

**ADDISON
HIGH SCHOOL
COURSE DESCRIPTION GUIDE
2023-2024**

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Vision Statement

The vision of Addison Community Schools is to prepare confident students in making positive contributions to the global society and the community in which they live.

Mission Statement

The mission of Addison Community Schools is to provide a well-balanced curriculum and learning environment, supplemented by enriching experiences in order for all learners to be successful.

Beliefs

- A strong, well-rounded academic and extracurricular program is imperative for high student achievement
- A safe, orderly, and predictable environment that is also enjoyable promotes learning
- Having a balance between maintaining a solid foundation of technology with being on the cutting edge promotes high student engagement in learning
- Building a culture of collaboration and providing frequent and timely communication among all stakeholders, will create meaningful partnerships between the school and community
- All children and families have the right to effective instruction, and the responsibility to learn, progress, and experience success

To Our Students

One of the most important decisions you make each year in high school is the selection of your course of study. By selecting the appropriate classes and then putting forth the maximum effort in learning, you will begin to reach your educational potential.

Please, seriously consider the decisions you make regarding course selection. Seek information from the Course Guide, Counselor, Principal, teaching staff, and parents to help you in this process. You should select the best course of study to meet your educational needs.

The entire high school staff wishes you the best during this course selection process and hope your years at Addison High School are rewarding, happy, and successful.

Best wishes as you strive for academic excellence.

Julie Yeider



Arts & Communications



Health Sciences



**Engineering/
Manufacturing &
Industrial Technology**



**Business, Management,
Marketing & Technology**



**Natural Resources &
Agriscience**



Human Services

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Graduation Requirements

Students must fulfill all credit and course requirements for the year in which they graduate. The requirements for receiving a diploma and participating in commencement from Addison High School are as follows:

2024	2025	2026
Total earned credits: 25	Total earned credits: 25	Total earned credits: 25

In addition to the minimum total of earned credits, the following department requirements must be met:

English (4 units of credit)

1. English 9 1.0
2. English 10 1.0
3. English 11 or College English 11 1.0
4. English 12 or College English 12 1.0

English (4 units of credit)

1. English 9 1.0
2. English 10 1.0
3. English 11 or College English 11 1.0
4. English 12 or College English 12 1.0

English (4 units of credit)

1. English 9 1.0
2. English 10 1.0
3. English 11 or College English 11 1.0
4. English 12 or College English 12 1.0

Mathematics (4 units of credit)

1. Algebra 1 or both Algebra A and B (2 credits) 1.0
2. Geometry 1.0
3. Algebra 2 or both Algebra 2 A and B (2 credits) 1.0
4. One math course in the final year of school 1.0

Mathematics (4 units of credit)

1. Algebra 1 or both Algebra A and B (2 credits) 1.0
2. Geometry 1.0
3. Algebra 2 or both Algebra 2 A and B (2 credits) 1.0
4. One math course in the final year of school 1.0

Mathematics (4 units of credit)

1. Algebra 1 or both Algebra A and B (2 credits) 1.0
2. Geometry 1.0
3. Algebra 2 or both Algebra 2 A and B (2 credits) 1.0
4. One math course in the final year of school 1.0

Science (3 units of credit)

1. Biology 1.0
2. Physics or Chemistry 1.0
3. Science elective 1.0

Science (3 units of credit)

1. Biology 1.0
2. Physics or Chemistry 1.0
3. Science elective 1.0

Science (3 units of credit)

1. Biology 1.0
2. Physics or Chemistry 1.0
3. Science elective 1.0

Social Studies (3 credits)

1. US History 1.0
2. World History 1.0
3. Civics 0.5
4. Economics 0.5

Social Studies (3 credits)

1. US History 1.0
2. World History 1.0
3. Civics 0.5
4. Economics 0.5

Social Studies (3 credits)

1. US History 1.0
2. World History 1.0
3. Civics 0.5
4. Economics 0.5

Health 0.5

Physical Education 0.5

Health 0.5

Physical Education 0.5

Health 0.5

Physical Education 0.5

Visual, Performing, Applied Arts: (Art 1, Art 2, Band, Choir, Music Appreciation), vocational education or practical arts, or any combination thereof. 1.0

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Visual, Performing, Applied Arts: (Art 1, Art 2, Band, Choir, Music Appreciation), vocational education or practical arts, or any combination thereof. 1.0

Languages other than English 2.0
Begins with students entering 3rd grade in 2006. Credits earned in grades 9-12 OR an equivalent learning experience in grades K-12

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Online Learning Experience Online

Online Learning Experience

Online Learning Experience Online learn-

required credits. 4

learning experience-Online course or learning experience or online experience incorporated into each of the required credits.

Online learning experience-Online course or learning experience or online experience incorporated into each of the

ing experience-Online course or learning experience or online experience incorporated into each of the required credits.

		required credits. 4			

GRADE 9

- 1 Credit English 9
- 1 Credit Algebra 1, or Geometry
- 1 Credit Biology or Chemistry
- 1 Credit US History
- .5 Credit Health
- .5 Credit Physical Education
- 2 Credit Computers, Spanish, Visual, Performing or Applied Arts or other elective

GRADE 9

GRADE 10

- 1 Credit English 10
- 1 Credit Algebra 1, Geometry, Algebra 2
- 1 Credit Biology, Chemistry, or Physics
- 1 Credit World History
- 3 Credit Spanish 1, Spanish 2, Visual, Performing, or Applied Arts, or other elective

GRADE 10

GRADE 11

- 1 Credit English 11 or College English 11
- 1 Credit Geometry, Algebra2, Pre-Calc, or Statistics
- 1 Credit Chemistry, Physics, Zoology, Geology, or Biology 2
- 1 Credit Civics (Government) / Economics
- 3.Credits Career & Technical Electives, Spanish 1, Spanish 2, Spanish 3, Visual, Performing or Applied Arts, or other electives

GRADE 11

GRADE 12

- 1 Credit English 12 or College English 12
- 1 Credit Algebra 2, Pre-Calc, Statistics, Senior Finance, Geometry, or math related elective
- 5.Credits Career & Technical electives, Spanish 2, Spanish 3, Spanish 4, Visual, Performing or Applied Arts or other

GRADE 12

Sample Student Schedule for 2023-2024

Freshman		Sophomore		
Period	Semester 1	Semester 2	Semester 1	Semester 2
1	Seminar	Seminar	Seminar	Seminar
2	English 9A	English 9B	English 10A	English 10B
3	Band	Band	Band	Band
4	Algebra 1A	Algebra 1B	Geometry A	Geometry B
5	Biology A	Biology B	Web Design	Elective
6	PE/Health	Elective	World History A	World History B
7	US History A	Us History B	Chemistry A	Chemistry B
8	Spanish A	Spanish B	Elective	Elective

Junior		Senior		
Period	Semester 1	Semester 2	Semester 1	Semester 2
1	Seminar	Seminar	Seminar	Seminar
2	Vocational Tech	Vocational Tech	Vocational Tech	Vocational Tech
3	Vocational Tech	Vocational Tech	Vocational Tech	Vocational Tech
4	Vocational Tech	Vocational Tech	Vocational Tech	Vocational Tech
5	English 11A	English 11 B	English 12A	English 12B
6	Algebra 2 or Pre-Calculus	Algebra 2 or Pre-Calculus	Senior Finance A	Senior Finance B
7	Civics	Economics	Elective	Elective
8	Science Elective	Science Elective	Invertebrate Zoology	Vertebrate Zoology

Plan Ahead - Plan well the first two years of high school so that Lenawee Technical programs, Co-Op, Work Experience, and Dual Enrollment* are available to you.

*You may not dual enroll in a class if it is offered at Addison High School and you have finished all of the related classes here. Addison High School does not pay enrollment tuition for a class already taken at the high school.

Michigan Merit Curriculum Modification

Personal Curriculum

The parent or legal guardian of a student may request a personal curriculum that modifies certain requirements of the Michigan Merit Standard requirements. The personal curriculum must be developed by the student, at least one of his or her parents or his or her guardian, and his or her high school counselor or other designee selected by the high school principal. Revisions to a personal curriculum may be made if developed and agreed to in the same manner as the original personal curriculum.

The personal curriculum must incorporate as much of the subject area content expectations of the Michigan Merit Standard as is practicable; establish measurable goals that the pupil must achieve while enrolled in high school; provide a method to evaluate whether he or she met those goals; and be aligned with the pupil's educational development plan.

The pupil's parent or legal guardian and the principal must agree to the personal curriculum before it takes effect. If a student is at least 18 or is an emancipated minor, he or she may act on his or her own behalf under these provisions. The parent or guardian must be in communication with each of the student's teachers at least once each calendar quarter to monitor the student's progress toward the goals in his or her personal curriculum.

Special Education Accommodations

If a student receives special education services, his or her individualized education program (IEP) will identify the supports, accommodations, and modifications necessary to allow him or her to progress in the curricular requirements, or in a personal curriculum and meet the requirements for a high school diploma.

Michigan Merit Curriculum Personal Curriculum Modifications Options

Graduation Requirement	Personal Curriculum (Modification)	
English 1. English 9 2. English 10 3. English 11 or College English 11 4. English 12 or College English 12	4 Credits	No modifications
Mathematics 1. Algebra 1 or Algebra A/B (2 credits) 2. Geometry 3. Algebra 2 or Algebra 2 A/B (2 credits) 4. One math course in the final year of school	4 Credits	All students: Complete at least 3.5 math or math-related credits Complete a math or math-related credit in the final year Algebra 2 modification options: Complete 2.5 credits including .5 credit of Algebra 2 OR Complete a two year Career and Technical education curriculum which includes .5 credit of Algebra 2 content OR Complete Algebra 2 over 2 years with credit given each year
Science 1. Biology 2. Physics or Chemistry 3. Science elective	3 Credits	No modification
Social Studies 1. US History & Geography 2. World History & Geography 3. Civics (Government) (.5 credits) 4. Economics (.5 credits)	3 Credits	No modification for Civics 2 credits must be earned Modified only if student takes additional credit(s) beyond the required credit in English Language Arts, Math, Science, or Languages other than English
Physical Education and Health	1 Credit	Modification only if student takes additional credit(s) beyond the required credits in English Language Arts, Math, Science or Languages other than English
Visual, Performing, Applied Arts	1 Credit	Modification only if student takes additional credit(s) beyond the required credits in English Language Arts, Math, Science or Languages other than English
Languages other than English Begins with students entering 3rd grade in 2006- Credits earned in grades 9-12 OR an equivalent learning experience in grades K-12 Second year of foreign language can be substituted by CTE/LISD Tech center classes.	2 Credits	No modification
Online learning experience —Online course or learning experience or online experience is incorporated into each of the required credits		No modification

Timelines

Students should work closely with their parents, teachers, and counselor to follow the suggestions outlined below. For additional help, students and parents are encouraged to contact the counselor.

