

COURSE DESCRIPTIONS

Note: All course descriptions are provided by Department Chairpersons and the Dept. of Curriculum and Instruction.

Engineering/Design/ Architecture (Project Lead the Way) www.PLTW.com

51035 Introduction to Engineering Design Grades 9-12

(1 credit) This course is for students interested in Engineering and/or Architecture related fields. Unit of study include sketching, Multi-Views, Pictorial and 3D-Drawing, Sections, Dimensioning, Auxiliary, and Architectural drawings. Students will be expected to use 2D and 3D CAD software to solve problems and present designs. Powerful Autodesk software such as AutoCAD and Inventor will be utilized. Technical reading and math skills are needed. This course is part of a nationally recognized program called *Project Lead The Way*. More information can be found at the web site www.PLTW.org
Prerequisites: None

51080 Digital Electronics (1 credit) Grades 10 - 12

This is a course in applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry

prior to the actual construction of circuits and devices. This course is part of a nationally recognized program called *Project Lead The Way*. More information can be found at the web site www.PLTW.org
Prerequisite: Introduction to Engineering Design

51085 Principles of Engineering (1 credit) Grades 10 - 12

This course helps students understand the field of engineering/engineering technology by exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. Topics include the design process, CAD usage, material strength testing, structural analysis, and other engineering topics. Furthermore, the course includes concerns about social and political consequences of technological change. This course is part of a nationally recognized program called *Project Lead The Way*. More information can be found at the web site www.PLTW.org

51087 Civil Engineering and Architecture

(1 credit) Grades 10 - 12
This course provides an overview of the fields of Civil

Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art 3D software to solve real world problems and communicate solutions to hands-on projects and activities. This course covers such topics as:

- * The Roles of Civil Engineers and Architects
- * Project Planning
- * Site Planning
- * Building Design
- * Project Documentation and Presentation

This course is part of a nationally recognized program called *Project Lead The Way*. More information can be found at the web site www.PLTW.org

Prerequisite: Introduction to Engineering Design

Fine Arts:

**Director: Roger
Kelley**

Visual Arts:

**Debra Payne
Chairperson**

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40203 Art Fundamentals (1 credit) Grade: 9

In this year-long introductory course, students will explore a variety of units including color theory, drawing and painting techniques, ink design and perspective. Each student must pay a \$25.00 lab fee.

40204 Three-Dimensional Design (1/2 credit) Grade: 9

This is a problem-solving class that explores art with a third dimension. The addition of depth means creations reflecting many sculptural directions. A variety of mediums will be used. An introduction to architecture is also a part of this course. Each student must pay a \$25.00 lab fee.

50230 Drawing/Painting I (1 credit) Grades: 10-12

In this year-long course the student will be introduced to the basic drawing and painting techniques used to realistically depict a variety of subject matter. Media will include a pencil, charcoal, ink and acrylics. Each student enrolled in this class must pay a fee of \$30.00.

50235 Drawing/Painting II (1 credit) Grades: 11-12

In this year-long art course the student will build on the techniques used in Drawing/Painting I. Media will include pastels, colored pencils, watercolor and acrylics, but now the emphasis will be on color. Each student enrolled in this class must pay a fee of \$30.00.

Prerequisite:
Drawing/Painting I

50255 AP Studio Art (1 credit) Grade: 12

This is a year-long course for seniors interested in creating a portfolio that may earn college credit. Projects will include realistic and expressive charcoal and chalk pastel drawings as well as oil, pastel, acrylics and watercolor paints. Each student must pay a fee of \$50.00. This class can be taken for Advanced Placement (AP) college credit or "dual-credit" through UMKC.

Prerequisite:
Drawing/Painting I and Drawing and Painting II with a "B"

50260 Graphic Design I (1 credit) Grades: 10-12

In this year-long course the students will explore the techniques, tools and

processes used in the creation of graphic design. The students will apply elements and principles of design to each assignment. Designs will be created on Macs using Photoshop, Illustrator and Adobe IN-Design Software. Students will employ the use of digital cameras and scanners to create some images. Projects include items for print such as postcards, posters, and business letterheads. Each student in this class must pay a fee of \$40.00.

50263 Graphic Design II (1 credit) Grades: 11-12

Intended for the serious Graphic Design student, this class will focus on learning in-depth detail about the elements and principles of design and how they apply to the printed page. The second semester of the class will center around the creation of a portfolio for presentation to colleges. Students will continue to develop and refine skills in Adobe Photoshop, Illustrator, and Adobe Design. Articulated Credit is available for students wishing to attend Graphic Design programs at Penn Valley Community College, The Art Institute-Chicago, Schaumburg, or Colorado. Each student

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enrolled in this class must pay a fee of \$40.00.

Prerequisite: Graphic Design I with a “B” average.

Recommended: At least Drawing and Painting I previously or concurrently.

50270 Creative Photography (1/2 credit) Grades: 11-12

This course introduces students to digital photography, retouching and photo manipulation using Adobe Photoshop. Emphasis is placed on photography as a creative and artistic medium. *Students will be required to furnish a 5.0 mega pixel digital camera.* Each student in this class must pay a \$50.00 fee.

Text: Digital Imaging and Photography. Rosen and Devries

50275 Advanced Creative Photography (1 credit) Grades: 11-12

This course will expand on knowledge gained in Creative Photography. Topics include retouching, photo manipulation, self portraiture, changing perspective, altering a book, etc. *Students are required to furnish a 5.0 mega pixel digital camera.* Each student enrolled in this class must pay a \$100.00 fee.

Prerequisite: Completion of Creative Photography with a “B” average.

50280 Sculpture I (1 credit) Grades: 10-12

This year long course will build on the techniques and materials covered in 3-D Design. Students will create free standing and relief sculptures using additive, subtractive and replacement processes. Each student enrolled in this class must pay a fee of \$50.00.

Text: *Sculpture* by Williams

50285 Sculpture II (1 credit) Grades: 11-12

In this year-long course, students will build on the techniques and media used in Sculpture I. Media will include wood, paper, plaster, and others that might prove interesting. A fee of \$50.00 to cover materials must be paid by each student enrolled in this class.

Prerequisite: Sculpture I

50287 AP Sculpture (1 credit) Grade: 12

This is a year-long course for seniors, interested in creating a portfolio that earns college credit. Projects will include realistic and expressive sculptures using clay, plaster, wood, or metal assemblage. Students are required to complete an area of concentration in addition to areas of breadth and quality for portfolio

submission. Each student must pay a fee of \$50.00. This class can be taken for Advanced Placement (AP) college credit.

Prerequisite: Sculpture II

Performing Arts:

David Young Chairperson

41237 Mixed Choir (1 credit) Grade: 9

This is a non-auditioned course open to any freshman interested in singing. This choir will incorporate good tonal production, breath support, diction, blend, balance, phrasing, intonation, dynamics and musical interpretation in daily rehearsal and performance. Students will also work toward improving sight-singing skills. Mixed Choir will perform a minimum of 4 required concerts per year, and may, along with the input of the director, choose to purchase matching “uniforms” to be worn during performances. This choir meets for the entire school year, and will satisfy the current graduation requirement of one fine arts credit.

41270 Concert Choir (1 credit) Grade: 9

Grade 9 Concert Choir is a full-year select choir, which

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will fulfill the current graduation requirement for one fine arts credit. Students will be chosen based on an audition during the spring of their 8th grade year. 9th Grade Concert Choir will sing 4-part music, and will incorporate into daily rehearsals and performance good singing techniques, (including blend, posture, diction, dynamics, musical interpretation, phrasing, intonation and breath support). This choir will sing diverse literature, both in time period and genre, and will cover basics of musical composition. This choir will also work toward improving sight-reading skills. This group most frequently represents the Junior High and may be required to participate in additional performances above and beyond the four required annual concerts. The Concert Choir members and director may choose to purchase matching “uniforms” to be worn during performances. Enrollment in this course is by teacher placement only.

41260 Women's Choir I (1 credit) Grade: 9

Women's Choir I for Grade 9 is a full-year select choir, which will fulfill the current graduation requirement for one fine arts credit. Singers are placed in this group at the

discretion of the director. Grade 9 Women's Choir will sing 3-part women's music, and will incorporate into daily rehearsals and performance good singing techniques, (including blend, posture, diction, dynamics, musical interpretation, phrasing, intonation and breath support). This choir will sing diverse literature, both in time period and genre, and will cover basics of musical composition. This choir will also work toward improving sight-reading skills. The choir members and director may choose to purchase matching “uniforms” to be worn during performances. This choir meets for the entire school year. Enrollment in this choir is by teacher placement only.

51280 Blue Jay Singers (1 credit) Grades 10

This choir is open to all LHS sophomores who want to sing! Enrollment in this choir is by director placement based upon need for optimum vocal balance within the group. This choir is for students who enjoy singing and can match pitch. Class curriculum focuses on development of proper vocal techniques. Blue Jay Singers is a full-year course designed to help students discover and

develop their musical abilities, especially the use of and confidence in the voice. Enrollment in this choir is by teacher placement only.

51285 Liberty Chorale (1 credit) Grade: 10-12

This is an intermediate level select choir that will include sophomore, junior, and senior students who have had at least one previous year of choir as a pre-requisite. Class curriculum focuses on continuing proper vocal technique and an increasing difficulty level of music. Singers will be placed in this group by the director's discretion based upon need for optimum vocal balance within the group. Enrollment in this choir is by teacher placement only.
Prerequisite: One previous year of choir at the 9, 10, or 11 grade level.

51265 Women's Honor Choir (1 credit) Grade: 11-12

This is an advanced select choir that will include exceptional female Juniors and Seniors who have had at least one previous year of choir as a pre-requisite. Younger singers may be placed in this group by the director's discretion based upon need for optimum vocal balance within the group.

COURSE DESCRIPTIONS

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Prerequisite: One previous year of choir at the 9, 10, or 11 grade level.

