

Otsego High School Graduation Requirements (Michigan Merit Curriculum) Class of 2011 26.5 Credits to Graduate
MATHEMATICS - 4 Credits
1 credit Algebra I 1 credit Geometry 1 credit Algebra II 1 credit additional Math (12 th grade)
ENGLISH LANGUAGE ARTS - 4 Credits
1 credit English 1 <i>or</i> Honors English 1 1 credit English 2 <i>or</i> Honors English 2 1 credit English 3 <i>or</i> American Literature 1 credit additional English
SCIENCE - 3 Credits
1 credit Biology .5 credits Physics 1 .5 credits Chemistry 1 .5 credits Earth Science .5 credits additional Science
SOCIAL STUDIES - 4 Credits
1 credit World History / Geography 1 credit US History .5 credits Government .5 credits Economics 1 credit additional Social Studies
PHYSICAL EDUCATION & HEALTH – 1 Credit
COMPUTER APPLICATIONS – 1 Credit
VISUAL, PERFORMING AND APPLIED ARTS - 1 Credit
COMMUNITY SERVICE – 10 Hours (5 each during Junior and Senior years)
ONLINE LEARNING EXPERIENCE
Course, Learning or Integrated Learning Experience
LANGUAGE OTHER THAN ENGLISH - 2 Credits
In grades 9-12; OR an equivalent learning experience in grades K-12

All students shall be enrolled full-time for four years (12 trimesters). The normal class load for each trimester is five classes. Transfer students will audit in at a rate not to exceed the Otsego normal rate of credit accrual of 7.5 credits per year.

<p>Otsego High School Graduation Requirements Class of 2009 – 27 credits to graduate Class of 2010 – 26.5 credits to graduate</p>
<p>MATHEMATICS - 3 Credits</p> <p>1 credit Algebra I (Alg1A) 1 credit Geometry 1 credit Algebra II (Alg1B/C)</p>
<p>ENGLISH LANGUAGE ARTS - 4 Credits</p> <p>1 credit English 1 <i>or</i> Honors English 1 1 credit English 2 <i>or</i> Honors English 2 1 credit English 3 <i>or</i> American Literature 1 credit additional English</p>
<p>SCIENCE - 3 Credits</p> <p>1 credit Biology .5 credits Physics 1 (or Physical Science) .5 credits Chemistry 1 (or Physical Science) .5 credits Earth Science .5 credits additional Science</p>
<p>SOCIAL STUDIES - 4 Credits</p> <p>1 credit World History / Geography 1 credit US History .5 credits Government .5 credits Economics 1 credit additional Social Studies</p>
<p>PHYSICAL EDUCATION & HEALTH – 1 Credit</p>
<p>COMPUTER APPLICATIONS – 1 Credit</p>
<p>VISUAL, PERFORMING AND APPLIED ARTS - 1 Credit</p>
<p>COMMUNITY SERVICE – 10 Hours (5 each during Junior and Senior years)</p>
<p>ONLINE LEARNING EXPERIENCE Course, Learning or Integrated Learning Experience</p>
<p>LANGUAGE OTHER THAN ENGLISH - 2 Credits In grades 9-12; OR an equivalent learning experience in grades K-12</p>

All students shall be enrolled full-time for four years (12 trimesters). The normal class load for each trimester is five classes. Transfer students will audit in at a rate not to exceed the Otsego normal rate of credit accrual of 7.5 credits per year.

ART DEPARTMENT

Basic Drawing - One trimester (9-12) (No prerequisite)

In this introductory level class, students will learn and hone basic drawing and shading skills and techniques, using a variety of media. Perspective will also be introduced.

Basic Design -One trimester (9-12) (No prerequisite)

In this introductory level class, students will work with the elements and principles of two-dimensional design, using a variety of media.

Advanced Design - One trimester (10-12) (Prerequisites: Basic Drawing, Basic Design)

These students will build on the knowledge and skills learned in Basic Drawing and Basic Design. Students will work in a variety of media, both two and three-dimensional. Students will also be introduced to basic printmaking, painting, pottery and sculpture.

Painting - One trimester (10-12) (Prerequisites: Basic Drawing, Basic Design, Advanced Design)

Students will learn a variety of painting styles and techniques while working with watercolor, acrylic, tempera, and oils.

Printmaking - One trimester (10-12) (Prerequisites: Basic Drawing, Basic Design, Advanced Design)

Students will learn a variety of printmaking styles and techniques, including relief, intaglio, serigraphy, and monoprinting.

Pottery - One trimester (10-12) (Prerequisites: Basic Drawing, Basic Design, Advanced Design)

Students will learn basic handbuilding techniques, glazing techniques, and kiln firing. Students will also have an opportunity to work on the pottery wheel.

Sculpture - One Trimester (10-12) (Prerequisites: Basic Drawing, Basic Design, Advanced Design)

Students will learn three-dimensional design techniques in a variety of media. These can include clay, wire, wood, cardboard, paper mache', and found objects.

Independent Studio Art - One trimester (10-12) (Prerequisites: Basic Drawing, Basic Design, Advanced Design, At least two sections of the Painting, Printmaking, Pottery, and Sculpture Sequence, B average in art classes, Teacher Permission)

This studio experience can be an in-depth study of a particular field or media, or an exploratory course of various media. The primary focus should be building an appropriate body of work for inclusion in a portfolio for college admission. This class may be selected multiple times.