Grade 9

- Select classes that match your career interest.
- Learn about the extra-curricular activities you can become involved in.
- Work to your academic potential. Remember your semester grades and attendance become part of your permanent record.
- Make daily attendance a priority!
- Discuss your future goals with your counselor.
- Update your Educational Development Plan (EDP).
- Investigate summer enrichment programs.
- All students will take the PSAT in the spring.
-

Grade 10

- Students have an option to take a PLAN test in the fall. This is the determinant of your academic skills and career interests and eligibility for dual enrollment.
- Keep your grades up so you can have the highest GPA and class rank possible.
- Look at challenging course options for your junior year including higher levels of math, science, social studies and English.
- Attend the Sophomore Visitation at the Vo-Tech Center and consider a class for next year.
- Update your Educational Development Plan (EDP).
- Investigate summer enrichment/employment opportunities.
- Athletes should learn the NCAA academic eligibility requirements and take classes to meet them.

Grade 11

- Attend the College/Trade & Tech Night in the fall.
- Speak with representatives from post-secondary schools that visit AHS.
- Find out the entry requirements for post-secondary schools and select your classes to meet those requirements. Update your EDP.

Grade 11 (continued)

- Find extra-curricular activities to become involved in.
- Find a volunteer opportunity in a career field that interests you.
- If you plan to continue your education after graduation, visit the campuses of your top five post-secondary schools.
- Students not planning to attend a post-secondary school should investigate the job market, military options, or apprenticeship programs.
- [Take the SAT course preparing them for the SAT and M-Step assessments](#)

Grade 12

- Continue to work on your grades and extra-curricular activities. Make sure you have the courses required for graduation. Meet with your counselor to review requirements and post-secondary plans.
- Re-take the SAT off campus, if necessary.
- Athletes planning to compete at a Division I or II college should file a NCAA Clearinghouse form at the beginning of their senior year.
- Check regularly in the counseling office for new scholarship information.
- Obtain applications from the counselor, by mail, or via the Internet from post-secondary schools that interest you. Complete and mail them before Thanksgiving.
- Attend the Financial Aid Night in November for information on applying for aid.
- Complete and send the FAFSA application by the February due date.
- Review your EDP to see if there is anything more you can add. Use the information to build your resume.
- Complete local scholarship applications in January, February, and March.
- Compare financial aid packages from post-secondary schools to which you have been accepted.
- Maintain good attendance and grades.
- Congratulations! You are about to begin the greatest

Valuable Websites for Careers and Education

www.collegeview.com

This site contains a college search, career information, and financial aid possibilities.

www.mois.org

This site is the Michigan Occupational Information System which reviews over 2000 careers.

www.careermag.com

This site contains up-to-date information on careers, career searches and articles relating to finding and keeping a good job.

www.finaid.com

This site contains a variety of information on calculating costs, scholarships and grants, scams, and other searches.

www.fafsa.ed.gov

Official site of the Free Application for Federal Student Aid (FAFSA). This site contains frequently asked questions and a guide to completing the form. The document can be downloaded and filed electronically.

www.petersons.com

This site is the Peterson's Education Center. It contains general information about colleges, careers, and distance learning.

www.MI-StudentAid.org

This site is the MI-SEARCH guide for searching for scholarships and financial aid.

www.ed.gov/funding.html

This site is a student guide to education funding.

www.ed.gov/inits/hope

This site provides information about HOPE and lifetime learning tax credits.

www.msfaa.org

This site offers information on financial aid, links to state and federal aid, and links to Michigan colleges and universities.

EDP On-Line

An Educational Development Plan, (EDP), helps students identify career goals, lists the interests and skills needed to meet those goals, and documents the experiences, education, and accomplishments needed to successfully attain them.

Local schools in the Hillsdale-Jackson-Lenawee Intermediate School Districts use the web-based EDP to facilitate career planning and course selection. Students are able to complete and update their EDP to facilitate career planning and course selection. Students are able to complete and update their EDP anywhere via the Internet. This on-line tool is confidential and secure because students must enter personal student ID's and passwords to access the system. No personal information is entered. Students may print out a copy of their EDP to review at any time.

ENGLISH

English 9 A-B

Applicable Grades: 9



Credits: 1

Course Length: 2 Semesters

Type of Course: Required

A=Students will be reading, writing and discussing many genres of the language, including grammar, short story, poetry, drama and others. Focus will be on short stories and *To Kill A Mockingbird*.

B=Students will be reading, writing and discussing many genres of the language, including grammar, short story, poetry, drama and others. Focus will be on *The Odyssey* and *Romeo & Juliet*.

English 10 A-B

Applicable Grades: 10



Credits: 1

Prerequisite: English 9

Type of Course: Required

A=Students will be reading, writing and discussing many genres of the language, including grammar, short story, poetry, drama and others. This class is an extension of what the students learn in English 9A&B, with a more in depth look at the terms and ideas using different material. Focus will be on *The Crucible* and *Of Mice and Men*.

B=Students will be reading, writing and discussing many genres of the language, including grammar, short story, poetry, drama and others. This class is an extension of what the students learn in English 10A. Focus will be on *Raisin in the Sun*, *Huckleberry Finn* and *Civil Disobedience*.

English 11 A-B

Applicable Grades: 11



Credits: 1

Course Length: 2 Semesters

Type of Course:

Required Prerequisite: English 10

A=Designed for non-college bound students this course will include short stories selected from American Literature. Essay writing will be taught with students practicing various forms of writing. Grammar, usage, mechanics and spelling skills will also be emphasized. Other literary works that will be studied in this course are *Hamlet* and *King Arthur and his Knights of the Round Table*.

B=This class is an extension of English 11B, with focus on *Fahrenheit 451* and *Lord of the Flies*.

English 12 A-B

Applicable Grades: 12



Credits: 1

Course Length: 2 Semesters

Type of Course: Required

A=This course includes units in writing a research paper, public speaking, short story analysis and other reading selections drawn from world literature. Focus will be on *Their Eyes Were Watching God*, *The Great Gatsby* and *1984*.

B=This class is an extension of English 12A, with focus on *Things Fall Apart* and *Animal Farm*.

Mythology

Applicable Grades: 9,10,11,12

Credits: 1

Course Length: 2 Semesters

Type of Course: Elective

Mythology includes learning about Greek, Roman, Egyptian and Norse culture by examining the myths and legends they believed in. This class will include all of the language arts criteria including: reading, writing, projects, speeches, research and discussion.

Creative Writing

Applicable Grades: 9, 10, 11, 12

Credits: 1

Course Length: 2 semesters

Type of Course: Elective

Creative Writing is intended for the student who has a serious interest in writing beyond the academic requirements of the other English courses. The student who selects this course should be prepared to write every day in a teacher-selected genre. Writing will include essays, short stories, poetry, children's literature, and drama. The student will also be reading portions written by famous authors such as Poe and Hemingway and discussing their writing styles. Students using peer editing will find their work much more readable for all. A rubric will be provided for each final assignment.

Literature in Film

Applicable Grades: 9, 10, 11, 12

Credits: 1

Course Length: 2 semesters

Type of Course: Elective

This course is designed to familiarize students with literature and film genres, terminology, and techniques. Socratic Seminars and general class discussions will center around themes and historical events relevant to the cultural and social settings of select works. While much of this course will focus on literature and its film counterparts, other mediums of communication (i.e. one-way audio, public speaking, social media, radio, etc.) may be studied as well.

FOREIGN LANGUAGE

Spanish 1 A-B



Applicable Grades: 9, 10, 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course: Elective

Spanish I is the beginning level Spanish course. Stress is placed on pronunciation, vocabulary, sentence building and verb usage. Verb tenses will include the present tense and familiar commands. Students are expected to be able to respond to familiar situations in Spanish such as telling time, counting, describing people and objects along with other survival topics. Students will learn about the culture of Spanish-speaking countries through videos, special projects, and classroom discussions.

Spanish 2 A-B



Applicable Grades: 10, 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course:

Elective Prerequisite: Spanish I

Spanish II stresses pronunciation, vocabulary building, and sentence/verb usage. The class builds on many of the topics covered in Spanish I. Students will increase their skills with the spoken and written language in the present tense. Vocabulary knowledge will be expanded and the past tense will be introduced. Special projects and classroom discussion will teach Hispanic culture.

BUSINESS AND COMPUTERS

Emerge with Computers



Applicable Grades: 9, 10, 11, 12

Credits: .5

Course Length: 1 Semester

Type of Course: Elective

This course will focus on Computer Concepts, Issues, and Skills meeting the Michigan Educational Technology Standards. Computer Concepts covered would include Digital Technology, Hardware, Software, Internet, Telecommunications, Information Security, Digital Media, Databases, E-commerce, and Business Systems. Issues discussed would include Intellectual Property Rights, Digital Life, Freedom of Speech, Privacy, Ethics, and Globalization. Skills would include Microsoft Office 2007, Google Docs, Professional Skills, Internet Skills, and Information Security Skills. In addition, career exploration and employability skills. Emphasis will be put on developing skills that will benefit students not only in high school, but also later in life, whether it is in college or on the job.