51270 Concert Choir (1 credit) Grades: 10-12

The rigorous vocal music curriculum of the Liberty High School Concert Choir is one of the most demanding in the state of Missouri. This is an advanced select choir that will include exceptional Juniors and Seniors who have had at least one previous year of choir as a pre-requisite. Younger singers may be placed in this group by the director's discretion based upon need for optimum vocal balance within the group. The Concert Choir is a full-year auditioned course designed to challenge advanced choral students to continue mastery of vocal technique, performance, musical literacy, and independent sight-reading. Upon completion of the course, students will be expected to consistently demonstrate advanced vocal technique and appropriate stylistic performances of advanced choral literature. This group has a large amount of co-curricular community, festival and competitive performance responsibilities. A year-long commitment is mandatory. Singers are

placed in this group at the discretion of the directors.

Prerequisite: One previous year of choir at the 9, 10, or 11 grade level.

41210 9th Grade Band (1 credit) Grade: 9

The focus of this course is the rehearsal and performance of a variety of band literature. There is a minimum of three performances a year. Many opportunities are available for individuals and small groups to perform throughout the year in activities such as district and state music festivals. Band is a team effort; therefore, high standards in attendance and performance participation must be met in the best interests of the band. Purchase of a uniform band shirt for performances is required. Students are responsible for supplying their own instrument, books and accessories (i.e. reeds, mutes, percussion sticks and mallets, oils, etc.). Some instruments are available through the school district. Private instruction is recommended.

Fee: Students that use a school owned instrument will pay a \$50 rental fee (percussionists \$25).

51210 Band (1 credit) Grades: 10-12

Students must be able to work and perform together as a

group. Each band member is furnished a uniform and is expected to practice and perform at many activities during the course of the year. There are three bands at Liberty High School: The Marching Band, the Symphonic Band, and the Concert Band. Auditions for Symphonic Band and Concert Band are given at the conclusion of the marching season to determine personnel in the two concert ensembles.

Many opportunities are available for individuals and small groups to perform throughout the year, i.e., all-district/state band, district/state music festival and pep bands. Students must provide their own instruments and accessories, i.e. lyres, gloves, reeds, mutes and percussion sticks/mallets. All band students are encouraged to study privately outside of the school day with qualified instructors in the metro area to further their musical development. The course meets daily for a full year.

Fee: Students that use a school owned instrument will pay a \$50 rental fee (percussionists \$25).

51230 Symphonic Orchestra (1 credit) Grades: 9-12

This class is for the dedicated string instrumentalist. Large ensemble performance is

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emphasized along with individual development in technique, style and common practices of the Baroque, Classical, Romantic and Contemporary genres.

Students should be prepared to play for a variety of functions as well as yearly contests and regularly scheduled performances.

Enrollment in this orchestra is by audition and by teacher placement only.

51235 Concert Orchestra (1 credit) Grades: 9-12

This class is for all string instrumentalists who are working to improve their playing technique. Both large and small group performance is emphasized along with individual development in technique, style, and introductions to various genres of music. Students should be prepared to play for a variety of functions as well as regularly scheduled performances.

Requirements: The orchestra that you will be enrolled in will be decided by audition and teacher discretion. Students will be placed in the choir that offers them the most musical growth.

Enrollment in this orchestra is by audition and by teacher placement only.

51229 Sophomore Orchestra (1 credit) Grade: 10

This class is for all sophomore string instrumentalists who are working to improve their playing technique. Both large and small group performance is emphasized along with individual development in technique, style, and introductions to various genres of music. Students should be prepared to play for a variety of functions as well as regularly scheduled performances.

Requirements: Participation in the orchestra at the Junior High School, or by audition.

Enrollment in this orchestra is by audition and by teacher placement only.

51290 Music Appreciation (1 credit) Grade: 10-12

Music Appreciation is a class for the student who wants to learn about music but does not want to perform in front of an audience. This class will explore, but is not limited to studying the elements of music, musical theatre, jazz, pop, blues, country, classical, and world music. Students will learn about music from the audience and consumer viewpoint and discover the application of elements of music in the music industry. This course allows students to study music in their lives and the development of music as an art form.

50551 Speech I (1/2 credit) Grades: 9-12

Speech I is a one-semester course that introduces the student to the basic techniques of speech writing, delivery and style. Students study communication theory as a basis for refining their own listening skills and for analyzing audience needs.

In addition to writing and delivering impromptu, extemporaneous and scripted speeches, students will also increase their speaker confidence and explore the basics. By the end of the semester, students will have experience with many different types of speaking and be able to perform speeches effectively. This course is a prerequisite for dual-credit Advanced Speech.

50552 Advanced Speech (1/2 credit) Grades: 10-12

An overview of the theory and guided practice of the skills used intrapersonal, interpersonal, group and public communication. The student will conduct an interview, participate in small group discussion, and present both an informative and persuasive speech.

Textbook: Essentials of Human Communication by J.A Devito. Boston: Allyn and Bacon, 2002.

COURSE DESCRIPTIONS

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Prerequisite: Grade of “B” or higher in Speech I at grade 10 level or higher or teacher approval. To earn college credit, a student must have a GPA of a 3.0 or higher and a score of 21 or above on the ACT. Recommended for juniors and senior students who can handle college-level curriculum.

50561 Debate I

(1 credit) Grades: 9-12

Debate I is a course designed to teach the skills of analysis, research and reasoning. Students learn to logically develop and organize rational arguments on both sides of controversial subjects and defend those arguments thoughtfully and articulately from the attack of others. Course work includes the study of basic debate theory, and topic analysis, the completion of written assignments such as evidence cards, simple case formats, briefs, persuasive speeches and participation in practice and competitive debates on a novice level. Students accumulate points for membership in the National Forensics League. Participation in four interscholastic debate and forensics tournaments during the year is required. This commitment includes rehearsal in addition to classroom hours and weekend

travel with the Debate and Forensic Team.

Textbook: *Breaking Down Barriers: How to Debate*

Requirement: 2.5 GPA MSHAA eligibility. Maintain a “B” average, teacher approval

50563 Advanced Debate (1 credit) Grades: 11-12

Advanced Debate is a two-semester course designed to assist students in redefining basic skills learned in Debate I to teach advanced debate theory along with more complex principles of strategic debate and argumentation.

Course work includes advanced study in debate theory, debate strategy and topic analysis; completion of written assignments such as varied case formats, negative and affirmative briefs, persuasive speeches and participation in practice debates as well as competitive debates on a varsity level.

Students must prepare individual speaking events for competition and will accumulate points for advanced membership in the National Forensic League. Participation in six interscholastic debate and forensic tournaments for the year is required.

Prerequisite: An average GPA of 2.5 in Debate I and II, an overall GPA of 2.5 and teacher approval.

Students are required to “break” to the quarterfinal level at least one time before moving to Debate IV-V.

40591 Theatre and Film 9

(1/2 credit) Grade: 9

Theatre and Film 9 offers the student an introduction to the theatre and basic film analysis. Students will read and analyze plays, view and analyze film, watch and analyze films, develop a broad knowledge of dramatic literature and learn the basics of beginning acting for stage and film.

Students will participate in a variety of exercises designed to develop creative expression and will be expected to perform monologues and improvisational as well as duet acting scenes.

50592 Theatre and Film

(1/2 Credit) Grades: 10-12

Theatre and Film offers the student experience in acting, play production, and theatre and film analysis. Students will gain experience with actual play production. Experience in set design and stagecraft will be gained through work on the winter all-school play or fall all-school musical. Additional work on costuming and make-up will be a part of the course. Students will be required to bring paint clothes to class and appropriate

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shoes for scene shop work.

50594 Advanced Theatre (1 credit) Grades: 10-12

Advanced Theatre is a year long course designed to provide students with the opportunity to apply advanced skills in acting, directing, scenic design, set construction, lighting design, stage management, theatre management, costume design, make-up design and technical direction. Students will apply all skills in the production of plays throughout the school year. This class will meet at the Community Center for parts of the school year and students will be required to see all high school theatre productions.

Prerequisites: Theatre and Film and/or permission from the instructor.

50595 Competitive Theatre (1 credit) Grades: 10-12

Competitive Theatre is a year-long semester course designed to offer a variety of performance experiences at the interscholastic competition level. Students will explore literature for performances that will include children's storytelling humorous and dramatic interpretation, duo improvisation, duo interpretation poetry, prose, storytelling, one-act play, reader's theatre, original

oratory, and extemporaneous speaking.

Students will prepare for competition and rehearse independently, in groups and with private direction. Participation in four interscholastic forensic tournaments is required. This commitment includes rehearsal, in addition to classroom hours and weekend travel with the Debate and Forensics team.

Students may letter as a Varsity member of competition.

Requirement: Students must be MSHSAA eligible to compete to enroll in the class. This is a one-credit fine arts course and may be repeated with a course grade of "B" and instructor permission for each additional credit in each year completed.

50597 Stagecraft (1 credit) Grades 10-12

Stagecraft is a year-long course designed to introduce students to the fundamentals of theatrical set construction, technical theatre work, property construction and scene painting. Students will learn how to use all hand and power tools in the scene shop to produce a set from working drawings created by a scenic designer. Particular attention will be given to using mathematical computation to enlarge scenery and prepare

lumber for cutting. Class participation and problem solving are essential to this course. Students are expected to wear appropriate clothing for scene shop work and will be required to attend the fall all-school musical or all-school play.

Although Stagecraft is a year-long course, students may enroll for first semester only. Students may NOT enroll for second semester only.

Business:

**Ms. Tracey Waring
Chairperson**

50310 Intro to Business (1/2 credit) Grade: 10 - 12

This introductory course exposes students to the American economic system and how businesses operate. Students will explore a variety of industries, gain an overview of economics, and evaluate consumer trends and issues. Students will develop critical business skills including: problem-solving, leadership, communications, technical, teamwork and diversity. These skills will be useful in all business courses and relevant to any career path.

Text: Egglund, Dlabny, et al. *Intro to Business.*

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**50312 Entrepreneurship
(1/2 credit) Grades: 11-12**

Entrepreneurship is a class to help students learn the process of developing a business or business idea. Each student will be required to apply the learned concepts in developing a business plan for a business of their choice.

Text: Lambing, Kuehl. *Entrepreneurship.*

management, automobile purchases, and consumer rights and responsibilities. Emphasis is placed on developing decision-making skills for real-life financial situations. **This course is a graduation requirement beginning with the class of 2010. It may also be taken through the FACS Department.**

Text: Ryan. *Managing Your Personal Finances.*

to handle the daily recording and financial activities of the typical small or medium-sized business. College-bound students will be better prepared for future study in accounting.