BUSINESS DEPARTMENT

Keyboarding – One trimester (9-12) (No prerequisite)

This course is designed for those students who have little or no keyboarding experience. Students will learn the touch method of alphabetic and numeric keyboarding beginning with the home row.

Computer Applications 1 – One trimester (9-12) (Prerequisite: Keyboarding or 30 wpm typing speed)

This course is designed to reinforce keyboarding skills, teach word processing, and database management using Microsoft Office 08 (Word and Access). Students will be able to apply word processing and database management to personal computer usage for completing school assignments, college, and work-related use. Slower typists should expect to spend some time after school making up work to keep up with class.

Computer Applications 2 – One trimester (9-12) (Prerequisite: Keyboarding or 30 wpm typing speed)

This course is designed to reinforce keyboarding skills, teach spreadsheet applications and presentation software. Students will learn electronic spreadsheet skills and presentation skills using Office 08 (Excel and Power Point). Students will be able to apply these skills to personal computer usage for completing school assignments, college, and work-related use. Slower typists should expect to spend some time after school making up work to keep up with class.

Desktop Publishing – One trimester (9-12) (Prerequisite: Computer Applications 1)

This class is designed to develop desktop publishing concepts. Desktop publishing is an extremely marketable skill in today's technical workplace. This course is designed to teach students to create a variety of high-impact, professional looking publications for home and school. Students will utilize the following software: Microsoft Publisher, Microsoft Power Point, and Movie Maker.

Advanced Computer Applications - One trimester (10-12) (Prerequisite: Computer Applications 1 and 2)

This class is designed to extend the student's knowledge of Microsoft Word, Excel, Access, and PowerPoint. Students will develop proper procedures to create more advanced documents, workbooks, databases, and presentations suitable for course work, professional purposes, and personal use.

Web Design 1 - One trimester (9-12) (Prerequisite: Computer Applications 1 or 2)

This course is designed to teach introductory web design concepts. Students will learn to create web pages using different techniques. Students will learn to create a basic page by writing raw HTML code and how to create a more advanced web page through the use of Adobe Dreamweaver CS3.

Web Design 2- One trimester (9-12) (Prerequisite: Web Design 1)

This course is designed to teach intermediate web design concepts. Students will learn how to create dynamic web page content through the use of Adobe Flash CS3 and how to create and edit images for web pages through the use of Adobe Fireworks CS3. Select students within this class will have the opportunity to design and maintain teacher websites.

Internet – One trimester (9-12) (No prerequisite)

This course is designed to acquaint students with the basic tools and skills necessary for working with the Internet. Students will learn about Acceptable Use, Netiquette, Website Evaluation, Software Piracy, Plagiarism, and Internet ethics. Students will engage in a variety of activities utilizing problem solving and critical thinking and will learn a variety of skills that will aid in their future success in high school, college, and work.

Business Communications – One trimester (10-12) (Prerequisite: English I)

This course is designed to teach the communication tools necessary for the world of work. It covers a broad range of topics & skills to help students develop competence in each of the communication skills; reading, writing (including electronic communication), speaking, and listening. *Given the emphasis on communication skills, this course can also count as an English elective.*

Introduction to Business Administration – One trimester (10-12) (No prerequisite)

Foundation course intended to equip the learner with general base of business knowledge with a focus on the foundation skills and workplace competencies identified by the U.S Secretary's Commission on Achieving Necessary Skills. Curriculum will also be driven by local and state standards as targeted by the Michigan curriculum framework and Otsego Technology Plan.

Applied Business Administration – One trimester (11-12) (No prerequisite)

Application course focused on entrepreneurial and management skills. The learner will manage and operate a business in a model simulation designed with the foundation skills and workplace competencies identified by the U.S Secretary's Commission on Achieving Necessary Skills. Students will complete a business plan project.

American Legal History – One trimester (11-12) (No prerequisite)

A course offering a broad range of competency building activities designed to provide students with the ability to analyze, evaluate, and critique through investigation the resolutions of various legal disputes and the historical landmark decisions that have shaped the American legal system.

Advanced American Legal History – One trimester (11-12) (Prerequisite: American Legal History)

An applied study of the changes in interpretation of the constitution and the implication of contemporary legislative and judicial tendencies on the everyday lives of American citizens. Available as an independent study through the approval of the instructor, guidance staff, and administration.

Financial Business Administration – One trimester (10-12) (No prerequisite)

Foundation course intended to equip students with the application skills necessary to analyze and classify business transactions according to generally accepted accounting practices. Students will learn to create and use financial documents and records and learn how to use them in making administrative decisions for service and manufacturing companies set up as sole proprietorships, partnerships, or corporations.

Advanced Financial Business Administration – One trimester (10-12) (Prerequisite: Financial Business Administration)

An advanced continuation of theory and application designed to build upon accounting and finance practicum as developed in Financial Business Administration.

Business Administration Marketing Strategies – One trimester (11-12) (Prerequisite: Previous Business Administration credit or instructor approval.)

Practicum course which requires students to develop, implement, and monitor the progress of managing the school store. Curriculum will include the study of marketing as consistent with the administration functions of business management and the completion of a 40 hour program of study entitled *school store operations*.

