills: English elective

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.

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185 **WOMEN WRITERS** Grades: 11-12 *Prerequisite:* Nominal Fee (\$15.00 or less)

Fulfills: English elective

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.

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

186 **21<sup>ST</sup> CENTURY SHAKESPEARE** Grades: 11-12

Fulfills: English elective

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 16<sup>th</sup> and 17<sup>th</sup> 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.

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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

Fulfills: English elective

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**

**Fulfills: VPA or General elective**

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.

672 **CONSUMER FINANCE** **Grades: 9-12**

**Fulfills: General elective**

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.

**Fulfills: General elective**

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.

675 **FAMILY LIVING** **Grades: 9-12**

**Fulfills: General elective**

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.

## Health

668 **HEALTH** **Grades: 9-12**

**Fulfills: Health requirement**

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.

671 **FOUNDATIONS OF PERSONAL FITNESS** **Grades: 9-12**

**Fulfills: General Elective**

This class is a dual approach to physical education and health education. The students will learn about various health/fitness related topics while participating in the gymnasium and weight room where they will complete various workouts. In addition, students will complete four chapters in the Foundations of Personal Fitness textbook in the classroom, which will include quizzes and a final exam.

# INDUSTRIAL ARTS

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## 682 WOODWORKING

Grades: 9-12

Fulfills: VPA or General elective

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 assigned 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. Final projects will be completed by grouping 2 or 3 students together giving them the experience of working as a team. These final projects consisting of chests and cabinets will be sold to the community.

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## 692 ADVANCED WOODWORKING

Grades: 9-12

Prerequisite: Introduction to Woodworking

Fulfills: VPA or General elective

Course fee: TBD

*Advanced Woodworking* is designed to allow interested students the opportunity to construct larger projects that incorporates all woodworking skills developed in the Introduction to Woodworking class. 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. Projects can be assigned to students who need something to construct.

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## 685 INTRODUCTION TO COMPUTER AIDED DESIGN (CAD)

Grades: 9-12

Fulfills: VPA or General elective

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.

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## 689 ADVANCED DESIGN

Grades: 10-12

Prerequisite: Introduction to CAD

Fulfills: VPA or General elective

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.

# MATHEMATICS

220 **ALGEBRA I A**                      **Grades: 9**                      Prerequisite for IA: Successful completion of the previous math course.  
 221 **ALGEBRA I B**                      Prerequisite for IB: C- or better in Algebra IA to advance to Algebra IB.

**Fulfills: Algebra I requirement**

This course is completed over 2 trimesters. 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.

222 **ALGEBRA I X**                      **Grades: 9**                      Prerequisite: Successful completion of the previous math course.  
 223 **ALGEBRA I Y**  
 224 **ALGEBRA I Z**

(1.5 Credits – Full-Year Class)  
**Fulfills: Algebra I requirement**

This course is a full year course completed over 3 trimesters. 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**                      **Grades: 9-10**                      Prerequisite: Successful completion of Algebra I with C- or better.  
 231 **GEOMETRY B**

**Fulfills: Geometry requirement**

This course is completed over 2 trimesters. 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.

232 **GEOMETRY X**                      **Grades: 9-10**                      Prerequisite: Successful completion of Algebra I  
 233 **GEOMETRY Y**  
 234 **GEOMETRY Z**

(1.5 Credits – Full-Year Class)  
**Fulfills: Geometry requirement**

This course is a full year course completed over 3 trimesters. 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**                      Prerequisite: Successful completion of Geometry  
 246 **ALGEBRA II B**

**Fulfills: Algebra II requirement**

This course is completed over 2 trimesters. 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.

247 **ALGEBRA II X**                      **Grades: 10-12**                      Prerequisite: Successful completion of Geometry  
 248 **ALGEBRA II Y**  
 249 **ALGEBRA II Z**

(1.5 Credits – Full-Year Class)  
**Fulfills: Algebra II requirement**

This course is a full year course completed over 3 trimesters. 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.

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

Fulfills: 4<sup>th</sup> Math credit or GE or Math elective

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.