DAILY HOMEWORK IS REQUIRED.

Recommendation: Grade of C or above in a math course.

Text: Ross, Gilbertson, Lehman, Hanson. *Century 21 Accounting.*

**50313 International Business
(1/2 credit) Grades: 11-12**

International Business brings students into our global society, providing information and awareness of international cultures and business activities, including organization, management, finance, marketing, technology, and careers. Students will also investigate specific countries and businesses and their relationships with the United States and other countries. Text: Dlabay, Scott. *Business in a Global Economy.*

**50381 Digital Communications
(1/2 credit) Grades 9 – 12**

Digital Communications is an introductory computer course that focuses on keyboarding skills with an emphasis on technique, speed and accuracy. Students will compose and format a variety of business documents utilizing a wide range of computer technology. Text: Robinson, Hoggatt, et. al. *Keyboarding and Information Processing.* This course replaces Personal Business Computing.

**50360 Computer Applications
(1/2 credit) Grades: 9-12**

This course is designed to give students practical applications of the Microsoft Office software. Specific projects will be completed using Word, Excel, Access and PowerPoint, while utilizing the Internet as a research tool.

Prerequisite: Digital Communications or Personal Business Computing or 3.0 GPA or higher.

Text: Shelly Cashman Vermaat. *Office 2003-- Introduction.*

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**50315 Personal Finance
(1/2 credit) Grades: 10-12
(10th graders must have a GPA of 3.0 to take this class.)**

Personal Finance is designed to prepare students to make wise financial decisions. Topics include: personal budgeting, banking services, understanding credit, taxes, investment options, risk

**50330 Accounting
(1 credit) Grades: 10-12**

Accounting is a full-year course designed to provide an understanding of the principles and procedures of accounting using both manual and electronic methods, including hands-on computer activities. Upon completion of this course, students should be able

**50363 Advanced Computer Applications
(1/2 credit) Grades: 10-12**

This course is designed to expand upon the principles learned in Computer Applications. Students will utilize problem-solving skills to develop projects that integrate Microsoft Office software.

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while accessing the Internet as a major research tool. **Microsoft Office Specialist Certification is offered at the end of the semester for a fee.**

Prerequisite: Computer Applications with a grade of C or above.

Shelly Cashman Vermaat.
Office 2003—Advance,

50394 Network Administration (CISCO) (1 credit) Grades: 10 - 12

This course provides skills students need to work in IT fields with an in-depth knowledge of networking capabilities. The course offers Web-based content, online assessment, hand-on labs, and preparation for industry certifications. CISCO certification may be obtained.

50375 Sports and Entertainment Marketing (1/2 credit) Grades: 10 – 12

This course will help students develop a complete understanding of the marketing concepts and theories that apply to sports and entertainment events. The areas this course will cover include: basic marketing, target marketing, sponsorship, event marketing, promotions, sponsorship proposals, and sports marketing plans. This course will also uncover the

components of promotion plans, sponsorship proposals and the key elements needed in sports marketing plans.

50355 Business Management (1/2 credit) Grades: 10 – 12 (10th graders must first complete Intro to Business with a C or better.)

This course will integrate an introduction into various courses of study for the future business student including: Economic Systems, Business Management, Marketing, Business Law, International Business, E-Commerce, and Human Resources.

50390 Intro to Web Design (1/2 credit) Grade 10-12

Students will study Web design principles to gain a better understanding of how to design and maintain successful Web pages. Students will utilize Macromedia Dreamweaver, and Photoshop. Upon the completion of this course, students with a grade of B or better will be eligible to take the Advanced Web Design course and manage the LHS Web Site. Carey. HTML, XHTML, and dynamic HTML. Hart and Geller. Dreamweaver8. Young, Photoshop 7.0.

50391 Advanced Web Design (1 credit) Grades: 11-12

Students will plan, design and maintain the LHS website. Additional topics include creating flash animation, advanced Dreamweaver concepts, hard coding, CSS and XHTML. Teamwork will be a major function of this course.

Prerequisite: Students must have complete Intro. to Web Design with a grade of B or higher. Carey. HTML, XHTML, and dynamic HTML. Hart and Geller. Dreamweaver8. Lopez. Flash 8.

Career and Technical Education:

**Mr. Larry Beldin
Chairperson**

50420 Fundamentals of Marketing (1 credit) Grades: 11 - 12

(College credit through Maple Woods Community College is available)

This is a full-year course for students who are interested in a career in the field of merchandising, marketing and management. This course includes instructional areas designed to provide an understanding of the

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fundamental marketing processes and orientation to the American Free Enterprise System. Seniors may combine this course with a Marketing Internship. These students will be given first priority for enrollment.

Text: Farese, Kimbrell, Woloszyk. *Marketing Essentials*

50422/50423 Marketing Internship (Grade 12)

(1 credit for 10-19 hours per week, per year)
(2 credits for 20 or more hours per week, per year)

This is a full-year internship. Students are placed in employment that directly contributes to the development of the competencies necessary for successful employment in the field of marketing. The student must be concurrently enrolled in Fundamentals of Marketing. This is a cooperative vocational education program and must follow Department of Elementary and Secondary education guidelines established for these programs.

Prerequisite: At least a 90% attendance record for grades 10 & 11.

Requirements for Internship:

1. The student must be at least 16 years old and a senior.
2. The student must complete an application

form and be approved by the teacher/coordinator.

3. The student must have an orientation meeting with parent(s), employer, and teacher present, complete required Department of Elementary and Secondary Education forms and discuss the internship policies and expectations.

50430 Cooperative Vocational Education

Grade: 12

(2 credits – class plus 10-19 hours per week of internship)

(3 credits – class plus 20 or more hours per week of internships)

Students will study self-assessment, career exploration and planning, job search skill, workplace legal matters, life skills, problem solving skills, and workplace technology.

Course Requirements: To enroll in this course students must meet the following requirements:

1. Be a senior combining this class with supervised employment.
2. Be a senior planning a career in a skilled trade, in industry, business, or health occupation.
3. Be at least 16 years old.
4. Maintain employment in a qualifying job to be eligible for the C.V.E.

class. Job placement assistance is available through the teacher-coordinator during the school year, one week after each school year ends, and one week before each school year begins.

5. Have an orientation meeting with the teacher, parent(s), and employer present and fill out the necessary papers and discuss the internship policies, expectations, and state mandated guidelines.

6. Have teacher approval for entry into the internship.

Text: Kimbrell, Vineyard.

Succeeding In the World of Work.

Communication Arts:

Mrs. Joy Ewing Chairperson

No more than one unit of speech, debate, or journalism may be counted toward the four required units of language arts. Note: Students who intend to take College Composition or AP English as seniors must have three credits of literature/composition based coursework.

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50504 Communication Arts I (1 credit) Grade 9

This course is designed to cover many aspects of communication, including reading, writing, speaking, listening, and information literacy. Literature study will include a variety of selected readings including essays, short stories, novels and plays. Composition will be a significant part of this course with specific instruction in the development of thesis statements, multi-paragraph essays, and writing for different purposes and audiences. The conventions of writing will also be emphasized. Writing will be enhanced through the use of computers and other electronic resources.

40505 Adv. Communication Arts I (1 credit) Grade: 9

Advanced Communication Arts I will focus on the analytical interpretation of literature and continued development of quality writing. Emphasis will be placed on higher order thinking skills and creativity. Students will be expected to be self-directed and must have a strong work ethic.

Prerequisites: Student must maintain an "A" (90% of better) in 8th grade Advanced Communication Arts. If a

student completes 8th grade Communication Arts with an "A+" (97% or better), he/she may apply to be moved in to 9th grade Advanced Communication Arts. The application process will consist of a written teacher recommendation and a writing sample.

40506 Advanced Communication Arts I - Gifted (1 credit) Grade: 9

This course will focus on the analytical interpretation of literature and continued development of quality writing. Students will work on developing higher level critical and creative thinking skills. The students will work on problem solving skills and future problem solving research. This communication arts class is for identified gifted students only.

50507 Communication Arts IIR (1 credit) Grades: 10-12

This course utilizes unique teaching methods to assist students in improving their reading skills. Small class sizes, peer review, "Reading 180" software and individual teacher assistance are combined to maximize student achievement. **Note: Enrollees are selected by a standardized reading**

assessment and teacher approval.

50510 Communication Arts IIC (1 credit) Grades: 10-12

This two-semester course focuses on further development of reading, writing and listening skills. Reading comprehension and critical thinking skills will be advanced through reading and discussion of various literary works. Writing instruction will center on mastery of fundamental elements of the writing process. Novels include

Monster

Prerequisite: Teacher recommendation.

50511 Communication Arts IIB (1 credit) Grade: 10-12

A two-semester course that integrates the study of literature with the writing process. Students will develop techniques for literary analysis and demonstrate attendant critical thinking skills. Finally, students will research specified topics using a variety of resources and will provide documentation consistent with MLA manuscript format. Novels include *Fahrenheit 451* and *Of Mice and Men*

50512 Communication Arts IIA (1 credit) Grades: 10

A two-semester course that focuses on reading, writing, speaking, listening, and

COURSE DESCRIPTIONS

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thinking. Students will continue to develop their skills in the reading and analysis of literature, the production of quality writing through the writing process, and the accessing, documentation, and presentation of information using oral communication and technology. They will also review grammar, usage, and mechanics and continue to develop vocabulary. This differs from Communication Arts IIB primarily in the sophistication of the literature studied and the pace of the course. Required readings will include, *A Lesson Before Dying*, *Fahrenheit 451*, and *Of Mice and Men*.

Prerequisites: Minimum of 85% in Adv. Communication Arts I and teacher recommendation.

50513 Communication Arts II Gifted (1 credit) Grade: 10

The focus will be on the integration of reading, writing, speaking and listening. This two-semester course will develop the necessary skills to write for a variety of purposes and to read and analyze selected pieces. The interdisciplinary nature of much of the course subject matter will enable the students to work within their academic strength areas in choosing a topic for the culminating presentation.