Graphic Design 1



Applicable Grades: 10, 11, 12

Credits: .5

Course Length: 1 Semester

Type of Course: Elective

These courses will focus on the digital design programs used in the graphics industry today: Adobe® Illustrator® CS4, Adobe® Photoshop® CS4, and Adobe® InDesign® CS4. The course will examine the essential features of each, then show in practical detail the skills and technology necessary for effective design for print and Web Media. Students will be given the opportunity to put what they learn to work by tackling design projects from concept to completion with assignments drawn from the everyday world of professional graphic designers.

Web Design 1



Applicable Grades: 10, 11, 12

Credits: .5

Course Length: 1 Semester

Type of Course: Elective

This course will focus on designing web sites using the open source content management system known as WordPress and using HTML Coding. You will be working with the ins and outs of WordPress and HTML Coding - learning the basics and working toward learning how to make WordPress or HTML Coding do what you want it to do. You will be designing small sites as you learn the features of WordPress and HTML Coding, along with designing/re-designing a website for a business and/or organization.

BUSINESS AND COMPUTERS (cont)

Marketing

Applicable Grades: 9, 10, 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course: Elective

Marketing addresses all the ways in which marketing satisfies consumer and business needs for products and services. Students develop an understanding of the functions of marketing and how these functional areas affect all businesses. They will learn basic marketing concepts and the role of marketing in our economy. Students also develop skills in applying economic concepts to marketing, distribution and logistics, marketing information management, finance in marketing, product/service planning, pricing mixes, promotional strategies and personal selling. In order to increase the number of application experiences, students could participate in – DECA An Association of Marketing Students.

FINE ARTS

Foundations in Art

Course Length: 2 Semesters

Credits: 1

Applicable Grades: 9, 10, 11, 12

Type of Course: Elective

Students will further investigate the elements of art and principles of design in a foundational skills course that will introduce students to the materials, techniques, concepts, and processes essential to understanding the visual arts and the role of the artist, through a series of readings, research, class critiques, and projects. This course will be structured as two marking periods of 2D design, 1 marking period of 3D design, and 1 marking period of Art History.

Yearbook

Applicable Grades: 11, 12



Credits: .5- 1.0

Course Length: 1-2 Semesters

Type of Course: Elective

Students will learn the basics of writing, interviewing, graphic works, layout, and production. Students will regularly produce the student newspaper in addition to other projects. Meeting deadlines is a requirements. A strong background in writing is recommended. Permission of the instructor or principal is required.

Photography

Course Length: 1 Semester



Credit: .5

The students will learn basic photography techniques through the use of film. They will learn to develop their own film in the darkroom, make prints through the use of an enlarger, and start to develop their own body of black and white photography work.

Ceramics

Course Length: 1 Semester



Credits: 0.5

The student will learn how to hand build both functional and non-functional projects through the use of clay. The student will also be introduced to wheel thrown pottery.

Ceramics 2

Course Length: 1 Semester



Credits: .5

The student will study how to make wheel thrown pottery. They will begin to develop a body of work to further master in the Independent Art course.

Basic Design

Course Length: 1 Semester



Credits: .5

Basic Design is a foundation level class structured to introduce students to the visual elements and principles of design, art history, and careers in art. Students will be expected to apply the concepts learned from the lectures and demonstrations to create 2-dimensional and 3-dimensional visual compositions.

Painting 1

Course Length: 1 Semester



Credits: .5

Basic Painting is for students that would like to learn intermediate painting skills beyond the Foundations course. Students who take Basic Painting will develop mastery of basic and advanced color theory as well as a variety of media. The course will cover the following: Color Theory, Color Theory Application, Painting, Introduction to Acrylics, Introduction to oils, and an introduction to watercolor. The student will begin to explore photo-realism painting, abstract, and non-representational painting.

Painting 2

Course Length: 1 Semester



Credits: .5

Painting 2 is for students who have a basic understanding in painting, have a great interest in exploring further techniques while focusing on their own individual style and technique. The student will have an opportunity to study their preferred media at a more

Drawing 1

Course Length: 1 Semester



Credits: .5

Basic Drawing will enable the student to improve their drawing and rendering skills with a variety of methods and techniques explored. The Basic Drawing course will explore the following media/subject matter: Perspective Review (one and two-point), Contour Drawing, Shading/Gradation, Compositional Still-life, Gesture Drawing, Portraiture, Pen and Ink.

Drawing 2

Course Length: 1 Semester



Credits: .5

Advanced Drawing students want to be challenged. The course is designed for serious art students desiring post-secondary study in art who would like to explore their creative limits in the rendering method. Students will create portfolio quality work for college admission and/or scholarship consideration. The course will cover the following: Exploratory Gestural Drawing, Large-Scale Drawing, Experimental Drawing, Thematic Drawing (emotion, opinion, etc.) Mixed Media, and Portfolio Development.

FINE ARTS (Cont.)

Printmaking



Course Length: 1 Semester

Credits .5

Printmaking- This course introduces the concepts of traditional printmaking processes. These processes include mainly relief, screen-printing, calligraphy, and monotype. Students will study and create examples of these processes by carving images, making t-shirts, wood burning, and collage.

Theater

Applicable Grades: 9, 10, 11, 12

Credits: .5

Course Length: 1 Semester

Type of Course: Elective

This course is designed to help students learn about theater production. Students are required to participate in a theater production each semester.

Music Appreciation



Applicable Grades: 9, 10, 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course: Elective

This course is designed to give students an understanding of our musical culture. As part of the class, students will learn compositional techniques employed by composers, basic music theory and its application, have the opportunity to improvise and work within genres, learn form and analysis, and explore and identify the influences that have led to the music of today. Many genres of music will be presented including rock, jazz, classical, world, and other music through lecture, multi-media presentations, concert footage, and projects.

Band



Course Length: 1-2 Semesters

Credits: .5-1.0

This course is designed to give each band member a chance to perform publicly in an environment conducive to learning, growing, and music making. Students will play from a varied repertoire for four complete concert cycles--marching band, winter concert, festival, and the spring concert. In addition, students will learn basic music theory, its applications, and develop their musicianship so that they can become an independent musician capable of further study and performance on their instrument and/or other instruments. The first trimester will be primarily marching band with the second and third trimesters being primarily concert band.

Chorus/Choir



Course Length: 1-2 Semesters

Credits: .5-1.0

This course is designed to help students learn to sing in group and solo setting. The class will have the following general purposes: To help students learn to sing and perform as a group. To help increase students' knowledge in a variety of choral styles. To increase knowledge of note reading and sight singing. To increase knowledge of music theory and music history. To improve students' performance skills

Radio Broadcasting



Course Length: 1-2 Semesters

Credits: .5-1

Radio broadcast is an elective class that teaches students how to operate and broadcast live on air at Addison's radio station WQAR, 95.7. Students will learn the operations of the mixing board, microphones and playlists of the station. They will also be instructed in disc jockey and live on-air techniques, which they will demonstrate during broadcasts. Students will be expected to go live on-air during class times and will also be required to broadcast a minimum of 4 hours per semester after school hours. Students taking the course more than one semester can learn advanced broadcasting techniques. Radio broadcasting is a unique experience for Addison students as we are currently the only radio station operating in Lenawee County schools.

MATHEMATICS

Algebra 1 A-B

Applicable Grades: 9, 10



Credits: 1

Course Length: 2 Semesters

Type of Course: Required

A=Introduction to expressions, equations and function notation. Discussing a variety of ways to represent functions. Review of operations involving integers and the distributive property. Finding square roots and comparing real numbers. Solving a variety of linear equations. Review of ratios, proportions and percent's. Graphing and writing linear equations using tables, slope-intercept form, point-slope form and intercepts. Interpreting slope and modeling direct variation . Know the attributes of parallel and perpendicular lines. Construct a line of best fit and use that line to predict values. Write, solve and graph linear and absolute value equations and inequalities. Solving linear systems using substitution, elimination and graphing

B=Define and use properties of exponents. Write and graph exponential growth and decay functions. Apply operations to polynomials. Factor polynomials. Graph and solve quadratic functions. Graphing and solving radical equations. Introduction to probability and data analysis

Geometry-A-B

Applicable Grades: 9, 10, 11, 12



Credits: 1

Course Length: 2 Semesters

Type of Course: Required

A=Revisit basic geometric concepts (ie. Points, lines, rays). Use basic formulas: midpoint, distance, perimeter, area and circumference. Use postulates, theorems and definitions to perform inductive and deductive reasoning and proofs.

Solve multi-step problems and construct proofs involving vertical angles, linear pairs of angles, supplementary, complementary and right angles. Solve multi-step problems and construct proofs involving corresponding angles, alternate interior angles, alternate exterior, and same-side (consecutive) interior angles. Use multiple theorems and postulates to prove triangle congruence. Finding and interpreting centers of triangles. Explore similarity using ratios and proportions and apply to triangles

B=Explore right triangles using Pythagorean Theorem and trigonometric functions. Discuss and investigate various types of quadrilaterals including theorems and corollaries pertaining to properties, similarities and differences. Perform transformations with vectors, algebra and matrices. Perform reflections, rotations and dilations using algebra, drawing tools, technology and matrices. Investigate aspects of circles by drawing tangents to circles. Use arc of circles, lengths of chords, secants and tangents to describe and explore relationships with circle. Use formulas for area of triangles, parallelograms, trapezoids, and other polygons. Use ratios to find similar polygons and missing lengths. Derive a formula for the area of a regular polygon. Use lengths and areas to calculate probability. Identify and name solids. Relate the number of faces, vertices, and edges of solids. Find the surface area and volume of prisms, cylinders, cones, pyramids, spheres and composite solids.

Senior Finance



Applicable Grades: 12

Credits: 1.0

Course Length: 2 Semesters

Type of Course: Elective

This course is designed for students interested in learning how to deal with real life financial situations. Time is spent covering situations that students will encounter as consumers in the near future. With the help of speakers from the community, and textbooks, the course will cover topics on how to find and get a job, the aspects of money and banking management, buying and maintaining a car and a home, figuring taxes, insurance and investments, and budgeting one's money. The class will also cover ratios and proportions, scientific notation, problems with powers, and the use of formulas to solve problems.