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266 **TRIGONOMETRY** Grades: 11-12 **Prerequisite:** Successful completion of Algebra II  
267 **PRE-CALCULUS**

Fulfills: 4<sup>th</sup> Math credit or GE or Math elective

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.

In Pre-Calculus students will further their study of Exponential and Logarithmic Functions, Analytical Geometry and Mathematical Induction. Students will also begin the study of Derivatives and Integrals.

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

Fulfills: 4<sup>th</sup> Math credit or GE or Math elective

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.*

## MUSIC

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

Fulfills: VPA or General elective

*Freshman Band is a 1 Trimester Course but must also enroll in 755A and 755C.*

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.

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

Fulfills: VPA or General elective

*Band is a 3 Trimester Course*

Varsity band includes marching season and concert season. 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.

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

Fulfills: VPA or General elective

The major goal of this class is to develop the choir member who enjoys singing in a non-competitive manner. No audition is required for this course, just a desire to sing.

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

**Fulfills:** VPA or General elective

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.

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

**Fulfills:** VPA or General elective

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.

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776 **ELECTRONIC MUSIC** Grades: 9-12 *Prerequisite:* NONE

**Fulfills:** General elective

This course is designed to train students to use Garage Band, Noteflight and Soundtrack Pro for the creation of electronic music. Students will utilize appropriate compositional and improvisational techniques to create the product for potential usage in multiple settings: CD's, mp3's, Social media networks, etc. This course is limited due to computer availability. This class is designed for both the traditional (band/choir) musician and the recreational musician as well.

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## PHYSICAL EDUCATION

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510 **GENERAL PE** Grades: 9-12 *Prerequisite:* NONE

**Fulfills:** PE requirement or PE elective

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.

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

**Fulfills:** PE requirement or PE elective

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.

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

**Fulfills:** PE requirement or PE elective

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.

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

**Fulfills:** PE requirement or PE elective

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.

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560 **LIFETIME SPORTS** Grades: 10-12 *Prerequisite:* Teacher Approval

**Fulfills:** PE requirement or PE elective

**Course fee: \$45.00**

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.

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# SCHOOL-TO-CAREER

883 **COMMUNITY-AS-SCHOOL (CAS)**  
**½ - 3 MAXIMUM PER SCHOOL YEAR**

**Grades: 11-12** Prerequisite: Instructor approval required through application and interview process.

**Fulfills: General elective**

*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.

885 **LEADERSHIP DEVELOPMENT**

**Grades: 09-12**

**Fulfills: General elective**

Students will develop personal leadership skills and learn how to contribute effectively in a group setting. Instruction will emphasize an experiential approach toward the application of leadership, speaking, parliamentary procedure, Project PALS and debate. These activities will complement concepts in leadership, communication, group dynamics, personal development and career success.

890 **INTRODUCTION TO TEACHING I**

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

**Fulfills: General elective**

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.*

888 **INTRODUCTION TO TEACHING II A**  
889 **INTRODUCTION TO TEACHING II B**

**Grades: 12** Prerequisite: Successful Completion of Intro. To Teaching A and Instructor Approval

**Fulfills: General elective**

This course 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.

# SCIENCE

## Class of 2012

All students must enroll in Biology A and Biology B in their 9<sup>th</sup> grade year. As 10<sup>th</sup> graders, students will take Intro to Chemistry (currently Physical Science A) and Intro to Physics (currently Physical Science B) and Earth Science. Students may opt out of Physical Science A & B but still will take Chemistry A & B and Earth Science. The students must then take Physics A & B as juniors or seniors. If students opt out of Physical Science A & B, they must take and pass BOTH Chemistry and Physics to graduate.

	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade
Option #1	Biology A Biology B	Intro to Chemistry Intro to Physics Earth Science	Chemistry A & B or Physics A & B
Option #2: <b>Requires instructor's approval</b>	Biology A Biology B	Chemistry A & B Earth Science	Physics A & B

## Class of 2013 and Beyond

All students must enroll in Biology A and Biology B in their 9<sup>th</sup> grade year. As 10<sup>th</sup> graders students will take Physical Science A (formerly Intro to Chemistry) and Physical Science B (formerly Intro to Physics). Students may opt out of Physical Science A & B, but still will take Chemistry A & B. These students must then take Physics A and Physics B as juniors or seniors. If students opt out of Physical Science A & B, they must take and pass BOTH Chemistry and Physics to graduate.