The skills covered will range from thinking strategies, language use, speaking, reading word skills, study skills and a continued emphasis on the development of quality writing by using the writing process. In addition, students will demonstrate an understanding of various literary terms and technical devices used to criticize and discuss literary effects. Students will also demonstrate the ability to access and analyze information from various resources. Students in this course are expected to maintain an A or B. **Prerequisite:** This course is for identified gifted students only.

50514 Applied Writing (1/2 credit) Grades: 11-12

This writing-based course focuses on the application of writing skills in the world of work. Students will concentrate on using the writing process in business situations.

Assignments will include such specific vocationally related writing as job applications, resumes, business letters and memos. The course also includes the identification and correction of standard usage problems in written and oral expression, review of English grammar and punctuation, and weekly vocabulary development. **SOME WORD PROCESSING MAY BE**

REQUIRED. Text: *Communicating for Success*

50515 Communication Arts III

(1 credit) Grade: 11-12

Communication Arts III is a two-semester course that focuses on further developing reading, writing, speaking, listening, and thinking skills. Students will further develop techniques for literary analysis and research. They will read, analyze, and respond in writing to various literary genres in the text *Literature and the Language Arts: The American Tradition* as well as various novels, review usage and mechanics and continue to develop vocabulary. This class is not open to students who are taking or have taken American Literature and Composition I or II.

Prerequisites: Successful completion of Communication Arts IIB or IIC and teacher recommendation.

50520 Contemporary Literature

(1/2 credit) Grades: 11-12

Contemporary Literature is a one-semester course that explores through modern novels, short stories and poems various themes and topics common to life in the late twentieth century. Students will exhibit understanding of theme, point of view, plot and

COURSE DESCRIPTIONS

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conflict in assigned works through in-class discussion and written responses. Students will also be expected to utilize both class and personal time to develop independent reading skills. Text: *Characters in Conflict*.

50519 Novel (1/2 credit) Grades 11-12

Novel is a one-semester course that addresses theme, characterization, vocabulary, and materialistic and moral concepts in the writings of primary authors acknowledged by literary critics and the Pulitzer and Nobel literary awards. The course will incorporate critical examination of ideas and structural analysis of the literature in a variety of written formats. This rigorous course will require a reading pace of 20-30 pages per day.

50523 American Literature I (1/2 credit) Grades: 11-12

American Literature is a one-semester survey of the contributions made by the diverse groups of the American tradition. The course begins with early selections of fiction and non-fiction and progresses to Civil War era literature. Students will read, analyze, and respond in writing to various literary genres. In addition to the chronological presentation of selections from the text

Literature and the Language Arts, students will read *The Scarlet Letter* and *The Crucible*. The course will emphasize process and analytical writing. This course is not open to students who have successfully completed Communication Arts III.

Prerequisite: This course is recommended for students who received a grade of "A" or "B" in Comm. Arts IIB or Adv Communication Arts IIA

50524 American Literature II (1/2 credit) Grades: 11-12

American Literature II is a one-semester survey of the contributions made by the diverse groups of the American tradition. The course begins with selections from the Civil War era and progress to the Modern era. Students will read, analyze, and respond in writing to various literary genres. In addition to a chronological presentation of selections from the text *Literature and the Language Arts*, students will read the *Adventures of Huckleberry Finn*, *The Great Gatsby*, and *Death of a Salesman*. The course will emphasize process and analytical writing. This class is not open to students who have successfully completed Communication Arts III.

Prerequisite: Successful completion of., Comm. Arts IIB, or Adv. Comm. Arts IIA.

50525 British Literature I (1/2 Credit) Grades: 11-12

British Literature I is a one semester course in which the student will survey works of early literary periods including Old English, Medieval, and Renaissance Students will read such authors as Chaucer and Shakespeare, as well as study literary techniques and vocabulary. Compositions include individual responses ranging from the writing of critical essays to creative projects and parodies. A major portfolio performance on Macbeth or Renaissance Literature is scheduled near the end of the semester. Test: *Literature and the Language Arts: The British Tradition*

Prerequisite: Successful completion of Communication Arts I, Adv Comm. Arts IIA or Communication Arts IIB.

50526 British Literature II (1/2 credit) Grades: 11-12

British Literature and Composition II is a one-semester course in which the student will survey works from the later literary periods including neoclassical, Romantic, Victorian and Modern. Compositions include individual responses ranging from creative projects to

COURSE DESCRIPTIONS

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critical essays. Text: *Literature and the Language Arts: The British Tradition* Novels include *Frankenstein and The Mayor of Casterbridge*.

Prerequisite: Successful completion of Communication Arts I, Adv Comm. Arts IIA or Communication Arts IIB

50527 Advanced Placement English Literature and Composition

(1 credit) Grade: 12

Advanced Placement English Literature and Composition is a two-semester course that examines literature of the Western world. The course begins with an analysis of dramatic works, especially those of William Shakespeare then moves to a survey of poetic expression. The focus for second semester is on fiction, with an emphasis on nineteenth-century novels. Students will refine literary analysis skills by participating in class discussions and writing lengthy essays on the works discussed. In addition, in-class essays will help students prepare for the Advanced Placement exam administered in the spring. Everyone in the class is expected to take this exam. Enrollment in this class is a one-year commitment

Recommendation: It is highly recommended that the student take British Lit., American Lit.,

Humanities, and/or Novel before taking AP English.

Prerequisite: A senior with three (3) units of English literature and composition-based coursework and a GPA of at least 3.5. Or a junior with two (2) units of English literature and composition-based coursework, a GPA of at least 3.5 AND teacher recommendation. If student has less than 3.5 GPA he/she must have written permission from the instructor.

50531 Advanced Composition (1/2 credit) Grades: 11-12

Advanced Composition is a one-semester course emphasizing critical analysis, skill development and constructive criticism of five models of writing: descriptive, narrative, expository, argumentative and persuasive.

In addition to examining models of writing and developing evaluative criteria for these models, students will maintain journal entries, produce essays based on the five models, study methods of critical thinking and write a research paper during the second quarter of the semester.

Extensive study of vocabulary and analogies and specific examination of grammar and usage issues add to the rigor of a course that has daily homework. Some word processing will be required.

Text books used: *Writing with a Purpose, The Prentice Hall Reader, Advanced Composition, A Book of Models, Writers Choice Grammar Workbook 12: Vocabulary Workshop Complete Course*

Prerequisite: Successful completion of Comm. Arts IIB or Adv Communication Arts IIA.

Note: Students planning to take College Level Composition should not take Advanced Composition.

50532 College Level Composition

(1 credit) Grade: 12

Students wishing to earn college credit for composition are encouraged to enroll in this course. Designed to assist the student in achieving competency in college-level writing, students in this course also will study and analyze readings and compose critical essays and research papers. First semester includes expository writing and reading of non-fiction models; second semester focuses on research writing and literary analysis.

Students may satisfy college requirements for freshman composition by enrolling as a Rockhurst College student (reduced tuition) and gain a total of 6 credit hours (3 each semester) that can often be transferred to their college of

COURSE DESCRIPTIONS

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choice. In addition, the student has the option to take the Advanced Placement Language and Composition exam in the spring. This is a one-year commitment

Requirement: A GPA of at least 3.5 is recommended. If the student has less than a 3.5 GPA, he must have written permission to enroll. Students with less than a 3.0 may not take the class. (An application must be submitted at enrollment to verify all requirements.)

Prerequisites: Three (3) units of English literature and composition-based coursework.

50536 Creative Writing (1/2 credit) Grades: 11-12

Creative Writing is a one-semester course in which students will develop individual creative works in the forms of poetry, drama and short story. Students will study various literary works as models and will also review the mechanics of good English grammar, punctuation and usage. Some word processing will be required.

Prerequisite: Successful completion of Communication Arts IIC, IIB or Advanced Communication Arts IIA.

50581 Humanities I (1/2 credit) Grades: 11-12

Humanities I is a one-semester course which gives students the opportunity to examine the relationships among the visual arts, music and literature of prehistoric times, The Ancient Near East, The Classical World and the Middle Ages. The course focuses on analysis and appreciation of the arts as expressions of the human experience, as well as understanding of the ideas and events of the past cultures that shaped them.

Offered in the fall semester.

Note: Humanities I and II may be taken in one year or in any other combination of semesters. If taken in one year students may apply for 3 hours of college credit through Maple Woods Community College.

50582 Humanities II (1/2 credit) Grades: 11-12

Humanities II is a one-semester course in which students will examine the relationships among the visual arts, music and literature of the Renaissance, Reformation, the Baroque Era, Neoclassicism, Romanticism, Realism, Impressionism, Post-Impressionism and the 20th Century. Like Humanities I, Humanities II focuses on analysis and appreciation of the arts as expressions of the human experience, as well as understanding the ideas and

events of the past and present cultures which shape them.

Offered in the spring semester.

Note: Humanities I and II may be taken in one year or in any other combination of semesters. If taken in one year students may apply for 3 hours of college credit through Maple Woods Community College.

40573/40574 Foundations of Journalism: Newspaper/Yearbook (1 credit) Grade: 9

These are comprehensive introductory journalism classes that are production oriented. Students are responsible for the writing, photography and computer production. Class size is limited and students are selected by application. A strong ability to combine written and photographic media is required. Foundations of Journalism is the same as the Journalism class available in grades 10-12.

Prerequisite: "A" in Communication Arts in 8th grade, and teacher recommendation.

Note: *Newspaper can be counted as an English credit or a Practical Arts credit. Yearbook can only be counted as a Practical Arts credit*

COURSE DESCRIPTIONS

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50571 Journalism

(.5 credit) Grades: 10-12

Journalism class exposes students to the basic principles of newspaper and yearbook. The course of study will include history, law, advertising principles, news reporting, editorial writing, feature writing, sports writing, page design, basic newspaper style and desktop publishing.

This class is open to any student interested in journalism.

50572 Newspaper

(1 credit) Grades: 10-12

The students selected for this class will study techniques of newspaper writing and learn to produce acceptable articles for publication in the school newspaper, The Bell.

Students will write news, features, editorials, sports and in-depth stories, and critique each other's work. Students also learn to prepare copy and design layouts. Students are required to sell advertising to help finance the publication.