Algebra 2



Applicable Grades: 10, 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course:

Required Prerequisite: Algebra I and Geometry

A=Review equations and inequalities incorporating problem solving strategies and models. Determine if a relation represents a function and identify the domain and range of the function and represent using symbols, graphs, tables, diagrams and words. Solve a variety of quadratic functions by graphing, factoring, and the Quadratic Formula. Perform operations on complex numbers. Determine even and odd functions and the end behavior of polynomials. Perform operations on polynomials. Introduce and apply properties to rational exponents. Perform function operations and composition. Understanding the relationship of a function and its inverse.

Graphing and solving radical equations. Expand on exponential growth and decay functions. Graph, solve and apply the properties of logarithms.

B=Model inverse and joint variation. Graph rational function and identify key characteristics such as domain, range and asymptotes. Use right triangle trigonometry to solve right triangles. Convert between degree and radian measure. Understand the relationships of the values associated with the unit circle. Use inverse trigonometric functions to equations. Apply the Law of Sine's and the Law of Cosines. Graph and transform trigonometric functions. Graph and write equations of conic sections including circles, parabolas, ellipses, hyperbolas and apply basic transformations. Find measures of central tendency and analyzing the spread of the data. Introduce the normal and binomial distributions and sampling. Introduction to combinations permutations and probability. Introduction to sequences and series including notation and problem solving

Pre-Calculus

Applicable Grades: 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course:

Elective Prerequisite: Algebra I, Geometry, and Algebra 2

This college prep course will take an in-depth look at functions and their graphs. Functions covered will include polynomial, rational, exponential, logarithmic, and trigonometric functions. It will also include a study of vectors, parametric equations, polar coordinates, and limits.

MATHEMATIC (Cont.)

Statistics A-B



Applicable Grades: 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course: Elective

Prerequisite: Algebra 2

This course covers the nature of statistics and how to collect, analyze, and present data scientifically. It also covers the rules and distributions of probability. Students will then use this knowledge to do hypothesis testing as a final class project.

Accounting: I



Applicable Grades: 10, 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course: Elective

This class is an introduction to basic accounting terminology and practices, including computer accounting techniques. This class has proven to be an excellent stepping-stone to further study and a career in accounting. Upon successful completion of this course each student will have the knowledge to maintain personal financial records or the records of a small business. Each student is provided with practical accounting experience by completing two self-paced computer business simulations.

Sport Analytics and Statistics

Applicable Grades: 10, 11

Credits: .5

Course Length: 1 Semester

Type of Course: Elective

Sports analytics refers to the use of data and quantitative methods to measure performance and make decisions to gain advantage in the competitive sports arena. This course is designed to help students to develop and apply analytical skills that are useful in many high paying careers, using sports as the application area. These skills include critical thinking, mathematical modeling, statistical analysis, predictive analytics, game theory, optimization, and simulation.

Basic statistical concepts and methods are presented in a manner that emphasizes understanding the principles of data collection and analysis rather than theory. Much of the course will be devoted to discussions of how statistics is commonly used in the real world. There are two major parts to this course:

I Data – which includes graphical and numerical summaries to describe the distribution of a variable, or the relationship between two variables, and data production to learn how to design good surveys and experiments, collect data from samples that are representative of the whole population, and avoid common sources of biases.

II Probability and Inference – using the language of probability and the properties of numerical summaries computed from random samples, we learn to draw conclusions about the population of interest, based on our random sample, and attach a measure of reliability to them

MATH (Cont)

Quantitative Reasoning and Statistics

Applicable grades: 10,11,12

Credits: .5

Course Length: 1 Semester

Type of Course: Elective

This one semester course will help prepare students for the workforce, trade school or pursuing a certificate or degree from a non-four year institution. Quantitative Reasoning develops student skills in analyzing, synthesizing and communicating quantitative information. Cultivates algebraic reasoning and modeling skills through a quantitative literacy lens. Emphasizes critical thinking and the use of multiple strategies in applied contexts. Topics also include proportional and statistical reasoning, probability, and evaluation of bias and validity.

Pre-requisites

Students must have completed Algebra I, Geometry and the first semester of Algebra II. This course is being offered based on an ongoing group of mathematics educators working with community colleges to better prepare students for college mathematics. Objective: The objective is to better prepare students for the math pathway that fits their post-secondary goals, by exposing these students to mathematical practices that encourage problem solving, analyzing and communicating mathematical information.

PHYSICAL EDUCATION AND HEALTH

Freshmen PE/Health

Applicable Grades: 9

Course Length: 2 Semesters



Credits: 1

Type of Course: Required

This is a required class for incoming freshmen. A student must pass Freshman PE before taking any other physical education class. The class addresses skills, rules, and strategies of most team sports. The class also introduces weight lifting principles and fitness activities. Participation is a major portion of the grade. Testing is a smaller portion of the grade and includes skill, strength, endurance, and knowledge testing. The major philosophy is to provide individuals with the skills, knowledge, and opportunity to be successful in some type of activity. This course is based on a philosophy of choosing life-long wellness. Students will develop an appreciation of the impact of their heredity, their environment, and their choices upon their personal wellness. Units covered will be personal hygiene, choosing a nutritious diet, mental health, stress control, preventing drug abuse, and healthy sexuality.

Physical Fitness

Applicable Grades: 10, 11, 12

Course Length: 2 Semesters



Credits: 1

Type of Course: Elective

This class is designed to give students the knowledge in weight lifting techniques and principles. Off lifting days will be utilized for periodic fitness testing, endurance activities, and various activities. Emphasis is placed on overall fitness and the importance of leading an active lifestyle.

Fitness and Activities

Applicable Grades: 10, 11, 12

Course Length: 2 Semesters



Credits: 1

Type of Course: Elective

Students will be expected to participate in a variety of fitness developmental activities on a daily basis, as well as participate in a variety of games and activities for fitness and fun. Testing will be done in both areas.

Strength and Conditioning

Applicable Grades: 10, 11, 12

Course Length: 2 Semesters



Credits: 1

Type of Course: Elective

This class is designed to give students the knowledge in strength training and weight lifting techniques and principles. Various activities will be utilized to improve physical strength and condition throughout the year. Emphasis is placed on overall fitness and the importance of leading an active lifestyle.

Team Sports

Applicable Grades: 9, 10, 11, 12

Course Length: 1 Semester

Credits: .5

Type of Course: Elective

Recreation

Applicable Grade: 9,10,11,12

Credits: 1

Course Length: 2 Semesters

Type of Course: Elective

This course would be an addition to our PE program and would primarily focus on outdoor recreation or outdoor activities. These activities would include Map and Compass, Geocaching, Kayaking or lake activities, Gathering, Hiking, etc. Mostly depending on the season in which class is offered.

Enhanced Strength and Conditioning

Applicable Grade: 9,10,11,12

Credits: 1

Course Length: 2 Semesters

Type of Course: Elective

Enhanced strength and conditioning is a class in which students are given the tools and resources to live a healthy and active lifestyle focused on physical strength and endurance. Students will be involved in a rigorous program in which we will be focusing on overall muscular strength and endurance of a person, along with flexibility, cardiovascular endurance, and body composition. This class will help students prepare themselves for sports while in school, but mostly prepare them for the demanding career paths that one might take after or during the completion of high school.

SCIENCE

Biology A-B

Credits: 1

Course Length: 2 Semesters



Applicable Grades: 9,10, 11

Type of Course: Required

This course satisfies the biology portion of a three credit science requirement. Biology is divided into two semesters; Biology A and Biology B. The topics covered in Biology A include, introduction to science, ecology and cell biology. The topics covered in Biology B include, photosynthesis, cell respiration, cell division, genetics, and evolution. This is a robust course designed to teach the process of scientific study and give all students a mastery foundation in the biological sciences. The course provides lecture, class discussion and experimentation. Experimentation includes, clover leaf population study, tree density lab, mass of gum before chewing and after chewing, oat seed lab that investigates the growth of oat seed roots, and several opportunities to observe biology through microscopes.

Chemistry A-B

Applicable Grades: 10, 11, 12

Course Length: 2 Semesters



Credits: 1

Type of Course: Required .
Pre- requisite: Biology

This course satisfies the physical science portion of a three credit science requirement. There is a strong mathematical approach and calculators are recommended. Laboratory work is emphasized. Topics covered in Part A include: Matter and Change, Atomic Theory and Structure, Molecular Structure, Stoichiometry. Part B will include: Gases, Solutions, Reaction Rates, Acids and Bases, Electro-Chemistry. Students must take Part A before taking Part B. Course work will include lecture, computer models, laboratory work, and student lead group work.

Physics A-B

Applicable Grades: 10, 11, 12

Course Length: 2 Semesters



Credits: 1

Type of Course: Required
unless taking Chemistry .
Pre- requisite: Biology I

Physics covers topics in 1D and 2D motion, Newton's Laws, Momentum, Energy, Electricity, and Einstein's Theory of Relativity. It is designed to challenge the intellect and intuition inside out as you learn how things work in the world around you. The focus is on understanding the general principles of physics and using those principles to solve real world problems. There will be a focus on using technology to study and report scientific findings. Performance will be evaluated based on homework, projects and test scores as well as completion of laboratory experiments and tests. The level of mathematics necessary for this class requires a thorough understanding of algebraic principles and knowledge of geometry. Basic right triangle trigonometry will be taught and used during the course of the trimester. Students must take Part A before taking Part B

Horticulture



Applicable Grades: 10, 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course: Elective

This course provides an introduction to the classification, relationships, structure, and function of plants. Topics include reproduction and development of seed and non-seed plants, levels of organization, form and function of systems, and a survey of major taxa. Upon completion, students should be able to demonstrate comprehension of plant form and function, including selected taxa of both seed and non seed plants. The laboratory exercises are coordinated with lecture topics and may include field exercises. Students will be working in the greenhouse.