ENGLISH DEPARTMENT

English 1A and B – Two trimesters (9) (No prerequisite)

This course covers a diverse selection of literature and provides students an opportunity to develop academic skills for their high school careers and future success. Students will continue to improve their reading comprehension and writing skills. Students will learn to recognize and analyze literary concepts and author's techniques. Materials used will include short stories, novels, drama, poetry, and essays. Vocabulary, spelling, and grammar are also integrated into the coursework.

Honors English 1A and B – Two trimesters (9) (Prerequisite: Teacher Recommendation)

This course covers a diverse selection of literature and provides students an opportunity to develop academic skills for their high school careers and future success. Students will continue to improve their reading comprehension and writing skills. Students will learn to recognize and analyze literary concepts and author's techniques. Materials used will include short stories, novels, drama, poetry, and essays. Vocabulary, spelling, and grammar are also integrated into the coursework. Honors English 1 is recommended for students wishing to pursue the AP track.

English 2A and B - Two trimesters (10) (Prerequisite: English 1)

This course covers a wide variety of international literatures and is designed to develop student skills for academic success in high school and beyond. Over the course of the semester, emphasis will be on improving reading, writing, and research skills. Students will continue to learn to recognize and analyze structure and author's techniques. Materials covered will include novels, short stories, drama, and poetry. Vocabulary, spelling, and grammar will be included throughout the semester.

Honors English 2A and B – Two trimesters (10) (Prerequisites: Grade “B” or higher in English 1 or Advanced English 1)

This course explores covers a wide variety of international literatures and is designed to develop student skills for academic success in high school and beyond. Over the course of the semester, emphasis will be on improving reading, writing, and research skills. Students will continue to learn to recognize and analyze structure and author's techniques. Materials covered will include novels, short stories, drama, and poetry. Vocabulary, spelling, and grammar will be included throughout the semester. Honors English 2 is recommended for students wishing to pursue the AP track.

English 3A and B – Two trimesters (11) (Prerequisite: English 2)

This course is designed to continue the writing advancement of students who do not wish to continue toward college level literature analysis. This class focuses on workshop writing and recognizing common formats for conveying written information. The course also reviews grammar and English skills for the ACT test.

American Literature A and B - Two trimesters (11) (Prerequisite: English 2)

This course will expose students to a variety of writings, including papers, projects, and presentations. The American movement in literature will be studied from the colonial period all the way through modern literature. The course also reviews grammar and English skills for the ACT test .

AP English Literature and Composition – Three trimesters (11-12) (Prerequisites: American Literature A and B)

This course is designed to prepare students for the demands of college reading and writing while also preparing students to take the Advanced Placement Literature and Composition test for possible college credit offered each May. This course incorporates all of the requirements of British Literature/College Writing while placing emphasis on the skills needed for the college level study of fiction, drama, and poetry. Students are required to purchase their own copies of novels, offered at discount prices through the instructor. Financial assistance will be provided for students displaying need.

British Literature - Two trimesters (11-12) (Prerequisite: American Literature)

This course explores the British literary tradition from its beginnings through modern times. It is also designed to prepare students for the rigors of college writing and analysis.

Creative Writing/Short Story – One trimester (10-12) (No prerequisite)

This course will explore poetry, plays, song lyrics, and children’s literature. Students in this class will be able to experience the world of creativity through their own writings, as well as those of their peers and published writers. Writing techniques and styles will be explored.

Independent Reading – One trimester (9-12) (No prerequisite)

This one trimester course is intended for the student who enjoys reading. Students work within their individual learning levels to read novels, short stories, poetry, newspapers, and magazine articles. Each nine weeks the students complete two novel projects, one short story project, and one poetry project. The students evaluate literary elements, poetry elements, and author’s style.

Mystery – One trimester (10-12) (No prerequisite)

This one trimester course traces the development of the detective and mystery story, beginning with Poe and continuing through modern times. Students will complete individual and group projects and presentations related to these areas. Material will include novels, plays, and short stories.

Contemporary Literature – One trimester (9-12) (No prerequisite)

This course will study fiction created in the Science Fiction and Fantasy literature categories. There will be emphasis on heroic archetypes and heroic journey as demonstrated in fairytale, legend and fantasy literature. Also addressed are the societal implications of advances in technology and how those themes are addressed in science fiction.

Mythology – One trimester (10-12) (English 1)

This course concerns the study of myths from around the world, with a concentration on the European mythic tradition. This knowledge is then applied to thoughts, ideals and practices of the modern world, thus in the large sense, becoming a comparative philosophy class.

Public Speaking – One trimester (10-12) (No prerequisite)

This course is designed to allow students the opportunity to research, present, and discuss a variety of topics in front of a large group of their peers. The speeches will be independent, but all speeches will have definite requirements and will be timed.

Public Oratory – One trimester (10-12) (Prerequisite: English II)

This one trimester course is designed to allow students the opportunity to research, present, and discuss a variety of topics in front of a large group of their peers. Students will be expected to work with at least one partner each debate.

FOREIGN LANGUAGE DEPARTMENT

French 1 - 2 trimesters (9-12) (No prerequisite)

French 1 helps the student to develop progressively in listening comprehension, speaking, reading and writing the French language. The student is introduced to the various cultures of francophone societies. Basic grammar structures are introduced as well as functional phrases and contextualized vocabulary.

French 2 - 2 trimesters (9-12) (Prerequisite: French 1)

French 2 is a continuation and reinforcement of French 1 with focus on additional grammar topics. Students will be involved in situations that necessitate implementation of all four communication skills. An emphasis will be placed on learning the attitudes, customs and habits of the French society.