Recommendations:

Sophomores, juniors or seniors who have completed either Foundations of Journalism or Journalism and can show proficiency in typing and strong writing skills.

Note: Preference will be given to those students with journalism training. Any student wishing to take

newspaper must complete a class application that is available from the instructor or the guidance office. This class can be counted as an English credit or a Practical Arts credit. Only one unit of journalism, speech or debate may count as a required English credit.

LANGUAGE ARTS ELECTIVES: The following courses WILL NOT fulfill the four (4) Language Arts graduation requirements but may be used for elective and/or Practical Arts credits.

50575 Yearbook

(1 credit) Grades: 10-12

Students selected for this class will have the responsibility of producing the high school yearbook, the Spectator. While planning the pages of the yearbook, students will be instructed in basic principles of magazine layout and graphic arts. Students will also write feature stories to be used in the various sections of the book. Students are required to sell advertising to finance publication.

Prerequisites:

Communication Arts I and Personal Business Computing (or demonstration of proficient typing skills) or present enrollment in these courses.

Note: Preference will be given to those students who have

completed Foundations of Journalism or Journalism with a B average or above. Any student wishing to take yearbook must complete a class application that is available from the instructor or the guidance office.

50577 Photojournalism

(1 credit) Grades: 11-12

Students selected for this course learn various techniques in taking and developing pictures. A primary goal is to provide pictures for the yearbook and school newspaper.

Note: By special permission only.

40576 Intro to Broadcasting

(1/2 credit) Grade: 9

Students will gain first-hand experience operating cameras, in technical and anchor roles and other positions associated with television productions. KLJH involves teamwork skills of preparation, performance, and self-evaluation. Students will learn to communicate, problem-solve, and work together effectively under the pressure of a daily performance deadline.

50578 Beginning Broadcast Journalism

(1 credit) Grade: 10-12

All students accepted in this class will learn in a practical

COURSE DESCRIPTIONS

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hands-on environment all of the aspects of broadcast production and writing, camera operation and editing.

Through individual and teamwork, students in this class will serve as associates of the official LHS news programs including KLHS-TV News. . Texts: *Television Production Today, Basics of Video Lighting, Basics of Video Production, Basics of Video Sound, Broadcast News Writing Stylebook*

Requirements: Consent of instructor via application and audition. A \$25.00 equipment fee will be assessed at the beginning of the school year for use, upkeep, and repair of the studio equipment

50579 Advanced Broadcast Journalism: News (1 credit) Grades: 10-12

Students enrolled in this class will work independently and within teams to produce KLHS, the daily news program of LHS. Students in this class will also produce the monthly newsmagazine Blue Jay Magazine, and the monthly fine arts show, It's Showtime. This class requires a significant amount of out-of-school time reporting and editing news packages.

Requirements: Completion of the Beginning Broadcast Journalism course and consent

of instructor through audition and application.

A \$25.00 equipment fee will be assessed at the beginning of the school year for the use, upkeep, and repair of the studio equipment.

50580 Adv. Broadcasting: Sports (1 credit) Grades: 10-12

Students enrolled in this class will work independently and within teams to produce the sports segments that air on KLHS, as well as the Liberty Overtime shows that air on KLPS, Channel 18.

The class requires a significant amount of out-of-school time reporting and editing sports stories.

Requirements: Completion of the Beginning Broadcast Journalism class and consent of instructor through application and/or audition.

A \$25.00 equipment fee will be assessed at the beginning of the school year for use, upkeep and repair of studio equipment.

International Languages:

**Mrs. Maria Bacoski
Chairperson**

40618 French IB (1 credit) Grade: 9

This class is the second half of French I. Students who

earned at least a grade of "C" in the IA course will continue their study of basic communicative skills, including reading, writing, speaking, and listening. Students will also study aspects of the French culture.

Only students who took the IA course in the eighth grade will be able to enroll in this course. Textbook: Bon voyage 1.

50611 French I (1 credit) Grades: 9-12

Students learn to understand orally and to speak, read and write simple sentences & questions in French. Oral work and class participation are emphasized. Students become familiar with cultural differences between the USA & France. Textbook: Bon voyage 1.

Prerequisite: Grades 9-12 must have a C or above in their Language Arts courses. Grade 8 must have a "B" or above in their Communication Arts 7 course.

50612 French II (1 credit) Grades: 9-12

Students expand their knowledge of vocabulary, grammatical concepts and cultural differences. They increase their ability to converse & write French in more complex sentence structures. Textbook: Bon Voyage 2.

COURSE DESCRIPTIONS

Note: All course descriptions are provided by Department Chairpersons and the Dept. of Curriculum and Instruction.

Prerequisite: Grade of "C" or above in French I.

50613 French III (1 credit) Grades: 10-12

Students learn the final verb tenses necessary to communicate effectively in French. They encounter numerous idioms, proverbs and non-verbal expressions. They begin a more complete study of francophone literature, history and art. Conversation and composition are stressed. Textbook: *En voyage*.

Prerequisite: "C" or above in French II.

50614 Honors French IV (1 credit) Grades: 11-12

Students begin an extensive review of grammar through a focus on oral communication and writing. Reading of authentic media aids in a more profound understanding of current issues in the francophone world. Presentations, discussions and essays prepare students to express their views on historical, literary and cultural topics. Textbooks: *Bravo!* & numerous short stories from francophone countries.

Prerequisite: "C" or above in French III.

50615 Honors French V (1 credit) Grade: 12

Students use the grammatical

and cultural understanding acquired in French IV to expand their study of the francophone world. Current events and conflicts in the francophone world are analyzed through a study of historical precedents. Proficiency in speaking, reading and understanding native speakers and writing are the goals of this course. Textbooks: *Bravo!* & numerous short stories and newspaper articles. **Prerequisite:** "B" or above in French IV

50621 German I (1 credit) Grades: 9-12

Students will learn to understand and produce oral and written German. Oral work and class participation are emphasized. Extensive individual study and practice, are an integral part of this course. Students will also become familiar with cultural aspects of German-speaking nations. Textbook: *Komm Mit I*
Recommendation: "B" or above in Language Arts.

50622 German II (1 credit) Grades: 9-12

German II will expand the four major sequential steps in foreign language learning: listening, speaking, reading & writing. A greater emphasis will be placed on the study of grammar. Students will acquire additional vocabulary

that will enable them to interact in German spontaneously in a variety of typical cultural situations. Textbook: *Komm Mit 2*.

Prerequisite: C or above in German I

50623 German III (1 credit) Grades: 11-12

Students will review German II grammar and be able to express themselves in the past, present and future tense both orally and in written activities. Conversations will be expanded and students will no longer be reactors to, but will initiate topics on a broader range of subjects. Cultural emphasis will be the literature of German-speaking countries. Textbook: *German Grammar in Review*.

Prerequisite: "C" or above in German II

50624 Honors German IV (1 credit) Grade: 12

German IV students will continue to work on grammatical concepts introduced in previous years. Through readings of varying lengths, discussion and composition topics expansion of speaking and written fluency will be central to this course. Students will be expected to speak exclusively German and to be more precise and idiomatic in their word choice.

COURSE DESCRIPTIONS

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Textbook: *German Grammar in Review*.

Prerequisite: "C" or above in German III

50631 Latin I

(1 credit) Grades: 10-12

This course introduces the student to the study of a Classical language. Latin I focuses on recognizing parts of speech, memorizing Latin vocabulary, constructing grammatically correct Latin sentences, translating brief stories from Latin to English, English to Latin and learning about Roman civilization, mythology, culture and customs.

Grade will be based on quizzes and unit exams. Students will take the National Latin Examination in March.

Recommendation: "B" or above in Communication Arts.

50632 Latin II

(1 credit) Grades: 11-12

During the first semester, Latin II will complete the study of grammar introduced in Latin I. To reinforce grammar and usage skills, students will translate passages from various authors. Students will also study Roman culture and history.

Grades will be based on quizzes, unit exams and translations.

Students will take the National Latin Examination in March.

Recommendation: "C" or above in Latin I

50633 Latin III

(1 credit) Grade 12

The focus in Latin III is on the translation of major Roman writers: Caesar, Cicero, Ovid. The study of Roman history is continued. Students will take the National Latin Examination in March.

Prerequisite: "A" or "B" in Latin II

40648 Spanish IB

(1 credit) Grade: 9

This class is the second half of Spanish I. Students who were enrolled in the IA class last year will continue their study of basic communicative skills including reading, writing, speaking and listening, as well as studying aspects of Spanish speaking cultures. Only students who took the IA course in the eighth grade will be able to enroll in this course. Textbook: *En espanol 1*.

50641 Spanish I

(1 credit) Grades: 9-12

Throughout the course, students will develop basic communicative skills: reading, writing, speaking and listening. Hispanic culture in the U.S., Mexico and Puerto Rico will be

highlighted. Textbook: *En espanol 1*.

Prerequisite: "C" or above in Communication Arts

50642 Spanish II

(1 credit) Grades: 9-12

Building on the format of Spanish I, students will increase their vocabulary and will use more complex sentence structure and grammar skills in oral and written work. Daily communicative skills will be increasingly emphasized. Students will study the geography and culture of the U.S., Mexico, and Puerto Rico. Textbook: *En espanol 2*.

Prerequisite: "C" or above in Spanish I

50643 Spanish III

(1 credit) Grades: 10-12

Spanish III will offer a review of grammar points while expanding knowledge of grammar and vocabulary. Students will concentrate on using these skills in conversation, reading and writing. During this course, students will study the geography and culture of the Spanish-speaking world. Textbook: *En espanol 3*.

Prerequisite: "C" or above in Spanish II

50644 Honors Spanish IV

(1 credit) Grades: 11-12

COURSE DESCRIPTIONS

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This course will strengthen communicative competence through everyday conversations, reading and writing. Students will improve their reading ability and expand their cultural knowledge through authentic texts from Spanish authors. Students will develop their writing skills through vocabulary expansion and reinforcement of grammar structures. Students are expected to use only Spanish in class.