Geology A-B

Applicable Grades: 10, 11, 12

Credits: 1

Course Length: 1-2 Semesters

Type of Course: Elective

Earth and Space Science provides a study of the earth's lithosphere, atmosphere, hydrosphere, and its celestial environment. This course emphasizes the study of energy at work in forming and modifying earth materials, land forms, and continents through geological time. Students have opportunities to gain an understanding of the history of the development of the earth and space sciences, to explore the uses of knowledge of the earth and its environment in various careers, and to cope with problems related to personal needs and social issues. Students will cover topics on Earth materials, weathering and erosion, astronomy with an emphasis on Earth's place in the universe Earth and Space Science provides a study of the earth's lithosphere, atmosphere, hydrosphere, and its celestial environment. This course emphasizes the study of energy at work in forming and modifying earth materials, land forms, and continents through geological time. Students have opportunities to gain an understanding of the history of the development of the earth and space sciences, to explore the uses of knowledge of the earth and its environment in various careers, and to cope with problems related to personal needs and social issues. Students will cover topics on oceanography, atmosphere, and geologic time and changes throughout Earth's history. Course content will be delivered through lecture, projects, computer models, and class discussions.

Invertebrate/Vertebrate Zoology



Applicable Grades: 10, 11, 12

Credits: .5-1

Course Length: 1-2 Semesters

Type of Course: Elective

This course is recommended for students interested in the health sciences: nursing, medicine, pharmacology, and medical technology, as well as animal science fields such as veterinary medicine, or marine biology. In this one trimester class students will learn classification, anatomy, morphology, and evolutionary adaptations of animals **without** backbones. The course work includes, lecture, mandatory dissections, computer models, and projects. Organisms studied in this class include: sponges, jelly fish, flat worms, round worms, clams, octopus, insects, sea stars, etc.

This is a follow up course to the invertebrate zoology course. Again, this course is recommended for students interested in the health sciences: nursing, medicine, pharmacology, and medical technology, as well as animal science fields such as veterinary medicine, or marine biology. In this one trimester class students will learn classification, anatomy, morphology, and evolutionary adaptations of animals **with** backbones. The course work includes, lecture, mandatory dissections, computer models, and projects. Organisms studied in this class include: frogs, fish, lancelets, hag fish, sharks, rays, skates, birds, reptiles, and mammals

SCIENCE (cont)

Anatomy and Physiology

Applicable Grades: 10, 11, 12

Course Length: 2 Semesters

Credits: 1

Type of Course: Elective

Topics covered in this class include major body regions, skeletal system, muscle system, nervous system, circulatory system, excretory system, and major body parts. This class will also investigate the functioning of body parts and how they maintain homeostasis in the body. Performance will be based on class projects, tests, and class performance on lab investigations. Lab investigations will include microscope work, blood pressure, sensory structures, etc.

Anatomy

Applicable Grades: 10, 11, 12



Credits: .5

Course Length: 1 Semester

Type of Course: Elective

This course is an Anatomy course covering the Human Skeletal, Muscular, Nervous, Endocrine, Circulatory, and Digestive Systems. The course work emphasizes a hands-on approach to learning about the human body including the study of models, mammalian dissections and interactive computer activities. This course is recommended for students interested in the health sciences: nursing, medicine, pharmacology, and medical technology, as well as any other interested students.

Astronomy

Applicable Grades: 10, 11, 12

Credits: .5

Course Length: 1 Semester

Type of Course: Elective

This course will provide the student with an introduction to the concepts of modern astronomy, the origin and history of the Universe and the formation of the Earth and the solar system. Students will compare the Earth's properties with those of the other planets and explore how the heavens have influenced human thought and action. The course gives a description of astronomical phenomena using the laws of physics. The course treats many standard topics including planets, stars, the Milky Way and other galaxies, black holes to more esoteric questions concerning the origin of the universe and its evolution and fate. Although largely descriptive, the course will occasionally require the use of mathematics (Algebra).

Oceanography

Applicable Grades: 10, 11, 12

Credits: .5

Course Length: 1 Semester

Type of Course: Elective

Oceanography combines various aspects of physical, chemical, biological and geological sciences. For example, the ocean and atmosphere are coupled together as a large heat engine which controls global climate. The structure of the sea floor and the physical properties of the overlying water affect the growth and distribution of organisms on the ocean bottom and in the ocean water column. Oceanography emphasizes the nature of ocean processes and focuses on global oceanographic phenomena as well as issues that affect our lives as citizens who live on this water planet. Topics treated include the history and scope of oceanography, global tectonics, tsunami, ocean-atmosphere dynamics, coastal processes, waves, tides, and marine ecosystems, and the significance of the oceans to man.

SOCIAL STUDIES

United States History & Geography



Applicable Grades: 9, 10, 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course: Required

This course studies the history of the United States from the 1890's until the present. Beginning with the Spanish-American War and the imperialistic era from which it sprang and continuing through two World Wars, the Great Depression, and the Cold War, our country's famous people, common people, and events will be studied and analyzed. Included in our study will be how geography affected the development of the present day U.S.

World History & Geography



Applicable Grades: 10, 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course: Required

According to the Michigan social studies framework, Michigan's World History course takes a global and comparative approach to studying the world and its past to develop greater understanding of the development of worldwide events, processes, and interactions among the world's people, cultures, societies, and environment. The course will begin reviewing foundational eras covered in middle school and will work its way through thousands of years of human history to contemporary global issues. Within each historical era, students work at three interconnected spatial scales to study world history through several lenses: global, interregional, and regional. We will be studying the following eras of human history: Eras 1-3 – Beginnings to 300 C.E./A.D – these are expectations to establish necessary background to begin high school study, Era 4 – Expanding and Intensified Hemispheric Interactions, 300 to 1500 C.E./A.D, Era 5 – The Emergence of the First Global Age, 15th to 18th Centuries, Era 6 – An Age of Global Revolutions, 18th Century to 1914, Era 7 – Global Crisis and Achievement, 1900 to 1945., Era 8 – The Cold War and its Aftermath: The 20th Century since 1945 Contemporary Global Issues

Economics



Applicable Grades: 11

Credits: 0.5

Course Length: 1 Semester

Type of Course: Required

This is a class for today. Examples and discussions are based on what is happening around us. The purpose of the class is to help make each student more aware of the significance of economic decision making, both from the individual consumer's point of view as well as the national government's point of view. Increased knowledge in this area should lead to a consumer that is better equipped to understand the options available to successful living.

Civics/Government

Applicable Grades: 11,12

Credits: 0.5

Course Length: 1 Semester

Type of Course: Required

This course emphasizes the study of the U.S. government in five areas: the U.S. constitution and basic principles, law making and the legislative process, law and the courts, state and local government, and elections and voting. These areas and current government topics form the content of this course.

Leadership 12

Applicable Grades: 12

Credits: .5

Course Length: 1 Semester

Type of Course: Elective

This course will include active participation in the development, coordination, and implementation of activities that will positively impact both the school and its surrounding community. Students will work both individually and in groups to assess and plan events for the upcoming school year, giving them leadership roles as they will be required to lead groups, and programs.

SAT Prep

Applicable Grades: 11, 12

Credits: .5

Course Length: 1 Semester

Type of Course: Elective

This course is an elective and is designed to help students prepare for the SAT and MSTEP tests that they will take during the spring of their junior year. In order to prepare for these tests, students will help students to practice skills that they will need when they join the workforce. During this career preparation period, students will research colleges and universities and careers. Students will also practice important skills necessary to get a job such as interviewing and creating a resume.

SOCIAL STUDIES (Cont.)

Psychology

Applicable Grades: 10, 11, 12



Course Length: 2 Semesters

Credits: 1

Type of Course: Elective

Psychology is a class intended for students who are interested in learning more about that old question: HMMMM. I wonder what makes people tick? Or thing like “Why am I so different from my sister?”, “Why do I procrastinate?”, and "What is a psychotic really like?”. During the course you will also learn about how we learn and remember, how to raise your children, how to teach your pets and many other useful applications.

History in The Movies

Applicable Grades: 9, 10, 11, 12



Course Length: 2 Semester

Credits: 1

Type of Course: Elective

A look at how Hollywood has portrayed some of the key events in human history. Students will do research on topics and compare how the historical research compares with what they see in the movies.

Sociology

Applicable Grades: 10, 11, 12

Course Length: 1 Semester

Credits: .5

Type of Course: Elective

Students explore such topics as social control, deviance, prejudice, marriage, family and adolescence. This course will help the student understand how individuals are affected by society.

Modern Social Issues

Applicable Grades: 9, 10, 11, 12

Course Length: 1 Semester

Credits: .5

Type of Course: Elective

In this course students will look at a few of the many social issues that exist in our society. Students will be encourages to discuss these issues and look at opposing viewpoints.

RECOVERY, ONLINE, DUAL CREDITS, OTHER

Credit Recovery-Computers

Applicable Grades: 11, 12

Course Length: 1 Semester

Credits: .5

Type of Course: Elective

Requirements: Principal Approval

This course runs simultaneously with Credit Recovery. At-risk students may earn a computer credit in addition to their online credit while taking Credit Recovery. A 1/2 computer credit will be issued for each semester for students in Credit Recovery that complete miscellaneous computer assignments while working on their online class. Regardless of how many Credit Recovery credits a student earns, a maximum of 1 computer credit will be granted.

Online Learning

Applicable Grades: 9, 10, 11, 12

Credits: .5

Course Length: 1 Semester

Type of Course: Elective

Requirements: Principal Approval

Students enrolled in this class will enroll in an online core subject area course or elective needed for graduation. An online instructor is assigned to the course who grades and monitors student progress. An Addison teacher facilitates the learning program at the school site. Students must be able to work independently and at a steady pace in order to be successful in an online learning environment. Principal permission is required.

Dual Enrollment

Applicable Grades: 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course:

Elective Requirements: Proficiency met on the PLAN test

Principal Approval

Eligible students are in grades 11 or 12, enrolled in at least one high school course, and have qualified proficient in the PLAN test or in the area of interest as an 11th grader. Sophomores wishing to be eligible for the Dual Enrollment option as an 11th grader will need to take the PLAN as a sophomore. Students may not take courses that are hobby, craft or recreational, in the area of physical education, theology, divinity, or religious education (and a course that normally applies toward satisfaction of degree requirements.) There may be some instances where students are out of formula for reimbursements and may pay out of pocket. Students interested in dual enrollment must meet with the principal and counselor prior to signing up for courses.