French 3 - 1 trimesters (10-12) (Prerequisite: French 2)

French 3 continues to build upon the knowledge base formed in French 1 & 2. However, the major emphasis will be applying the skills previously learned. Major time investments will be made in the areas of speaking the language and in listening comprehension.

Spanish 1 – Two trimesters (9-12) (No prerequisite)

Study of basic skills with an emphasis in speaking and communication, comprehension, reading and writing in Spanish. Students will be able to use a variety of vocabulary words, operate in the present tense, comprehend at-level spoken Spanish and read and write with a high degree of accuracy. In addition, students will be introduced to Hispanic culture.

Spanish 2 - Two trimesters (9-12) (Prerequisite: Spanish 1)

There is continued practice of the skills. The student's previous knowledge is used to continue the process of gaining Spanish proficiency in the four areas of speaking, reading, writing, and listening. Students are required to speak Spanish during class.

Spanish 3 – Two trimesters (10-12) (Prerequisite: Spanish 2)

This course further expands the student's abilities in the five basic skills of speaking, reading, writing and listening within thematic areas. Students will expand their command of the Spanish language by means of being exposed to new vocabulary items, essential grammatical structures, and extensive readings. Students completing this level are able to engage in conversation, comprehend another person without much repetition, read newspaper and magazine articles, and write with a high level of accuracy. Students are required to speak in Spanish during class.

Spanish 4 - One trimester (10-12) (Prerequisite: Spanish 3)

This course further develops a student's skills in vocabulary, composition and fluency. Previously learned grammatical forms are expanded upon, and more advanced grammatical concepts are learned. Students will comprehend talk about special fields of interest and narratives of a non-technical or specialized nature. Spanish 4 students will continue to develop an appreciation for literature and film in the target language. Students are required to speak in Spanish during class.

Spanish 5 – One trimester (11-12) (Prerequisite: Spanish 4)

This course covers the equivalent of a third-year college course in Spanish conversation and composition. The course is reading and writing intense. It encompasses aural/oral skills, reading comprehension, grammar and composition and an emphasis on Hispanic literature.

Advanced Placement Spanish – Three trimesters (Prerequisite: Spanish 3B)

Advanced Placement Spanish will build on prior skills with a focus on the written and spoken language. Students will improve their Spanish proficiency through an advanced study of the literature and culture of the Spanish speaking world. The course will prepare students to take the Advanced Placement Spanish test for college credit.

INDUSTRIAL EDUCATION DEPARTMENT

Computer Graphic Design – One trimester (9-12) (No prerequisite)

This course is intended to introduce students to concepts of computer imaging and photo editing through the use of Adobe Photoshop. Students coming into this class would be expected to use this software in order to create design projects that include such designs using: Shapes, filters, rendering effects and photo editing techniques used in creating collages. Students should also expect to learn how to use printers and scanners to achieve professional looking results as opposed to just “printing out a Word document”. All finished designs will be presented and handed in a professional manner.

Industrial Graphic Design – One trimester (9-12) (No prerequisite)

This course is intended to introduce students to concepts involving Industrial Design. Industrial Design is the development and innovation of new and existing products in our world. Have you ever wondered who invented your MP3 player and computer mouse or perhaps the vacuum cleaner you never use? Regardless of your answer, everything you use has been created by an artist called an industrial designer who has either invented the product or improved it in some way. Industrial designing is a big word for inventing. These designers think up new ways to improve the world, one product at a time, all by being creative. Students should expect to creatively solve design problems by brainstorming, coming up with new innovations and then creating static and working models to represent their solutions.

Advanced Graphic Design – One trimester (10-12) (Prerequisites: Computer Graphic Design and Industrial Graphic Design)

This course is a continuation of study from the two introductory courses of Computer Graphic Design and Industrial Graphic Design. Students coming into this class would be expected to build upon prior experiences gained through introductory courses. Students would have the opportunity to choose a field(s) of industry to work within, such as: Gaming, furniture, sporting goods, technology just to name a few. Most projects are conducted in groups of 2-4 depending on the project. In most cases, projects are developed by individual or groups of students and completed in class and at home if needed.

Computer Imaging – One trimester (10-12) (Prerequisites: “A” average or instructor approval in both Computer Graphic Design and Industrial Graphic Design, along with teacher approval.)

This course is a continuation of Computer and Industrial Graphic Design. Students enrolled in this class would work almost completely with computers to create graphics used in web design, publication layouts and animation. Students would be expected to achieve a high level of knowledge in operating Adobe Photoshop in regards to layout, design, composition and computer generated graphics. Finished products will result in a comprehensive portfolio.

LIFE MANAGEMENT DEPARTMENT

Personal Living - One trimester (9-10) (No prerequisite)

This course is designed to be a good starting class in home economics for both male and female students, and this course places emphasis on the individual and his/her relationship with others. Personal Living allows the student to obtain self-knowledge and to practice the skills necessary for a successful and responsible life. The emphasis is on each person to grow and achieve his/her full potential.

Parenthood – One trimester (10-12) (No prerequisite)

This course teaches parenting skills via simulation, video tapes, interaction with people who are parents and/or caregivers, and through direct interaction with children. Use of the “Baby-Think-It-Over” dolls provide experience with a “crying” baby. This course also examines personal readiness to become a parent and the issues important to raising healthy children with positive parent-child relationships. Also covered are the newborn and children up to age five, as well as the issues of health, safety, preschool, and child care needs.