Textbooks: *Continuemos!*
Conversemos
Prerequisite: "C" or above in Spanish III

50645 Honors Spanish V **(1 credit) Grade: 12**

Students will expand their knowledge of grammar and culture (literature, music, art, and film) from Spanish IV. Functional proficiency in the four skill areas of speaking, reading, writing, and understanding spoken Spanish will be the ultimate goal. Spanish only will be used during class. Textbooks: *Continuemos!*
--Conversemos

Prerequisite: "B" or above in Spanish IV

50651 Chinese I **(1 credit) Grades: 10 – 12**

Throughout the course, students will develop basic communicative skills: reading,

writing, speaking and listening. This course will also include a great deal of work with developing skills in character writing. A study of the Chinese culture will also be included.

Physical Education:

Mr. Roger Stirtz
Chairperson

40803/40804 Physical Education **(Boys and Girls)**

(1/2 credit) Grade: 9

Physical Education in the ninth grade consists mainly of team-oriented activities. These include softball, soccer, flag football, volleyball, basketball, and team handball and floor hockey. All students are expected to complete a physical fitness unit and pass the AAHPERD Health-Related Fitness Test. This course is a semester offering. (Weight training is included for both boys and girls.)

40829 Introduction to Weight Training & Physical Fitness

(1/2 Credit) Grade: 9

This is a semester course for students interested in achieving a higher level of physical fitness. Students will be provided with the opportunity to increase both their

understanding and level of health and skill-related physical fitness. Class activities will consist of weight training, aerobic workouts, and daily conditioning programs.

Students will be evaluated on class participation, exercise technique, class attendance, and knowledge of fitness.

This course may be taken in place of 9th grade P.E.

50801 Health **(1/2 credit) Grade: 9-12**

This course will reflect health issues that confront students in their teen years. Topics will include: substance abuse, teen pregnancy, smoking, conflict resolution, decision-making skills and living a balanced, healthy life-style.

50811 Team Sports I **(1/2 credit) Grades: 10-12**

This course will offer a semester of competitive activity involving team sports popular on the American scene today. Activities to be offered are touch football or fleet ball, volleyball, fitness and jogging, field hockey, pickle ball, team handball and floor hockey. Emphasis will be placed on attendance, participation, fitness, skill development and knowledge of rules and sportsmanship. Evaluation procedures used to measure student progress will be written and skill tests, two day a week

COURSE DESCRIPTIONS

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fitness conditioning workouts, daily participation and teacher observation. Physical education clothing for indoor and outdoor activities will be required. Students are expected to dress out daily.

50812 Team Sports II **(1/2 credit) Grades: 10-12**

This course will offer a semester of competitive activity involving team sports popular on the American scene today. Activities to be offered are softball, soccer, pickle ball fitness, jogging, basketball and speedball. Emphasis will be placed on attendance and participation, fitness, skill development, knowledge of rules and sportsmanship. Evaluation procedures used to measure student progress will be written and skill tests, two day a week fitness conditioning workouts, daily participation and teacher observation. Physical Education clothing for indoor and outdoor activities will be required, and students are expected to dress out daily.

50821 Lifetime Recreational Sports I

(1/2 credit) Grades: 10-12

This semester course is offered to expose and acquaint students with recreational activities that will serve and interest them beyond graduation. Activities offered

are volleyball, horseshoes, bowling, archery, fitness/jogging and aerial tennis. Grade emphasis will be placed on attendance, participation, fitness, skill development, knowledge of rules and sportsmanship. Evaluation procedures used to measure student progress will be written and skill tests, fitness conditioning workouts (two days a week), daily participation and teacher observation. Physical education clothing for indoor and outdoor activities will be required. Students are expected to dress out daily. *Bowling fee required--\$8.00.

50822 Lifetime Recreational Sports II

(1/2 credit) Grades: 10-12

This semester course is offered to expose and acquaint students with recreational activities that will serve and interest them beyond graduation. Activities offered are table tennis, orienteering, bowling, softball, fitness/jogging and badminton. Grade emphasis will be placed on attendance, participation, fitness, skill development, knowledge of rules and sportsmanship. Evaluation procedures used to measure student progress will be written and skill tests, two days a week of fitness conditioning workouts, daily participation

and teacher observation. Physical education clothing for indoor and outdoor activities will be required. Students are required to dress out daily
*Bowling fee required--\$8.00.

50830 Weight Training & Physical Fitness

(1 credit) Grades: 10-12

This is a semester course for students interested in achieving a higher level of strength and physical fitness. Students will be provided with the opportunity to increase both their understanding and level of health and skill related fitness. Class will consist of weight training, aerobic workouts, and daily conditioning programs. Students will be evaluated on class participation, exercise technique, class attendance, and knowledge of fitness.

This course may be taken in place of 9th grade P.E.

50835 Athletic Strength Training

(1 credit) Grades: 10-11
(Seniors with teacher's approval only)

Class hours: 7:00-8:20 a.m.
Students must provide their own transportation.

This course is offered to athletes who are primarily interested in developing and understanding techniques to improve their physical skills.

This course will be fourfold in the development of the athlete: (1) weight training, (2)

COURSE DESCRIPTIONS

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quickness and agility, (3) speed and jumping ability and (4) flexibility.

Class activities will consist of Olympic style weightlifting, form running, flexibility exercises, and plyometrics.

Student evaluation will be based on class participation, weight-lifting increases, and teacher observation.

Suitable physical education clothing is required. Sweats needed for outdoor activities.

Prerequisite: Subject to approval by department head, instructor and varsity head coaches.

50850 Adaptive Physical Education (1/2 credit) Grades 9-12

This semester class is offered as a diversified program of developmental activities, games, sports suited to interest, capacities, and limitations of students with disabilities who may not safely or successfully engage in unrestricted participation in vigorous activities of general physical education programs. Grade emphasis will be placed on participation, skill development, and knowledge of the rules and sportsmanship. Evaluation procedures used to measure student progress will be written and skills tests, and teacher observation. Suitable physical education clothing for

indoor and outdoor activities will be required.

50860 Sports Medicine (1/2 Credit): Grades 11-12

This semester course is offered to expose students to the profession of athletic training and sports medicine. The students will obtain an understanding in the healing process of injuries, the administration of injury prevention techniques, the treatment of athletic injuries, and rehabilitation of athletic injuries. All students are expected to become first aid, CPR, and AED certified by the American Red Cross. Grade emphasis will be placed on attendance, class and clinical participation, skills development, and knowledge of subject.

Prerequisite: Health, Biology or Integrated Science II.

Family and Consumer Science:

**Mrs. Jody Fowler
Chairperson**

50910 Child Development I (1/2 credit) Grades: 9-12

The emphasis of this semester course will focus on the responsibilities involved in

raising a child so that students will be able to make appropriate and timely decisions about having children of their own. Understanding the developmental tasks and growth patterns of children enables the students to recognize individual differences in children and peers. Students will also be introduced to a variety of career opportunities available in the area of child care.

50912 Child Development II (1/2 credit) Grades: 10-12

This course focuses on the evaluation of physical, emotional, and intellectual development of children ages 1 – 6. Through coursework and hands-on application, students will develop a broader understanding of how children respond in everyday situations. Students will also be taught parenting skills and how to relate the development of children to expectations in the home.

Prerequisite: Child Development I

50914 Child Growth and Development (1 credit) Grades: 11-12

This is a dual-credit course that provides an in depth look at child development, parenting, and childcare concepts. It focuses on development from prenatal to

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COURSE DESCRIPTIONS

Note: All course descriptions are provided by Department Chairpersons and the Dept. of Curriculum and Instruction.

age eight. Physical, emotional, social, and intellectual development is emphasized. The interrelationship of all development is stressed. Students have the opportunity to plan and teach lessons to children in the pre-school lab. Juniors and Seniors who qualify may earn 6 hours of college credit through Penn Valley Community College.

Requirement: Permission of the instructor prior to enrollment.

50440 Child Development-Care and Guidance.

Grade 12

(1 credit-class only)

(2 credits-class plus 10-19 hours per week of internship)

(3 credits-class plus 20 or more hours per week of internship)

Students will be able to construct meaning pertinent to child care, guidance and supervision as applied to the workplace. They will practice how to solve problems based upon the developmental needs of children. They will also make decisions that support the sound physical, mental and social development of children. Students will prepare and teach lessons to children in an outside facility and create a business plan for a childcare facility.

Prerequisite: Teacher approval

Priority enrollment will be as follows:

1. The student must be at least 17 years old and a senior.
2. The student must have verified employment in a qualifying job approved by teacher/coordinator.
3. The student must have an orientation meeting with teacher, parent(s), and the employer present to fill out the necessary papers and discuss the internship policies and expectations.

50915 Current Issues in Life Management

(1/2 credit) Grades: 10-12

This course focuses on the understanding of one's self and the role one plays as part of society. The study covers families, friends, dating and the issues that can effect relationships. An emphasis will be placed on making responsible choices and learning to become independent.

50918 Healthy Living

(1/2 credit) Grades: 10-12

This course will educate students in the importance of self-responsibility in achieving a healthy lifestyle. Students will study many facets of mental, emotional,

and physical health and learn how they are affected by daily choices.

50910 Food Choices

(1/2 credit) Grades: 9 – 12

Using the food pyramid as a guide, students will examine a variety of foods to learn proper preparation skills and good nutrition. There is an emphasis on menu planning, foreign foods and sport nutrition. Combining good nutrition with today's busy lifestyle and staying within a given budget will be emphasized. *(Students in grades 10-12 may test out of Food Choices in order to move into the advanced foods classes.)*

50920 Culinary Arts I

(1/2 credit) Grades: 10-12

This class is for the student who is considering a career in restaurant and food service hospitality. The course will cover career exploration, cooking methods, equipment training and entrepreneurship. There will be an \$18.00 fee for this course. Completion of this course and the passing of the national test will be a prerequisite for Culinary Arts II.

Prerequisite: Food Choices or testing out with instructor approval.

COURSE DESCRIPTIONS

Note: All course descriptions are provided by Department Chairpersons and the Dept. of Curriculum and Instruction.

50921 Culinary Arts II (1/2 Credit) Grades 10 - 12

Culinary Arts II is the next step in exploring the expanding food service industry. Hands on experience will train the student in preparation of specific foods and cuisines. Various management and marketing techniques will be examined. There will be an \$18.00 fee for this course.