Seminar

Applicable Grades: 9, 10, 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course: Elective

Provides an individualized opportunity for students to work with a teacher to develop study habits, accountability and organizational skills to properly identify their educational needs. Students will have the opportunity to regularly check their grades, meet with teachers in areas that need additional development and build positive relationships.

Tutorial

Applicable Grades: 9, 10, 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course: Elective

Provides an individualized opportunity for students to work with a teacher to develop study habits, accountability and organizational skills to properly identify their educational needs. Students will work directly with a teacher or paraprofessional to meet their specific educational goals in each class with coursework tailored to their learning style.

Peer to Peer Support

Applicable Grades: 9, 10, 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course: Elective

Peer to Peer Course Credit Programs represents one model of 21st Century instructional design that incorporates applied (experiential) learning in a non-traditional manner. A peer to peer program is a strategy for providing ongoing support and modeling from one non-disabled pupil to a pupil with an individualized education program (IEP). It encompasses both the academic and social domains. Benefits are derived by both pupils.

INDEPENDENT LEADERSHIP

Independent Leadership

Applicable Grades: 10, 11

Credits: .5

Course Length: 1 Semester

Type of Course:

Elective Requirements: Principal Approval

This course is for students to develop leadership roles within the school. Mentoring, tutoring, daily responsibilities and independent research, are the lessons that the independent leadership student will be exposed to. Each individual teacher will prepare a syllabus for students.

AP COURSES

AP Computer Science Principles

Applicable Grades: 10, 11, 12

Credits: 1

Course Length: Year

Type of Course: Elective

Requirements: Principal Approval

Computer Science Principles curriculum is a full-year entry-level course that introduces high school students (10th - 12th grade) to the foundations of modern computing. You do not need any prior knowledge of computing concepts. The course will cover a broad range of foundational topics such as programming/coding, algorithms, the Internet, big data, digital privacy and security, and the societal impact of computing.

AP English Literature and Composition

Applicable Grades: 11, 12

Cred its: 1

Course Length: Year

Type of Course: Elective

This course the students engage in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and theme, as well as such smaller scale elements as the use of figurative language, imagery, symbolism and tone.

AP Psychology

Applicable Grades: 11, 12

Credits: 1

Course Length: Year

Type of Course: Elective

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. They also learn about the ethics and methods psychologists use in their science and practice.

AP Calculus

Applicable Grades: 11, 12

Credits: 1

Course Length: Year

Type of Course: Elective

Calculus deals with calculating and exploring things that change variable rates. The major concepts of calculus include limit, derivative, and integrals. In addition to these major concepts we will successfully highlight numerous subtopics and methods as listed in the course outline. We will explore each concept in four different ways; graphically, numerically, algebraically and verbally emphasizing the connections and applications. This class will prepare students for the AP Calculus exam in which students may earn college math credits.

AP Chemistry

Applicable Grades: 11, 12

Credits: 1

Course Length: Year

Type of Course: Elective

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Students should attain a depth of understanding of fundamentals and reasonable competence in dealing with chemical problems. The topics covered are different than basic chemistry, with more emphasis on chemical calculations and mathematical formulations of principles and more laboratory work. Topics covered are: Structure of Matter, States of Matter, Reactions, Descriptive Chemistry and Laboratory

AP English Language and Composition

Applicable Grades: 11, 12

Credit: 1

Course Length: Year

Type of Course: Elective

This course engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and resources of language contribute to effectiveness in writing.

AP COURSES (Cont.)

AP Biology

Applicable Grades: 11, 12

Credit: 1

Course Length: Year

Type of Course: Elective

AP Biology course is built around eight themes. These themes assist students in organizing concepts and topics into coherent conceptual frameworks. (1) Science as a Process- Science is a way of knowing. It can involve a discovery process using inductive reasoning, or it can be a process of hypothesis testing. Example: The theory of evolution was developed based on observation and experimentation. (2) Evolution-Evolution is the biological change of organisms that occurs over time and is driven by the process of natural selection. Evolution accounts for the diversity of life on Earth. Example: Widespread use of antibiotics has selected for antibiotic resistance in disease-causing bacteria. (3) Energy Transfer- Energy is the capacity to do work. All living organisms are active (living) because of their abilities to link energy reactions to the biochemical reactions that take place within their cells. Example: The energy of sunlight, along with carbon dioxide and water, allows plant cells to make organic materials, synthesize chemical energy molecules, and ultimately release oxygen to the environment. (4) Continuity and CHANGE- All species tend to maintain themselves from generation to generation using the same genetic code. However, there are genetic mechanisms that lead to change over time, or evolution. Example: Mitosis consistently replicates cells in an organism; meiosis (and hence sexual reproduction) results in genetic variability. (5) Relationship of Structure to Function- The structure levels from molecules to organisms ensure successful functioning in all living organisms and living systems. Example: Aerodynamics of a bird's wing permits flight. (6) Regulation- Everything from cells to organisms to ecosystems is in a state of dynamic balance that must be controlled by positive or negative feedback mechanisms. Example: Body temperature is regulated by the brain via feedback mechanisms. (7) Interdependence in Nature- Living organisms rarely exist alone in nature. Example: Microscopic organisms can live in a symbiotic relationship in the intestinal tract of another organism; the host provides shelter and nutrients, and the microorganisms digest the food. (8) Science, Technology, and Society- Scientific research often leads to technological advances that can have positive and/or negative impacts upon society as a whole/ Example: Biotechnology has allowed the development of genetically modified plants.

AP US History

Applicable Grades: 11, 12

Credits: 1

Course Length: Year

Type of Course: Elective

The AP program in United States History is designed to provide students with the analytical skills and enduring understandings necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format.

HONORS COURSES

Honors US History

Applicable Grades: 11, 12

Credits: 1

Course Length: 2 Semesters

Type of Course: Elective

Honors US History is a college preparatory class. As such, the academic requirements are challenging and the classroom expectations are elevated. The first semester will focus on review from 8th and 9th grade US history classes: Founding the New Nation, Building the New Nation, Testing the New Nation, Forging an Industrial Nation, and Struggling for Justice at Home and Abroad. Second semester will focus on Contemporary US History: The Making of Modern America with a focus on the 50's, 60's, 70's, 80's, 90's to today. Students will critically engage with history through readings, writing, discussions, and projects. The objective of this class is to learn the history of the United States, relate content to current events, and prepare for higher education.

Project Lead the Way

Introduction to Engineering Design

Applicable Grades: 11, 12

Credits: 1

Course Length: Year

Type of Course: Elective

Principles of Engineering (POE) is a high school-level survey course of engineering. The course exposes students to some of the major concepts that they will encounter in a post-secondary engineering course of study. Students have an opportunity to investigate engineering and high tech careers. POE gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem solving skills based upon engineering concepts. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education.

In PLTW Engineering, students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world's top companies. Students are immersed in design as they investigate topics such as sustainability, mechatronics, forces, structures, aerodynamics, digital electronics and circuit design, manufacturing, and the environment, which gives them an opportunity to learn about different engineering disciplines before beginning post-secondary education or careers.

Fire Fighter

Fire Fighter

Applicable Grades: 11, 12

Credits: 2

Course Length: Year

Type of Course: Elective

The firefighter program will provide Lenawee County students with an opportunity to receive certification as a firefighter. Students exploring this field will have opportunities to receive hands-on training, attend field trips, participate in class exercises, and job shadow with the local fire department. They will be taught how to determine and prevent potential threats, how to effectively and ethically intervene, and how to handle any situation that occurs. A typical day in this class consists of module work, quizzes, and hands-on training, all while working as a team and building self-discipline. Practical skills and activities include learning to use a breathing apparatus,

ladder placement and carries, fire hose operation, search and rescue techniques, and EMS life-saving methods. Students may also participate in aerial ladder climbs with local fire departments, field trips to fire training facilities, and practice in a fire simulator trailer.

Addison Community Schools will operate an educational program for high school juniors and seniors in preparation for the state certification exam for firefighters. This will be a rigorous and robust program that allows students to gain experience and demonstrate proficiency in basic firefighting and rescue techniques and provides the credentials necessary to become employed with local fire departments. The state requires that students attend at least 90 percent of the classroom time and 100 percent of the practical skills time presented in the course. There might be an additional Saturday, allowing the students more time to get into scenario-based practical skills training.

The plan will be to run the program similar to an academy where students are expected to report, in uniform, at the beginning of each class period by standing at attention for roll call, presenting personal gear for inspection, and showing evidence of the completion of all assignments. The course is conducted on a military model where physical fitness, discipline, and decorum are highly valued.