Nutrition Education – One trimester (10-12) (No prerequisite)

This course is designed to cover the basics in nutrition, tools of cookery, measurements, cooking terms and the principles of food management. Areas included are fruits, vegetables, meats and breads. In the second half, there will be more emphasis on additional nutrition and the food pyramid, convenience foods and technology, foreign foods, grain products, milk, cheese and eggs.

Interior Design – One trimester (10-12) (No prerequisite)

This course involves the use of resources, as well as values and goals, in planning an apartment or home. Emphasis will be given to elements and principles of design, use of color, furnishings and decorating a home. This course also includes kitchen planning, room arrangement, laundry, costs and convenience. Projects may include home buying, designing or planning a home and its furnishings, and the use of design principles.

Family Living - One trimester (10-12) (No prerequisite)

This course emphasizes practice and development skills to expand communication techniques, prepare for different needs in each of the life cycle stages, coordinate work and family, understanding yourself and others, as well as dating and marriage relationships. Other areas to be discussed are having a baby, resolving family crisis, choosing a career, balancing needs and resources and managing independent living.

Health and Wellness – One trimester (10-12) (No prerequisite)

This course is designed to provide individuals with the decision making skills necessary to make smart and informed choices in matters related to health issues. (Mental/Emotional, Physical, Nutrition and Relationships)

Freshman Focus – One trimester (9) (No prerequisite)

The purpose of this course is to help freshmen make a smooth transition into high school. The course will include an in-depth orientation to OHS, as well as units on the study skills necessary for success at the high school. Additional topics will include career exploration/career pathways, personal/social skills and health/wellness.

MATH DEPARTMENT

General Math – One trimester (9-10) (Prerequisite: Teacher recommendation.)

This is a course for students with below-grade achievements in mathematics who have not demonstrated the ability to succeed in Algebra. Topics will include computation and equation solving with fractions and mixed numbers, decimals and integers. There will also be applications involving ratios, proportions, percents and square roots.

Algebra 1A – One trimester (9-12) (Prerequisite: Placement of the course will be determined by the coursework taken during middle school, teacher recommendation, and placement test scores.)

This is the first section of a series of three trimester requirements to fulfill the content contained within Algebra 1. This course will cover the language and tools of Algebra, solving linear equations, analyze the patterns of functions, and deal with the graphs of linear functions.

Algebra 1B – One trimester (9-12) (Prerequisite: Successful completion of Algebra 1A or coursework taken during middle school, teacher recommendation, and placement test scores.)

This is the second section of a series of three trimester requirements to fulfill the content contained within Algebra 1. This course will cover concepts in systems of equations, linear inequalities, polynomials, and factoring.

Algebra 1C – One trimester (9-12) (Prerequisite: Successful completion of Algebra 1B or the coursework taken during middle school, teacher recommendation, and placement test scores.)

This is the third section of a series of three trimester requirements to fulfill the content contained within Algebra 1. This course will cover concepts in quadratic and exponential functions, radical expressions and equations, and some statistics and probability.

Geometry A/B – Two trimesters (9-12) (Prerequisite: Algebra 1)

This course is designed for the college-bound student who has a good mathematical background. It is the study of plane configurations such as triangles, quadrilaterals and circles. Study will continue into three-dimensional figures. It develops the ability to use deductive and inductive reasoning.

Basic Geometry A/B – Two trimesters (10-12) (Prerequisite: Algebra 1)

This course is designed for the student who is bound for college or technical training beyond high school or for the student who has chosen an occupation where a good knowledge of mathematics will enhance chances of success. Some of the topics covered include angles, parallel lines, and triangles, quadrilaterals, proportions, polygons and area, circles, surface area and volume, and simple trigonometry. This class will incorporate more algebra and practical applications.

Algebra 2A/B – Two trimesters (9-12) (Prerequisites: Algebra 1 and Geometry)

Topics covered in this course will be an extension of those covered in the Algebra I sequence. Those topics include linear, quadratic and polynomial functions. Other topics that will be discussed will include imaginary and complex numbers, systems and matrices, radical, rational and exponential functions. Discussions with logarithms, conic sections, sequences and series, as well as probability and statistics will also be included.

Trigonometry – One trimester (11-12) (Prerequisite: Algebra 2)

This is a one trimester course intended for the college-bound student. Topics in this class will include linear relations and functions, systems of linear equations and inequalities, polynomial and rational functions, and of course, trigonometry.

Pre-Calculus – One trimester (11-12) (Prerequisite: Trigonometry)

This is a one trimester course designed to prepare students for the study of calculus. Topics covered include: graphical analysis of function families; vectors and parametric equations; polar coordinates and complex numbers; data analysis; analysis of sequences and series; limits; and an introduction to calculus. Extensive use of graphing calculators is incorporated throughout the course.

A.P. Calculus – Three trimesters (11-12) (Prerequisites: “A” or “B” in Trigonometry and Pre-Calculus.)

An advanced placement course in mathematics, consisting of calculus and related topics, that is comparable to courses in college and universities. Topics to be covered include differentiation and its applications along with a brief review of trigonometry, integration and its application along with differential equations L'Hopital's Rule, power series and an extensive review for the AP Calculus exam.