This course will be available second semester only.

Prerequisite: Culinary Arts I

50315 Personal Finance (1/2 credit) Grades: 11-12 (10th graders with a GPA of 3.0 or above may also take this class.)

Personal Finance is a one-semester course designed to help students become informed consumers. This course will focus on specific consumer issues that will be encountered during life. After completing the course, students will have studied the following concepts and skills: the U.S. economic system, smart consumerism, money management, guarding against fraudulent or deceptive sales practices; socially responsible behavior.

This will be a graduation requirement beginning with the class of 2010 and may be taken through the FACS or Business Departments.

50940 Clothing I (1/2 credit) Grades: 9 - 12

Construction skills and techniques will be taught through a variety of sewing projects. Garments and craft projects will be used to illustrate that sewing can be practical, economic, and fun. Materials and supplies for the course could cost approximately \$50.00.

50945 Advanced Clothing (1/2 credit) Grades: 10-12

The student in Advanced Clothing will acquire the knowledge and skills needed to look their best and be informed consumers in today's market. In addition, an individualized plan will be developed to help students advance from where they are in terms of experience in clothing construction to acquire appropriate new skills. Some students may earn college credit through the Metropolitan Community College upon successful completion of this class. Materials and supplies for the course could cost approximately \$50.00.

Prerequisite: Clothing I

50950 Housing (1/2 credit) Grades: 10-12

This course is concerned with homes as an environment for all ages and development. Focus will be on the selection

of a home, the process of furnishing a home and trends in housing. The elements and principles of art and interior design will be applied in selected activities detailing the architecture and interior of a home.

Industrial Technology:

**TBA
Chairperson**

41010 Technology (1/2 Credit) Grade 9

This course will give students the opportunity to develop problem-solving and thinking skills through the use of technology modules and hands-on woodworking projects. Each student will have one quarter of woodworking and one quarter of modules. The modules are computer driven with an emphasis on hands-on projects. The modules are approximately seven days in length. There are twelve different modules to choose from. Some examples of modules are: Digital Video, Engines, Robots, Plastics and Polymers, Lights and Lasers, and Computer Aided Drafting Design. The woodworking part of the course will educate

COURSE DESCRIPTIONS

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students on woodworking safety and processes. Students will use hand and power tools to complete projects that may be taken home.
Fee: \$15.00

51011 Industrial Materials and Processes (1 credit) Grades 10-12

This course will introduce students to industrial safety, materials, industrial measurement and math, material processes, material grading, hand tools, fastening devices, joint construction, product assembly, machine safety and operation, modern technology and the mass production of industrial products.

Note: Each student pays a \$15.00 shop fee, plus individual project costs of approximately \$60.00 - \$80.00.
Text: Woodworking Tools, Materials, Processes

51015 Structures and Design (1 credit) Grades 11-12

This advanced course contains an in-depth study of how industry develops, designs, and produces quality products. Each student will select a major project or set of projects. The students study home purchasing, home remodeling and construction. The students are graded on daily efficiency and quality work. Each of the

students pays a \$15.00 fee plus individual material costs of approximately \$100.00-\$200.00

Prerequisites: An 80% minimum grade in Industrial Materials and Processes, successful completion of Introduction to Engineering Design and teacher recommendation.

51020 Electricity-Electronics Technology (1/2 credit) Grades: 10-12

Electricity-Electronics Technology is an introductory course in the principles of electricity-electronics technology. Course instruction involves classroom work and two kinds of laboratory work. Students will complete lab volt experiments in small groups and use the DIGIAC 3000 Computer-Based Electronic Training System to perform individual experiments and testing instruments.

Prerequisite: Successful completion of Integrated Mathematics I. Text: Electricity and Electronics Technology

51025 Power & Energy Technology (1 credit) Grades 10-12

Power and Energy Technology is a course that will focus on mechanical, hydraulic,

electrical and pneumatic systems utilized in transportation.

Students will learn the mechanical principles involved in rotary, two-and four-cycle engines, standard and automatic transmission.

Students will learn basic electricity and electronics applied in ignition charging and basic trouble shooting.

By working problem-solving experiments in a laboratory setting, students will learn basic hydraulics applied in power steering and braking systems. Text: "Auto Fundamentals"

51040 Consumer Automotive Technology (1/2 credit) Grades: 10-12

Consumer Auto Technology is a semester program of instruction that prepares students to be more intelligent owners and operators of a car.

Major areas of course content will include: purchasing a used or new car, financing a car, insuring a car, getting your car safety inspected, proper automotive maintenance, identification of common parts, the basic internal combustion engine operation, ignition, charging and fuel system operation and diagnosis, tires and balancing, drive trains, brake systems and interior and exterior maintenance. Students who have already taken Power

COURSE DESCRIPTIONS

Note: All course descriptions are provided by Department Chairpersons and the Dept. of Curriculum and Instruction.

and Energy Technology are not eligible.

Mathematics:

**Mrs. Candace Cole
Chairperson**

Various types of calculators will be needed in all math courses.

51130 Integrated Mathematics IA (1 credit) Grade: 9-12

This course is the first half of Integrated Mathematics I. It will reinforce basic arithmetic, algebra, and geometry skills needed to prepare for Int. Math IB.

Prerequisites: Teacher recommendation.

Text: Author: Rubenstein, Rheta
Title: McDougal Littell
Integrated Mathematics I

51131 Integrated Mathematics IB (1 credit) Grades: 9-12

This course is the second half of Integrated Mathematics I. Students will continue their study of topics from algebra, geometry, statistics, probability, and discrete mathematics in a way that helps students understand mathematics as a whole.

Prerequisite: Satisfactory completion of Integrated

Mathematics IA.

Text: Author: Rubenstein, Rheta N., et. al.
Title: McDougal Littell
Integrated Mathematics I

51133 Integrated Math I (1 credit) Grades: 9-12

Topics from algebra, geometry, statistics, probability, and discrete mathematics are woven together in a way that helps students understand mathematics as a whole.

Prerequisite: Teacher recommendation

Text: Author: Rubenstein, Rheta N., et. al.
Title: McDougal Littell
Integrated Mathematics I

51134 Integrated Mathematics II (1 credit) Grades: 9-12

Topics ranging from algebra, geometry, probability, statistics, logical reasoning, and discrete math are spiraled together in a way that helps students understand mathematics as a whole and will build on knowledge gained in Integrated Mathematics I.

Prerequisite: Integrated Mathematics I or Integrated Mathematics I-B

Recommendation: If a student does not achieve a grade of "C" or above, it is suggested that the student take Integrated I in summer school. **Text:**

Author: Rubenstein, Rheta N., et. al. : McDougal Littell
Integrated Mathematics 2

51136 Integrated Mathematics III (1 credit) Grade: 10-12

Topics from algebra, geometry, probability, statistics, logical reasoning, and discrete math are spiraled together in a way that helps students understand mathematics as a whole and will build on knowledge gained in Integrated Mathematics II.

Prerequisite: Completion of Integrated Mathematics II with a grade of C or above. If the prerequisite is not met, it is suggested that the student achieve a C or above in summer school Integrated II.

Text: Author: Rubenstein, Rheta N., et. al. : McDougal Littell
Integrated Mathematics 3

51138 Advanced Integrated Mathematics III (Only for students whose goal is A.P. Calculus BC) (1 credit) Grade: 10

Students in this rigorous course will study the concepts of Integrated Mathematics 3 at an accelerated rate. Topics from Algebra, geometry, probability, statistics, logical reasoning, and discrete math are spiraled together in a way

COURSE DESCRIPTIONS

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that helps students understand mathematics as a whole.

Prerequisite: Grades of “A” in Integrated Mathematics I and Integrated Mathematics II. Teacher recommendation from both courses

Text: Author: Rubenstein, Rheta N., et. al.
t: McDougal Littell Integrated Mathematics 3

51150 Probability and Statistics

(1/2 credit) Grades: 11-12

This semester course in statistics and probability will give students an introduction to the skills needed to understand and analyze quantitative information that is important in today’s society.

The topics covered include, but are not limited to, the definition of statistics, frequency distributions, graphing techniques, methods for analyzing data, and the definition of probability, rules of probability, probability distributions, and the normal distribution.

Prerequisite: Integrated Math I and Integrated Math II Text: *Statistics and Probability in Modern Life*, 6th Edition Author: Joseph Newmark

51160 Trigonometry

(1/2 credit) Grades: 11-12

The topics will include basic trigonometry functions,

trigonometric identities, half and double angle functions, laws of sine and cosine, application of sine and cosine, and application of trigonometric functions.

Prerequisite: Grade of “C” or above in Integrated Math II and Integrated Math III.

Text:
Author: Hayden, Jerome D., Betty C. Hall,
Prentice Hall *Trigonometry*

51170 Precalculus with Trigonometry

(1 credit) Grades: 11-12

A full-year course to prepare college-bound students for their first semester of calculus or Advanced Placement Calculus AB.

Prerequisites: A grade of “B” in Integrated Math II, Integrated Math III, and teacher recommendation. Text: Title: *Precalculus 4th Edition*

Author: Larson, Roland E., Robert P. Hostetler

51175 Advanced Precalculus with Trigonometry

(Only for AP Calculus BC students)

(1 credit) Grade: 11

This course will lay the foundation for Advanced Placement Calculus BC (two semesters of college calculus) during the student’s senior year. Students in this rigorous course will study topics at an accelerated rate with an

emphasis on in-depth understanding of the topics.

Prerequisite: Grade of “A” in Advanced Integrated Math III in 10th grade and teacher recommendation. Text:

Author: Larson, Roland E., Robert P. Hostetler
Title: *Precalculus 4th Edition*

51180 Advanced Placement Calculus AB

(1 credit) Grade: 12

Advanced Placement Calculus AB is a course in introductory calculus. The topics covered are consistent with those in first semester college calculus. The course is designed to help students gain skills and information needed to pass the College Board Advanced Placement Test, Calculus AB.