Edmentum Course Offerings

MATH:

Algebra 1 A/B

Algebra 2 A/B

Consumer Mathematics

Financial Mathematics A/B

Geometry A/B

Michigan Algebra I A/B

Michigan Algebra II A/B

Michigan Geometry A/B Pre-calculus A/B

Probability & Statistics

English Language Arts

Business English A/B

English 09 A/B

English 09 with Augmented Reality

English 10 A/B

English 11 A/B

English 12 A/B

Michigan English 09 A/B

Michigan English 10 A/B

Michigan English 11 A/B

Michigan English 12 A/B

Social Studies

Civics Contemporary World A/B
Economics Michigan United States History A/B
Michigan World History and Geography A/B
U.S. History A/B
U.S. Government US History A/B
World Geography A/B
World History A/B
World History Survey A/B

Science

Biology A/B
Biology with Virtual Labs A/B
Chemistry A/B
High School Earth and Space
Science A/B
Integrated Physics & Chemistry
A/B
Life Science A/B
Physical Science A/B
Physics A/B

Career & Technical Education

3D Modeling 1a:
Introduction 3D Modeling 1b:
Set the Scene Advertising and Sales Promotion
Agriscience 1: Introduction
Agriscience 2: Sustaining Human Life
Animation 1a: Introduction
Animation 1b: Animating Your Creativity!
Artificial Intelligence Astronomy 1a: Introduction
Astronomy 1b: Exploring the Universe
Biotechnology 1a: Introduction
Biotechnology 1b: Unlocking Nature's Secrets Careers in
Criminal Justice 1a:
Introduction Careers in Criminal Justice 1b: Finding Your
Specialty
Certified Nurse Aide A/B
Coding 1a: Introduction to Programming
Coding 1b: Programming
CompTIA A+ 220-1001
CompTIA A+ 220-1002
CompTIA Network+ Certification (N10-007)
Computing for College and Careers 1a: Introduction
Concepts of Engineering and Technology
Cosmetology 1: Cutting Edge Styles
Cosmetology 2: The Business of Skin and Nail Care
Cosmetology 3a: Introduction to Hair Skills

Cosmetology 3b: Waving, Coloring, and Advancing Hair
Skills Criminology: Inside the Criminal Mind
Culinary Arts 1a:
Introduction Culinary Arts 1b: Finding Your Palate
Culinary Arts 2: Baking, Pastry, and More!
Cybersecurity 1a:
Foundations Cybersecurity 1b: Defense Against Threats
Digital Photography 1a: Introduction Digital Photography
1b: Creating Images with Impact!
Digital Photography 2: Discovering Your Creative Potential

Early Childhood Education 1a: Introduction
Early Childhood Education 1b: Developing Early Learners
Entrepreneurship 1a: Introduction
Entrepreneurship 1b: Make Your Idea a Reality
Fashion Design
Food Handler and Food Manager Certifications
Forensic Science 1: Secrets of the Dead
Forensic Science 2: More Secrets of the Dead Forensics: The
Science of Crime Forestry and Natural Resources
Foundations of Green Energy
Great Minds in Science: Ideas for a New Generation
Health Science 1: The Whole Individual
Health Science 2: Patient Care and Medical Services
Health Science: Nursing
Health Science: Public Health
High School Career Discovery
Hospitality & Tourism 1: Traveling the Globe
Hospitality and Tourism 2a: Hotel and Restaurant
Management Hospitality and Tourism 2b: Hotel and
Restaurant Management
Human and Social Services 1: Introduction
Human Geography: Our Global Identity
Interior Design
International Business: Global Commerce in the 21st
Century
Journalism 1a: Introduction
Journalism 1b: Investigating the Truth
Law & Order: Introduction to Legal Studies
Life Skills: Navigating Adulthood
Manufacturing: Product Design and Innovation
Marine Science: Secrets of the Blue
Military Careers: Introduction
National Security
Networking Fundamentals
Nutrition and Wellness
Peer Counseling
Personal and Family Finance
Personal Psychology 1: The Road to Self-Discovery
Personal Psychology 2: Living in a Complex World
Principles of Agriculture, Food and Natural Resources
Principles of Architecture and Construction A/B
Principles of Public Service: To Serve & Protect Public
Speaking 1a: Introduction
Public Speaking 1b: Finding Your Voice
Real World Parenting Renewable Technologies:
Introduction Restaurant Management
Robotics I A/B
Social Media: Our Connected World
Social Problems 1: A World in Crisis
Social Problems 2: Crisis, Conflicts & Challenges
Sociology 1: The Study of Human Relationships

Sociology 2: Your Social Life Sports and Entertainment
Marketing
Sports and Entertainment Marketing 1a: Introduction
Theater, Cinema, and Film Production 1a: Introduction
Theater, Cinema, and Film Production 1b: Lights, Camera,
Action!
Veterinary Science: The Care of Animals
Workplace and Internship Readiness: Preparing for Work &
Life

World Language:

Advanced French A/B (EdOptions Academy Only)
Advanced Spanish A/B (EdOptions Academy Only)
American Sign Language 1a
American Sign Language 1b
American Sign Language 2a
American Sign Language 2b
American Sign Language 3a: Community and Culture
American Sign Language 3b: Conversations and Culture
Chinese 1 A/B (EdOptions Academy Only)
Chinese 2 A/B (EdOptions Academy Only)
French 1 A/B
French 2 A/B
French 3 A/B (EdOptions Academy Only)
German 1 A/B
German 2 A/B
Latin 1 A/B (EdOptions Academy Only)
Latin 2 A/B (EdOptions Academy Only)
Spanish 1 A/B
Spanish 2 A/B
Spanish 3 A/B

Health and Fitness

Adaptive Physical Education
Advanced Physical Education 1
Advanced Physical Education 2
Anatomy
Comprehensive Physical Education
Credit Recovery Health
Credit Recovery Physical Education 1
Credit Recovery Physical Education 2
Drugs & Alcohol
Exercise Science
Family & Consumer Science
Family Living & Healthy Relationships
First Aid & Safety
Fitness Basics 1 F
Fitness Basics 2
Fitness Fundamentals 1
Fitness Fundamentals 2
Flexibility Training
Group Sports
Health & Personal Wellness
Health Careers
HOPE 1
HOPE 2
Individual Sports Intro to Coaching
Intro to Group Sports 1
Intro to Group Sports 2
Intro to Individual Sports 1
Intro to Individual Sports 2
Intro to Nursing 1
Intro to Nursing 2
Life Skills Lifetime & Leisure Sports
Medical Terminology
Nutrition
Outdoor Sports
Personal Health & Fitness
Personal Training Career Prep
Personal Training Concepts
Physiology
Running
Sports Officiating
Strength Training Walking Fitness

Health and PE

Health

Health 1: Life Management Skills

Health and Physical Education 1a:

Introduction Health and Physical Education 1b: Invest in Your Health

Personal Fitness

Physical Education

College & Career Readiness

Accuplacer® Math

Accuplacer® Reading

Accuplacer® Sentence Skills

ACT® English

ACT® Mathematics

ACT® Reading

ACT® Science Reasoning

ACT® WORKKEYS Advanced Biology A/B

Advanced Calculus A/B

Advanced Chemistry A/B

Advanced Computer Science A

Advanced English Lit & Comp A/B

Advanced U.S. History A/B

ASVAB Mathematics

ASVAB Technology & General Science, Part 1

ASVAB Technology & General Science, Part 2

ASVAB Word Knowledge & Paragraph Comprehension

HiSET® Preparation - Language Arts - Reading Part 1

HiSET® Preparation - Language Arts - Reading Part 2

HiSET® Preparation - Language Arts - Writing Part 1

HiSET® Preparation - Language Arts - Writing Part 2

HiSET® Preparation - Mathematics Part 1

HiSET® Preparation - Mathematics Part 2

HiSET® Preparation - Science Part 1

HiSET® Preparation - Science Part 2

HiSET® Preparation - Social Studies Part 1

HiSET® Preparation - Social Studies Part 2

Preparation for the GED® Mathematics (2014)

Preparation for the GED® Reading Language Arts (2014)

Preparation for the GED® Science (2014)

Preparation for the GED® Social Studies (2014)

SAT® Language Arts

SAT® Mathematics

SAT® Reading

TASC Preparation - Language-Arts Reading Part 1

TASC Preparation - Language-Arts Reading Part 2

TASC Preparation - Language-Arts Writing Part 1

TASC Preparation - Language-Arts Writing Part 2

TASC Preparation - Mathematics Part 1

TASC Preparation - Mathematics Part 2

TASC Preparation - Science Part 1

TASC Preparation - Science Part 2

TASC Preparation - Social Studies Part 1

TASC Preparation - Social Studies Part 2

ELL Foundations

ELL Foundations: Level 1

ELL Foundations: Newcome

Base Education SEL- Video-Based

Anger

Boundaries

Bullying and Cyberbullying

Coping Strategies

Digital Safety

Diversity

Emotions

Empathy

Equity

Families

Gratitude

Growth Mindset

Healthy Communication

Healthy Relationships

Mindfulness

Peer Pressure

Resilience

Respect

Responsibility

Self-Esteem

Self-Regulation

Setting Goals

Teasing

Who Am I?

Worries

Base Education SEL- Interactive

Adjusting to Today's New "Normal"

Adrenaline

Anxiety
 Avoiding Exploitation
 Bullying and Cyber Bullying
 Coping Strategies
 Coronavirus (COVID-19)
 Cultural Implications Within Family and Learned Behavior
 Depression
 Digital Citizenship
 Future Goals
 Getting to Know You
 Healthy Communication
 Healthy Relationships
 Impulsive Decision-Making
 Irrational Thinking
 Learned Helplessness
 Learning How to Say "No Thanks".
 LGBTQIA
 Life Changes and Adjustments
 Mindfulness
 Motivation
 Primary and Secondary Impacts of Behavior
 Putting It All Together
 Raising Awareness of Opioid Addiction
 Refocus
 Restorative Practices
 Self-Esteem
 Social and Emotional Learning and You: A Personalized Guide for Successful SEL Integration
 Social Justice Series, Part One – Equity
 Strategies for Successful Return to School
 Marijuana
 Substance Use and Misuse: Drug Facts - Vaping and JUULing: In His Own Words

 Stress Management
 Substance Use and Misuse: Drug Facts –Alcohol
 Substance Use and Misuse: Drug Facts - Bath Salts
 Substance Use and Misuse: Drug Facts - Cigarettes
 Substance Use and Misuse: Drug Facts - Cocaine
 Substance Use and Misuse: Drug Facts - Hallucinogens and Dissociative Drugs
 Substance Use and Misuse: Drug Facts - Heroin
 Substance Use and Misuse: Drug Facts - Inhalants and the Choking Game
 Substance Use and Misuse: Drug Facts - Marijuana and Concentrates
 Substance Use and Misuse: Drug Facts - MDMA/Ecstasy
 Substance Use and Misuse: Drug Facts - Methamphetamine
 Substance Use and Misuse: Drug Facts - Prescription Drugs
 Substance Use and Misuse: Drug Facts - Synthetic