Statistics – One trimester (11-12) (Prerequisite: Algebra I)

This is an introductory course, focusing on data collection (surveys and sampling), data display (graphs and tables) and basic data analysis (measures of center, basic variability), and correlation of bivariate data.

Consumers Math – One trimester (11-12) (No prerequisite)

This course is designed for all math students and will be one trimester in length. This class consists of a review of arithmetic operations and incorporates these into everyday situations. Topics covered include the expenses of operating a car, commercial transportation, purchasing consumer goods, income, income tax, banking services, investments, insurance, etc.

MUSIC DEPARTMENT

Marching Band – One trimester (9-12) (Prerequisite: Necessary technical ability and background in basic musicianship to perform instrumental band music at the high school level.) (Intermediate to Advanced level of difficulty)

Marching Band is comprised of all members of the high school band. Members must attend Marching Band Camp the first two weeks of August. During these weeks of camp, students will work on basic marching fundamentals, and skills necessary for the entire fall marching season. During this week, the music and drill will be taught. This show will be performed for the District Marching Band Festival, home football games, and additional competitions during the fall.

Concert Band – Two trimesters (9-12) (Prerequisite: Must also be enrolled in the fall season Marching Band.) (Intermediate to Medium Advanced level difficulty)

Open, by audition to those students with a reasonable to intermediate proficiency on a band instrument. Concert Band members are expected to participate in marching band including: summer band camp, parades, show performances, as well as all sectionals. After marching band season, the marching band will divide and meet in a concert setting for the remainder of the year. Objectives include the continuation of the development of correct playing habits, sight reading, performance standards, intonation and phrasing. The concert band will perform in MSBOA District and State Band Festivals, as well as other band activities. In addition to the regular scheduled concerts, concert band members are encouraged to participate with the pep band for the boys basketball season. Private lessons are highly recommended.

Symphonic Band – Two trimesters (9-12) (Prerequisite: Membership by audition. Must also be enrolled in the fall season Marching Band.) (Medium Advanced to Advanced level of difficulty)

Open, by audition to those students with an advanced proficiency on a band instrument. Symphonic Band members are expected to participate in marching band including: summer band camp, parades, show performances, as well as all sectionals. After marching band season, the marching band will divide and meet in a concert setting for the remainder of the year. Objectives include the continuation of the development of correct playing habits, sight reading, performance standards, intonation and phrasing. This course will expect students to perform very challenging wind band literature to the highest standards. The symphonic band will perform in MSBOA District and State Band Festivals, as well as other band activities. In addition to the regular scheduled concerts, symphonic band members are encouraged to participate with the pep band for the regular boys basketball season. Private lessons are strongly recommended.

Fundamentals of Music/Music Appreciation – One trimester (9-12) (No prerequisite)

A study of fundamentals, including notation, scales, intervals, basic chord construction, and the rhythmic/metric aspect of music. This is an introductory study in music theory and appreciation.

Concert Choir - Two trimesters (9-12) (No prerequisite)

Open to all students with no audition required. Materials covered include all kinds of choral music: folk, classical, pop, musical show; small and large choral group experiences will be offered. Students will learn the basic fundamentals of singing, sightreading and music listening and notation.

Meister Singers - Three trimesters (9-12) (Prerequisite: Audition)

Open to students of all grades by audition. Detailed group voice instruction and group rehearsals will be a part of daily classes. An annual musical show will be open to students who are in Meister Singers during the semester in which the musical show is produced. Students will learn a variety of music literature, theory and sightreading.

Treble Choir - Three trimesters (9-12) (Prerequisite: Audition)

Treble Choir is an auditioned women's ensemble. This is a full year course. Usually two performances a semester are scheduled. Students will learn how to use their voices properly, learn a wide variety of music, learn the appropriate etiquette for choir concerts, proper breathing technique and posture, music theory, notation and listening.

Vocal Seminar – One trimester (9-12) (Prerequisite: Beginning singing/approval from director)

Vocal seminar is audition only. This class is based mostly on solo singing. Students will learn in depth about proper vocal technique, including breathing, posture, stage presence, and using the voice most effectively. All students will sing multiple solos for the class. All vocal seminar students during 2nd trimester will be in the musical.

PHYSICAL EDUCATION CLASSES

General Physical Education – Two trimesters (9-12) (No prerequisite)

This course is designed to develop physical fitness, knowledge of physical activities, sportsmanship, leadership, safety, teamwork, and individual expression through body movement. Emphasis is placed on leisure time activities, cleanliness and good health habits are stressed.

Strength/Conditioning – One trimester (9-12) (Prerequisite: General Physical Education)

This is an entry level course for the beginning weight lifter. The emphasis of this class will be on lifetime fitness. In this class, students will be exposed to muscular strength and cardiovascular activities that will improve and promote everyday living. Students will have an understanding of the major muscle groups and how the activities performed in class affect them.

Life Long Fitness – One trimester (9-12) (Prerequisite: General Physical Education)

Life Long Fitness is designed for the non athlete who wants to develop a program of fitness activities that can be used throughout his/her life. The areas of concentration will be flexibility, cardiovascular fitness, muscle strength, and nutrition.

Strength/Conditioning for Athletes – One trimester (9-12) (Prerequisite: General Physical Education)

This course is designed for the high school athlete. Student/athletes will develop advanced athletic skills to improve sports performance. Emphasis will be on extensive muscular strength, cardiovascular performance, agility training, and specific skills for individual sports. Student/athletes will have the opportunity to train for their specific high school sports during this class.