	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade
Option #1	Biology A Biology B	Physical Science A Physical Science B	Chemistry A & B or Physics A & B
Option #2: <b>Requires instructor's approval</b>	Biology A Biology B	Chemistry A & B	Physics A & B

### 409 **BIOLOGY A** **Grades: 9**

**Fulfills: Biology requirement**

This one-trimester required course will cover the State Content Expectations for High School Biology. The areas to be covered will be Science Process and Cells (Structure and Function, including Photosynthesis, Respiration, Mitosis, Meiosis, and DNA).

### 410 **BIOLOGY B** **Grades: 9** *Prerequisite:* Passing grade in Biology A

**Fulfills: Biology requirement**

This one-trimester required course will cover the State Content Expectations for High School Biology. The areas to be covered will be Science Process, Genetics, Taxonomy, Evolution, Human Organ Systems, Ecology and Human Impact.

### 424 **CHEMISTRY A** **Grades: 11-12** **Prerequisite: Must pass Physical Science A (formerly known as Intro to Chemistry) or meet the requirements for option #2 above.**

**Fulfills: Chemistry requirement Option 1 or 2 or Science elective or potential 4<sup>th</sup> math credit-See Counselor**

**10<sup>th</sup> graders eligible with approval from Department Chair.**

Chemistry A is a course designed to teach the basic principles of chemistry and how they relate to the world around us using hands-on activities and laboratories. The topics to be studied include an emphasis on science process skills, physical and chemical properties of matter and changes in matter, atomic theory, atomic structure, arrangement and trends of the periodic table, ions, isotopes, chemical bonds, chemical formulas and chemical reactions.

### 425 **CHEMISTRY B** **Grades: 11-12** *Prerequisite:* Passing grade in Chemistry A **10<sup>th</sup> graders eligible with approval from Department Chair.**

**Fulfills: Chemistry requirement Option 1 or 2 or Science elective or potential 4<sup>th</sup> math credit-See Counselor**

Chemistry B is a course in laboratory science that includes an advancement of topics learned in Chemistry A. Emphasis is placed on the mole concept, % composition, empirical and molecular formulas, solutions, acids and bases, organic chemistry, gas laws and chemistry careers.

427 **ADVANCED CHEMISTRY** **Grades: 11-12** Prerequisite: B- or better in Chemistry A and Chemistry B

**Fulfills: Science elective or potential 4<sup>th</sup> math credit-See Counselor**

Chemistry C is an advanced Chemistry course in laboratory science. Emphasis will be placed on stoichiometry, thermochemistry, reaction rates and equilibrium, oxidation and reduction reactions, electrochemistry and nuclear chemistry.

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426 **PHYSICAL SCIENCE A** **Grades: 10**

**Fulfills: Requirement Option 1 or Science elective**

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.

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463 **PHYSICAL SCIENCE B** **Grades: 10**

**Fulfills: Requirement Option 1 or Science elective**

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.

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

**Fulfills: Science elective**

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.

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

**Fulfills: Science elective**

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.

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

**Fulfills: Science elective**

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.

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

441 **ANATOMY AND PHYSIOLOGY B**

**Fulfills: Science elective**

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.

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461 **VETERINARY SCIENCE** **Grades: 11-12** Prerequisite: Passing grade in Biology A and B

**Fulfills: Science elective**

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.

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465 **PHYSICS A** Grades: 11-12 **Prerequisite:** Successful completion of Chemistry B and Geometry B

**Fulfills: Physics requirement Option 1 or 2 or potential 4<sup>th</sup> math credit-See Counselor or Science elective**

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.

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466 **PHYSICS B** Grades: 11-12 **Prerequisite:** Successful completion of Physics A

**Fulfills: Physics requirement Option 1 or 2 or potential 4<sup>th</sup> math credit-See Counselor or Science elective**

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.