 Substance Use and Misuse: Section 01 - Introduction and Disclosure Substance Use and Misuse:
 Section 02 - Pre-Course Knowledge Test Substance Use and Misuse:
 Section 03 - Pre-Course Attitude Survey Substance Use and Misuse: Section 04
 Drugs and the Mind - Emotions and Drugs Substance Use and Misuse: Section 05 -
 Drugs and the Mind - Moods and Drugs Substance Use and Misuse: Section 06 -
 Drugs and the Body - Drugs and the Brain Substance Use and Misuse: Section 07 -
 Drugs and the Body - Absorption of Drugs Substance Use and Misuse: Section 08 -
 Drugs and the Body - Route Variance Substance Use and Misuse: Section 09 -
 Drugs and the Body - Mixing Drugs Substance Use and Misuse: Section 10 -
 Drugs and the Body - Overdose Substance Use and Misuse: Section 11 -
 Drugs and the Body - The Cycle of Abuse Substance Use and Misuse: Section 12 -
 Drugs and Relationships - Friends and Drugs Substance Use and Misuse: Section 13 -
 Drugs and Relationships - Lying, Concealment, Deception Substance Use and Misuse: Section 14 –
 Drugs and Relationships - Responsibilities Substance Use and Misuse: Section 15 -
 Overcoming Drugs - Life Story Substance Use and Misuse: Section 16 -
 Overcoming Drugs - The "Forget You" Mo

 Substance Use and Misuse: Section 17 - Brainstorming the Future
 Substance Use and Misuse: Section 18 – Overcoming Drugs - Refusal, Coping and
 Withdrawal Substance Use and Misuse: Section 19 - Overcoming Drugs - Triggers and Goals
 Substance Use and Misuse: Section 20 - Overcoming Drugs - Relapse
 Substance Use and Misuse: Section 21 - Living Drug-Free - Why Kids Use
 Substance Use and Misuse: Section 22 - Living Drug-Free - Moving Forward
 Substance Use and Misuse: Section 23 – Living Drug-Free - Impulsivity Substance
 Use and Misuse: Section 24 - Post-Course

Attitude Survey
Substance Use and Misuse: Section 25 - Post-Course
Knowledge Acquisition Test
Substance Use and Misuse: Section 26 – Close Suicide
Education and Prevention Talking to Adults
Truancy
Vision of Self

High School Electives

Academic Success
African American History
Anthropology 1: Uncovering Human Mysteries
Anthropology 2: More Human Mysteries Uncovered
Archaeology: Detectives of the Past
Art History & Appreciation
Art in World Cultures
Creative Writing
Creative Writing: Unleashing the Core of Your Imagination
Gothic Literature: Monster Stories
History of the Holocaust
Music Appreciation: The Enjoyment of Listening
Mythology and Folklore: Legendary Tales
Philosophy: The Big Picture
Reading and Writing for Purpose
Structure of Writing
The Lord of the Rings: An Exploration of the Films and Their
Literary Influences
Women's Studies: A Personal Journey Through Film
World Religions: Exploring Diversity

Higher Ed & Career Readiness

TABE® Language Level A
TABE® Language Level D
TABE® Language Level E
TABE® Language Level L
TABE® Language Level M
TABE® Mathematics Level A, Part 1
TABE® Mathematics Level A, Part 2
TABE® Mathematics Level D
TABE® Mathematics Level E
TABE® Mathematics Level L
TABE® Mathematics Level M
TABE® Reading Level A TABE® Reading Level D
TABE® Reading Level E
TABE® Reading Level L
TABE® Reading Level M
TEAS English
TEAS Math
TEAS Reading
TEAS Science

Southern Michigan Center for Science and Industry

Southern Michigan Center for Science and Industry's objective is to provide opportunities for careers in engineering, sales, manufacturing and advance manufacturing, to improve student performance and workplace readiness, by providing 21st century education and training using blended learning with utilization of technology.

Environmental Science Sand Creek

This course covers environmental issues, geology (minerals, rocks, weathering, soil, and plate tectonics), and hydrology (water cycle, groundwater, watersheds). Students will conduct a botany experiment in the school greenhouse. Students in this class will have the opportunity to learn leadership through the National FFA Organization. Please note this is a required graduation class and is also the first Agriscience class offered at Sand Creek for completion of the Agriscience CTE program.

PLTW Biomedical Science – Madison Schools

The rigorous and relevant four-course PLTW Biomedical Science sequence allows students to investigate the roles of biomedical professionals as they study the concepts of human medicine, physiology, genetics, microbiology, and public health. Students engage in activities like investigating the death of a fictional person to learn content in the context of real-world cases. They examine the structures and interactions of human body systems and explore the prevention, diagnosis, and treatment of disease, all while working collaboratively to understand and design solutions to the most pressing health challenges of today and the future. Each course in the Biomedical Science sequence builds on the skills and knowledge students gain in the preceding courses. Schools offer the three PLTW Biomedical Science foundation courses within a period of three academic years from the start of implementation and may also offer the capstone course.

Principles of Biomedical Science

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

Human Body Systems

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

Medical Interventions

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Capstone Course

Biomedical Innovation

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.

Lenawee Tech Center Course

Description Arts & Communications Career Pathway

Graphic Imaging Technology

Students will learn desktop publishing and electronic presentation methods, digital photography, computer graphic illustration, creative art and drawing, printing methods and related processes, animation for web pages and file management techniques.

Video & Audio Production

Students learn to create video and audio projects, operate digital video and audio equipment and create television programs for broadcast with LISD TV.

Business, Management, Marketing & Technology Career Pathway

Culinary Arts

Students will learn food preparation and basic daily operations including cost controls, inventory and ordering. Plan and coordinate events, create recipes, develop culinary and baking skills, practice management and leadership skills.

Computer Information Services

Students will learn to diagnose and repair computers, set-up computer networks and prepare for various computer technician certifications.

Computer Programming

Students will have the opportunity to learn software, mobile, game and/or web development. The program will introduce students to various programming languages such as Python, C++, C#, Java, Visual Basic, NET, PHP and Java Script.

Marketing & Entrepreneurship

Learn to recognize economic and market trends; develop entrepreneurial, management and leadership skills; utilize various sales promotional techniques; create positive relationships with customers and develop business plans.

Engineering/Manufacturing & Industrial Technology Career Pathways

Automotive Services Technology

Students will learn to work in teams in a shop setting, learning to diagnose and repair cars, including steering and suspension systems, brake and electrical systems and engine performance problems. Earn Automotive Services Excellence (ASE) certifications that will help in job interviews.

Building Trades & Construction Careers

Students will learn to safely operate power tools, understand the process of constructing a building, identify types of materials and dimensions of lumber, perform carpentry tasks and read blueprints. Students will also be introduced to high-demand specialty careers in electrical, plumbing and HVACR (heating, ventilation, air conditioning and refrigeration)

Welding Technology

Students will learn shielded metal arc, gas metal and gas tungsten arc welding as well as thermal cutting operations. Safety, code, and procedures requirements for a variety of industry applications will be emphasized.

Residential Construction

Students will learn to work in teams to complete all aspects of a construction project including framing, plumbing, roofing, dry walling, and electrical. This class, for second year students, will remodel a Habitat for Humanity house and/or work on a community- based project.

Automotive Collision Repair & Refinish

Students will learn to restore damaged auto bodies and frames to their original condition, estimate the cost of repairs, weld torn metal, apply primer and paint.

Engineering ,Design and CAD

Students will learn to think like an engineer, design creatively and create a blueprint using Computer-Aided Design (CAD). Students also learn to use advanced engineering and architectural software packages including: AutoCAD, Inventor, NX and CATIA.

Engineering, Robotics& Emerging Technologies

The topics of alternative energy and robotics will be investigated to discover Engineering Principles and Methods. Using this information, the students will build simple machines, learn about different robot applications and build a competitive robot. They will also investigate and solve problems with respect to alternative energy.

Machining & Computer Aided Manufacturing(CAM)

Students will learn to work in today's advanced manufacturing facilities, to operate manual machine tools and to program and operate Computer Numerical Control (CNC) machines such as the machining center, turning center, and surface grinder. Learn machine shop safety, blueprint reading, related math, precision measurement, Computer Aided Manufacturing (CAM) and welding/fabrication.

Health Sciences Career Pathways

Dental Aide

Students will learn dental terminology, CPR, First Aid, oral anatomy and physiology, dental radiography, how to assist in dental procedures and how to use and sterilize dental equipment

Emergency Medical Technician(EMT)

Students will learn to work as members of the pre-hospital emergency medical care teams administering emergency care to sick and injured while transporting them to the appropriate facility.

Health Care Careers

Students will learn CPR and First Aid, how to measure blood pressure, take vital signs and medical terminology. Students will participate in clinical experiences at hospitals and health care facilities.

Nursing Preparation

Get a jump start on nursing school prerequisites through concurrent-enrollment in easier Michigan University classes and on-site clinical opportunities at Bixby Medical Center. This class offers expanded clinical and skill building as well as the opportunity to take the state CNA certification exam.

Certified Nurse Aide (CNA)

Students will learn to provide nursing or nursing-related services to residents in a nursing home, adult foster care, assisted living facility or in patient homes. Successful students have the opportunity to take the state CAN certification exam.

Human Services Career Pathways

Education Careers

Students will learn about child development and how people learn from birth through adulthood. Students will explore career options within education, such as teacher, teacher assistant, social worker, speech pathologist, occupational therapist, counselor, etc. Students may have the opportunity to experience on-the-job training through Cadet teaching.

Natural Resources & Agriscience Career Pathways

Agri-Tech

Students will learn to raise livestock, operate farm machinery at the LISD Center for Sustainable Future; Students will study modern soil, crop and plant science, animal science, how to manage and conserve natural resources and use of alternative energy sources. FFA leadership training will be included.

Biochemical Technology

Students will learn skills in standard laboratory operating procedures by working with chemicals and extracting DNA. Students will explore careers in the pharmaceutical, forensics, product manufacturing, research and development fields.

Horticulture

In this plant science course, students will learn landscape, conservation of natural resources and how to use design software programs. Students will learn greenhouse management and nursery operation at the LISD Center for Sustainable Future. FFA leadership training will be included.

Sustainable Agriculture & Environmental Systems

This program is designed for students to develop skills and explore opportunities within the fields of sustainable agriculture and environmental science. Students will raise small animals, plant and maintain gardens, perform environmental surveys and experiment with solutions to agricultural and environmental problems. FFA leadership training will be included.