Advanced Physical Education – One trimester (9-12) (Prerequisite: General Physical Education)

Advanced Physical Education is designed to develop advanced skills and knowledge in team and individual sports, physical fitness, recreational activities, and health. Only those truly interested in physical activity should elect this class. An important goal of this class is to develop desirable safety habits, leadership qualities, and provide leisure time activities.

SCIENCE DEPARTMENT

Biology 1 - One trimester (9) (No prerequisite)

This course explores the microscopic aspects of life science. Topics include the chemistry of life, cells (structure, function, energy and reproduction), and protein synthesis.

Biology 2 – One trimester (9) (Prerequisite: Biology 1)

This course explores the macroscopic aspects of life science. Topics include genetics, evolution and classification, viruses and bacteria, plants, body systems and ecology.

Chemistry 1 – One trimester (10) (Prerequisites: Biology 1 & 2)

This course will cover topics including molecular entropy, exothermic and endothermic reactions, naming and writing formulas for binary compounds, atoms and the periodic table, chemical and physical changes, acids, bases and solutions.

Physics 1 – One trimester (10) (Prerequisites: Biology 1 & 2)

This course will cover topics in force, motion, waves, energy, nuclear energy, and electricity.

Earth Science - One trimester (11) (Prerequisites: Biology 1 & 2, Chemistry 1 and Physics 1)

This course will include the topics of the Earth's interior, advanced rock cycle, Earth systems, plate tectonics, climate, space science, geologic time and dating.

Chemistry 2 – One trimester (10-11) (Prerequisites: Chemistry 1 & Physics 1)

This course will cover topics that include chemical potential energy, breaking chemical bonds, electron movement, nuclear stability, Hess's Law, enthalpy and entropy, molecular and empirical formulas, molecular polarity, ideal gas laws, electron configurations and redox reactions.

Physics 2 – One trimester (10-11) (Prerequisites: Chemistry 1 & Physics 1)

This course will include topics and calculations involving motion, forces, vectors, electricity, and wave interactions. The following mathematical skills are considered pre-requisites: algebraic manipulations, quadratic functions, and some trigonometric functions.

Environmental Science – One trimester (10-12) (Prerequisites: Biology 1 & 2)

This course will allow students to take a close look at their environment and environmental issues that are relevant to today's society. This course will be primarily a hands-on field experience.

Anatomy and Physiology – One trimester (10-12) (Prerequisites: Biology 1 and Biology 2 with a “C” average or better.)

This course will be an in-depth exploration of the human body. Dissection and laboratory activities will be an integral component of this course.

Introduction to Astronomy – One trimester (11-12) (Prerequisites: Algebra 2, Biology 1 & 2 and Earth Science. The student must have achieved a “C” or better in Earth Science and Algebra 2.)

Astronomy is an upper level science course. Topics covered will include gravity and motion, light and atoms, distance, velocity, time, backyard astronomy, telescopes, the moon, the solar system, meteors, asteroids, comets, the sun, stellar evolution, measuring the properties of stars, galaxies and cosmology.

Introduction to Zoology – One trimester (9-12) (No prerequisite)

The Zoology course will involve the study of the structure and bodily functions of animals, their habits, where and how they live, their relationship with another and with their environment, their classification, and many other features. This course will focus, for the most part, on vertebrates.

Advanced Placement Biology – Three trimesters (11-12) (Prerequisites: Biology 1 & 2, Chemistry 1 and Physics 1. Must have earned a “B+” or better in Biology.)

A.P. Biology is a rigorous, college-level course designed to cover the same topics that would be taught during a first year college Biology course. Throughout the year, students will prepare to take the A.P. Biology Exam in May. Topics covered will include molecules, cells, heredity, genetics, evolution, biodiversity, structure and function of organisms, and ecology. Laboratory exercises and writing skills will be emphasized.

Advanced Placement Chemistry – Three trimesters (11-12) (Prerequisites: Biology and “B” average in Chemistry 1 and Chemistry 2.)

AP Chemistry is a college level chemistry course which will extend and expand the students knowledge of concepts learned in Chemistry 1 and Chemistry 2.

SOCIAL STUDIES DEPARTMENT

World History/Geography – Two trimesters (9) (No prerequisite)

This course is designed to give students a geographical, historical, economic and governmental perspective on world cultures. Taken during the freshmen year of high school, this course will prepare students for the state assessment in Social Studies.

U.S. History – Two trimesters (10-12) (World History/Geography)

This course will trace American History from the post Reconstruction Era through the 1960s. The class will focus on the American West, big business, urban America, World War I, the 1920s, 1930s, World War II, the 1950s with an emphasis on the Cold War and the 1960s.

American Government – One trimester (11-12) (No prerequisite)

Studies include foundations of American government, the three branches of the U.S. Government, rights and responsibilities of the free people, political parties, elections, personalities of the government, and how current events are related to each of these topics.

Economics – One trimester (11-12) (No prerequisite)

This course is the study of macroeconomics (aggregate issues) and microeconomics (elements of economics). Topics covered include: market structure and free markets, supply and demand, financial markets, income distribution, poverty, taxation, GDP, the government’s role in the economy, monetary and fiscal policy and globalization. These concepts will be used to develop an understanding of modern day economic problems.