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467 **EARTH & SPACE SCIENCE: Space Rocks** Grades: 9-12

**Fulfills: Earth Science requirement Class of 2012 Science elective 2013 and beyond**

Six weeks of this class will be devoted to the exploration of the universe and specifically the Milky Way Galaxy. Topics covered will include binary stars, black holes, star formation, supernovae, eclipses, constellations, lunar phases, asteroids, comets, and planets of the solar system. The remaining six weeks will cover planet Earth and will include the study and classification of rocks and minerals, earthquakes and volcanic activity including super volcanoes and plate tectonics. Any student interested in the study of Astronomy and basic Earth science will see that Space Rocks!

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468 **METEOROLOGY** Grades: 10-12

**Fulfills: Science elective**

Fascination with meteorology and the study of the weather is a daily part of many of our lives. In this course, students will learn basic weather concepts including information about fronts and tropical storms, weather forecasting, clouds, pressure and wind, El Nino, the Coriolis Effect, the seasons, lake effect snow and jet streams. Students will develop an appreciation for the fluid Earth which includes the study of hydrology, glaciers, aquifers, oceans, lake and river formation and biogeochemical cycles. This is a class in which students will gain a lot of practical and applicable knowledge that can be used in everyday life.

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

**Fulfills: Science elective**

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).

## SOCIAL STUDIES

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

**Fulfills: Government requirement**

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.

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

**Fulfills: Economics requirement**

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.

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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 B-WWII Through Modern History

**Fulfills: U.S. History requirement**

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.

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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 A-Age of Expansion Through the New Deal.

**Fulfills: U.S. History requirement**

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.

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

**Fulfills: World History requirement**

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.

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

**Fulfills: World History requirement**

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.

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

**Fulfills: Social Studies elective**

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.

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

**Fulfills: Social Studies elective**

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.

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

**Fulfills: U.S. History requirement or Social Studies elective**

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.

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

**Fulfills: Social Studies elective**

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!

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350    **PSYCHOLOGY**                      **Grades: 11-12**    ***Prerequisite:*** Recommended for students with above average reading & writing skills. Sophomores with teacher permission.

**Fulfills: Social Studies elective**

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.

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360    **INTRODUCTION TO WORLD RELIGIONS**    **Grades: 11-12**    ***Prerequisite:*** NONE

**Fulfills: Social Studies elective**

This is a trimester long, intensive study of the major religions of the world. During the course of our trimester together, we will examine Hinduism, Christianity, Judaism, Buddhism, Islam, Confucianism, Taoism, plus brief descriptions of other religions and religious practices. We will attempt to use primary sources, as well as secondary sources in our study of each religion. This class will be set up in a college format. We will meet two to three times a week, with the other scheduled meeting times to be used to complete readings, group work, and Moodle assignments on your own. This class is limited to juniors and seniors only, and will be a challenge to the students in both content and expectations.

## WORLD LANGUAGE

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190    **SPANISH I A**                                      **Grades: 9-12**    ***Prerequisite for Spanish IA:*** None  
191    **SPANISH I B**                                      ***Prerequisite for Spanish IB:*** Spanish IA

**Fulfills: World Language elective**

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.

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192    **SPANISH II A**                                      **Grades: 10-12**    ***Prerequisite:*** Spanish I A and Spanish I B  
193    **SPANISH II B**

**Fulfills: World Language elective**

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.

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194    **SPANISH III A**                                      **Grades: 11-12**    ***Prerequisite:*** Spanish IIB  
195    **SPANISH III B**

**Fulfills: World Language elective**

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.

# CAREER TECHNICAL EDUCATION PROGRAMS

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

*Prerequisite:* Woodworking course

800	B-A-H I	1 <sup>st</sup> Year Students	Grades: 11-12
801	B-A-H II	2nd Year Students	Grades: 12
803	INTRO TO B-A-H	(1 block class)	Grades: 9-12
804	ADVANCED B-A-H	(1 block class – 3rd term only)	Grades: 11-12

**Fulfills:** VPA or General elective  
**Potential 4<sup>th</sup> Math credit-See Counselor**

Build A Home is a site-based program located away from the high school building where transportation is provided to and from the site. The focus of the program is to cover the 12 segments (Safety & Career Awareness, Wood/Fasteners, Blueprints/Concrete, Floor Framing/Wall and Ceiling Framing, Roof Framing, Roofing, Windows and Doors, Siding and Decks, Insulation & Wall Finish, Interior Finish, Stair Framing & Finish, and Cabinets & Countertops) through classroom course work and the building of a residential structure. The course does require regular attendance, as it is a hands-on learning experience where students work on employability and trade skills. Students are to provide and wear job appropriate clothes and footwear to work in all safe weather conditions. Safety glasses, safety equipment and tools will be provided. A letter of recommendation should be a goal of each student upon completion of the course.

805	<b>ROBOTICS ENGINEERING</b>	<b>Grades: 9-12</b>	<i>Prerequisite:</i> At least a C- in all math classes taken.
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**Fulfills:** General elective or  
**Potential 4<sup>th</sup> Math credit-See Counselor**

*Prerequisite for Math credit:* Geometry

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.

842A	<b>PLANT &amp; ANIMAL SCIENCE</b>	<b>Grades: 11-12</b>
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842B **Fulfills:** VPA or General elective  
 842C **Potential 4<sup>th</sup> Math credit-See Counselor**

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	<b>DENTAL OCCUPATIONS</b>	<b>Grades: 11-12</b>
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822B **Fulfills:** VPA or General elective  
 822C **Potential 4<sup>th</sup> Math credit-See Counselor**

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	<b>HEALTH OCCUPATIONS</b>	<b>Grades: 11-12</b>
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834B **Fulfills:** VPA or General elective  
 834C **Potential 4<sup>th</sup> Math credit-See Counselor**

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. In this 1-year program, 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. Related occupations include: Physical Therapy Aide, Ambulance Attendant, Occupational Therapy Aide, Nursing Assistant, Orderly, Pharmacy Technician, Central Supply Aide, Dietary Aide, and Home Health Assistant. Upon completion of the program the student will be certificate eligible and can take the state clinical and written exams.

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830A

830B **CULINARY ARTS**

**Grades: 11-12**

830C

**Fulfills: VPA or General elective**  
**Potential 4<sup>th</sup> Math credit-See Counselor**

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 entree items. This 1-year program operates the Class Act Restaurant giving students the opportunity to gain skills as a waiter/waitress, short order cook, host/hostess, and cashier. The Culinary Arts program follows the Pro-Start and Serv-Safe curriculum.

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810A

810B **AUTOMOTIVE TECHNOLOGY**

**Grades: 11-12**

810C

**Fulfills: VPA or General elective**

The Automotive Technology Program is a 2 year program that covers the eight areas of Automotive Service Excellence (ASE) certification. The eight areas are: engine repair, automatic transmission, manual transmission and driveline, suspension and steering, brakes, electrical and electronic systems, heating and air conditioning, and engine performance. This course is a mixture of theory and operation taught in the classroom and hands-on training in the laboratory. Students will have the opportunity to take certification tests throughout the year and if successful, they will leave the program a certified automobile technician or well prepared for college.

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826A

826B **DIESEL/HEAVY EQUIPMENT**

**Grades: 11-12**

826C

**Fulfills: VPA or General elective**  
**Potential 4<sup>th</sup> Math credit-See Counselor**

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.

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838A

838B **MACHINE TOOL**

**Grades: 11-12**

838C

**Fulfills: VPA or General elective**  
**Potential 4<sup>th</sup> Math credit-See Counselor**

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.

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844A

844B **CRIMINAL JUSTICE**

**Grades: 11-12**

844C

**Fulfills: VPA or General elective**  
**Potential 4<sup>th</sup> Math credit-See Counselor**

The Criminal Justice program is designed to provide basic knowledge, skills and behaviors necessary for continued education in the fields of law enforcement, probation, corrections, investigation, private security and other criminal justice related positions. Criminal Justice is a 2-year program where after successful completion of the first year, a student may apply to be selected as a second year student. Students will experience areas of instruction to include law, ethics, investigations, physical conditioning, first aid, defensive tactics, and patrol and police skills. Due to the adult and sometimes graphic nature of the subject matter, a high level of student maturity and discipline is recommended for success in the program. Criminal Justice students will have the opportunity to receive 12 college articulated credits and develop strategies to help ensure achievement at their next education level.