Advanced Placement U.S. History – Three trimesters (10-12) (World History/Geography)

The AP program offers courses of an accelerated nature, and is designed to prepare students for the AP test in May. Students who receive successful scores on this test may earn college credits for their achievement. Non-traditional activities abound, but discussion and participation are a must. These activities include mock trials, debates, simulations, analyses of film, art, architecture and a vast array of exercises aimed at the stimulation of critical thinking skills. There is a determined focus on the analysis of primary source documents and essay writing.

World Geography - One trimester (10-12) (No prerequisite)

This course examines world geography and its implications and use in the modern world. The five themes of geography are an integral part of the study. Ongoing use of these themes will help to broaden the student’s global knowledge and understanding. Special attention will be given to the physical, cultural and political geography of the seven continents and four oceans.

Global Issues – One trimester (10-12) (No prerequisite)

This is a survey course that focuses on contemporary global concerns. The course puts emphasis on social, geographic, cultural and scientific changes that affect the world. Some of the topics to be covered are controversial. This course is bound to be exciting and thought provoking.

Psychology - One trimester (11-12) (No prerequisite)

This college preparatory course focuses on the study of individual behavior. Special attention is given to explaining what psychology is and how it is used in our complex modern world. Students will study psychology as a science and explore various theories in the areas of physiology, sensation, perception, consciousness, learning, memory, cognition and intelligence. Students will also explore the following topics: infancy, childhood, adolescence, adulthood, motivation, emotion, personality, stress, abnormal behavior, therapies, and social psychology.

Advanced Placement Psychology - Three trimesters (11-12)

This course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Also, students will learn about the ethics and methods psychologists use in their science and practice.

Sociology/Contemporary American History - One trimester (11-12) (No prerequisite)

This course is based on the study of the structures and forces that shape society. Social life, social causes and consequences will be defined and analyzed. Sociological perspective will be encouraged such that a college bound student attains a survey-based knowledge of their social science upon completion of the course.

Holocaust – One trimester (10-12) (No prerequisite)

This course examines those relationships and organizations that led to prejudice, ethnic cleansing and mass murder using the Holocaust as the most unique example of prejudice in human history.

History Through Multi-Media (Film and Music) – One trimester (10-12) (No prerequisite)

A comparative study of key events throughout history, and how the motion pictures and music depicted them. This course will be a contemporary study of history by reflecting on music and film's influence on sociological, cultural, and historical perspectives. This course will examine recent history while reflecting on different musical genres that have influenced history. This course will study events from different decades and look at how mass media has been an integral part of shaping those events.

MISCELLANEOUS

Dual Enrollment (11-12) (Prerequisite: See description below)

A student may enroll in a college or university prior to graduating from high school under the State of Michigan's dual enrollment legislation. *In order to take courses as part of dual enrollment, a student must have taken the Michigan Merit Exam and/or the PSAT (and scored at the appropriate level), and met all other qualifications set forth by the Michigan Department of Education.* The student may take academically rigorous courses not offered by the home school or cannot be taken due to a scheduling conflict beyond the student's control. Any student who takes college courses in a dual enrollment program may do so as part of their Otsego High School schedule. Otsego Public Schools in compliance with current legislation pays tuition (to be capped at 7% of the per-pupil student aide) or fees associated with these courses. In general, a course taken at the community college level would be paid for by the school district, while a more expensive course at a four-year university will require costs to be supplemented by the student/family. Materials, such as textbooks, are the responsibility of the student and his or her family. Any student who wishes to dual enroll must complete an Otsego High School Dual Enrollment form by May 1, prior to the school year in which the student wishes to take college coursework. It is understood that any course taken as part of dual enrollment and its accompanying grade will appear on the student's transcript and the grade will count toward the student's grade point average.

Career Exploration - One trimester (12) (No prerequisite)

This course is designed to allow students an opportunity to spend one trimester in an unpaid job related to their career pathway. Any student wishing to participate in career exploration must complete an application (available in the Guidance Office) prior to the school year in which they wish to have the experience. Students must provide their own transportation to any off-site placement.

Junior Seminar – One trimester (11) (No prerequisite)

This second trimester course will help junior students focus on test preparation skills to help them prepare for the Michigan Merit Exam and will allow students opportunities to explore options for post-high school plans. The class will offer instruction on how to improve ACT and MME scores, and will help students plan for college or for employment after graduation from high school. Students will also develop interview skills and learn how to best represent themselves on college and employment applications. Career and college search will be an integral part of the course. This is a one-trimester elective and is strongly encouraged for any juniors who are considering any post-secondary training.

Special Education (9-12)

This is a special program which is open to students with qualifying special learning needs. Eligibility is based upon recommendation by the Individualized Educational Planning committee after individual testing. The school day will consist of regular classes and/or Special Education classes mixed. The program is very flexible and meant to be altered to meet the particular need of the individual student. Students are expected to meet the school requirements for graduation.

Allegan Technical & Education Center - Program Offerings

Program
Building Trades
Medical Assisting
Criminal Justice
Legal Assistant
Medical Office
Diesel Technology
Computer Aided Design (CAD)
Electro-Mechanical Technology
Floral Design / Vet and Aquarium
Landscaping / Greenhouse
Building & Grounds Plus
New Media
Culinary Arts
Business Connections
Automotive Technology
Information Technology
Machine Tool
Welding
Cosmetology
Early Childhood / Teacher Cadet

Please refer to the ACATEC Program Guide for more specific information about these courses.