Prerequisite: Grade of B or above in Precalculus with Trigonometry. Text

Author: Larson, Roland E., Robert P. Hostetler
Title: *Calculus 7th Edition*

51185 Advanced Placement Calculus BC

(1 credit) Grade: 12

Advanced Placement Calculus BC studies topics consistent with those in two semesters of college calculus. The course is designed to help students gain skills and information needed to pass the College Board Advanced Placement Test, Calculus BC.

Prerequisite: Grade of A in

COURSE DESCRIPTIONS

Note: All course descriptions are provided by Department Chairpersons and the Dept. of Curriculum and Instruction.

Advanced Precalculus with Trigonometry and teacher recommendation. Text:

Author: Larson, Roland E., Robert P. Hostetler
Title: *Calculus* 7th Edition

Science
Ms. Rosemary Camp
and Ms. Mary
Coogan,
Chairpersons

41360 Science XD (Scientific Design) (1/2 credit) Grade: 9

Science XD focuses on scientific inquiry through teacher led as well as individually designed projects. There will be a heavy emphasis on use of the metric system as well as students' ability to design and complete a scientific investigation. Other focal areas will include consumer product testing and the re-creation and analysis of historical scientific discoveries. An aptitude for and positive attitude toward science is a must for this class.

41370 Microbiology and Plant Science (1/2 credit) Grade: 9

This course focuses on the diversity of living things. Students will discover that all living things, despite their

compositions, share the same basic characteristics. Students will participate in a variety of activities focused on scientific inquiry. This class will study such topics as bacteria, fungi, plants and animals.

41316 Integrated Science I (1 credit) Grade: 9

Integrated Science I includes concepts from life, physical and space sciences. The purpose of this course is to teach students about the process of scientific inquiry from multiple perspectives. Students will engage in a variety of lab activities, class discussions, group research projects, and independent study assignments in the process of developing scientific literacy.

Written assessments for the course are formatted to complement standardized exams. This course is designed to assist students in acquiring the skills they need to succeed in subsequent science coursework. Text: *Biology: Exploring Life & Physical Science: Concepts in Action with Earth and Space*, Prentice Hall, 2006.

51317 Integrated Science II (1 credit) Grades: 10-12

This course is designed to assist students in developing a knowledge base for making informed decisions about scientific initiatives. This is a

geology based course. Included in the thematic units of the course are concepts from chemistry, natural resources and energy, plate tectonics, weather and water. Throughout this course, students will engage in hands-on labs, class discussions, and group activities to develop their problem-solving skills. Grades are based upon participation in labs, projects, homework, and exams. Text: *Earth Science, Holt, 2006.*

Prerequisites: Grade of C or better in both semesters of Integrated Science I.

51318 Integrated Science III (1 credit) Grades: 11-12

Concepts common to biology, chemistry, geology, and physics will be tied together while studying nuclear energy, flight, air and genetics. The course is designed to continue building upon the concepts and skills learned during the first two years of the integrated science program. Text: *Science Interactions* by Avakian, Blaustein, McLoughlin, Reel, Thompson, Vulff, & Zitzewitz, 1999.

Prerequisite: Grade of C or better in both semesters of Integrated Science II.

51310 Life Science (1 credit) Grades: 10-12

COURSE DESCRIPTIONS

Note: All course descriptions are provided by Department Chairpersons and the Dept. of Curriculum and Instruction.

Life Science provides an introductory biology experience for students who have not been as successful in their previous science courses as anticipated. The course includes such topics as cells, DNA, ecology and biological diversity. Students will participate in lab activities, class discussion, and problem solving situations on assignments, research reports, and tests. Text: *Biology, Holt, 2006.*

Prerequisite: D or F in Integrated Science I

51085 Principles of Engineering **(1 credit) Grades 10 - 12**

This course helps students understand the field of engineering/engineering technology by exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. Topics include the design process, CAD usage, material strength testing, structural analysis, and other engineering topics. Furthermore, the course includes concerns about social and political consequences of technological change.

51315 Science, Technology and Society

(1 credit) Grades: 11-12

The main theme of this year long course is that change is occurring in our society at an ever-increasing rate and that an understanding of science can be used by individuals to cope with and give direction to that change.

Students will examine the nature of science and learn that scientific knowledge is the product of human activity. It is fallible and limited to the technologies we invent, but it is also self-correcting and constantly open to revision. The uncertain nature of science is one of the most important ideas in the course. Text: *Essential Interactions, Centre Point Learning, 2002.*

51332 Theoretical Chemistry **(1 credit) Grades: 10-12**

This introductory course provides students with a thorough understanding of fundamental chemistry concepts and mathematical applications. A comprehensive study of chemistry involves manipulation of algebraic equations. Topics of study include matter, atomic structure, the Periodic Table, chemical formulas and reactions, stoichiometry, bonding, gas behavior, and pH. Students will apply their understanding of chemistry concepts in the laboratory and on individual assessments.

Text: *Modern Chemistry, Holt, 2006.*

Prerequisite: Int. Math II (may be taken concurrently)

Note: Prerequisite for College Chemistry, AP Chemistry, Advanced Biology and AP Biology. (Theoretical Chemistry may be taken concurrently with Advanced Biology.)

51335 Honors Theoretical Chemistry

(1 credit) Grades: 10-12

This introductory chemistry course provides students with a thorough understanding of fundamental concepts requisite for advanced scientific studies. Course content is similar to that of Theoretical Chemistry with the following exceptions: topics are covered in more depth, at a faster pace, and with greater mathematical specificity. Strong mathematics skills are essential. A comprehensive study of chemistry involves manipulation of algebraic equations. Text: *Modern Chemistry, Holt, 2006*

Prerequisite: Int. Math II (may be taken concurrently).

Note: Fulfills prerequisite for Advanced Chemistry, AP Chemistry, Advanced Biology and AP Biology. (Honors Theoretical Chemistry may be taken concurrently with Advanced Biology.)

COURSE DESCRIPTIONS

Note: All course descriptions are provided by Department Chairpersons and the Dept. of Curriculum and Instruction.

51333 College Chemistry/UMKC Chem. 211 and 211L (1 credit) Grades: 11-12

This second year chemistry class is designed to explore new topics and extend on previous knowledge of chemistry. Topics will include quantum theory and atomic structure, stoichiometry, chemical reactions, gases, thermochemistry, bonding, shapes of molecules, intermolecular forces, and properties of crystalline solids.

Students will be required to complete lab reports, extended assignments, and exams. This course builds upon students' previous knowledge in preparation for AP Chemistry. Students may acquire college credit by enrolling as a UMKC student (reduced tuition) in the dual credit program. Text: *Chemistry: The Molecular Nature of Matter and Change, 4th ed., McGraw Hill.*

Prerequisite: Grade of C or better in both semesters of Theoretical Chemistry or Honors Theoretical Chemistry.

Note: This course is a prerequisite for AP Chemistry.

51334 AP Chemistry/UMKC Chem. 212 and 212L (1 credit) Grades: 11-12

Advanced Placement Chemistry is a third year chemistry course designed to expand on previous knowledge

and prepare students for earning college credit. A wide range of chemistry topics will be addressed during this course. Students will be expected to participate in rigorous instruction, complete detailed lab reports and perform successfully on exams. This course allows students to acquire college credit through the AP College Board Exam or by enrolling in the dual credit program through UMKC (reduced tuition). Text:

Chemistry: The Molecular Nature of Matter and Change, 4th ed., McGraw Hill.

Prerequisite: Grade of B or better in both semesters of College Chemistry.

51320 Biology (1 credit) Grades: 9-12

Students in this course will be introduced to the following topics: nature of science, biochemistry, ecology, cellular processes, genetics, natural selection, classification, and human body systems. Throughout the year, students will also participate in critical thinking activities, traditional lab investigations and fetal pig dissection.

Students will demonstrate understanding through development of laboratory skills, class projects, and problem solving situations, daily assignments, and tests. Text: *Biology, Prentice Hall,*

2006. **Note:** Students must earn a B or better in Biology in order to take Advanced Biology.

51340 Advanced Biology (1 credit) Grades 10 – 12

Advanced Biology is a one-year upper level course designed for those with a serious interest in biology. The first semester will focus on the structure and function of human anatomy. Students will learn about the cellular organization of tissues within organ systems. Lab exercises will involve an introduction to histology through microscopy and gross anatomical dissection. For the second semester discussion focuses on biochemistry, cell biology, microbiology, and genetics. Lab activities involve microscopy and culturing techniques and the isolation and identification of an unknown bacterium. Texts: *Fundamentals of Anatomy and Physiology, 4th Ed* by Martini, 1998 *Microbiology: Principles and Applications, 3rd Ed.* By Black, 1996.

Prerequisites: Grade of B or better in Biology and grade of C or better in Theoretical or Honors Theoretical Chemistry (may be taken concurrently).

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COURSE DESCRIPTIONS

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51325 AP Biology/UMKC BIO 102 and 102L

(1 credit) Grades: 11-12

Advanced Placement Biology is a rigorous college biology course. Topics include biochemistry, cell biology, genetics, biotechnology, botany, and zoology. Course work will involve extensive lab activities including animal behavior and dissection. Students are expected to participate in all investigations and complete detailed lab reports. In addition, students may choose to supplement their grade with authentic laboratory research. These students will conduct a literature search, develop a procedure, and collect and analyze data. Their research findings will be summarized in both written and oral reports, which they may choose to submit to various science competitions for possible awards and scholarships. This course will also provide students with an opportunity to earn college credit by enrolling in the UMKC dual credit program (reduced tuition) and/or sitting for the AP College Board Exam. Text: *Biology*, 7th Ed., Prentice Hall, 2005.

Prerequisites: Grade of C or better in Advanced Biology

and instructor's approval.

51355 Pre-AP Physics (1 credit) Grades: 11-12

Physics is the study of the laws that govern our world. The main goal of this course is to enhance problem-solving techniques. The problems will be based on the laws of physics and will involve higher-level mathematics skills.

Lecture and lab will be used to enhance the problem-solving process for the student. Grades will be based on labs, tests and quizzes. Text: *Physics*, Holt, 2006.

Prerequisites: Int. Math III, Trigonometry, or Precalculus (Trigonometry or Precalculus may be taken concurrently).

51357 AP Physics (1 credit) Grade: 12

The AP Physics course includes discussion of topics in both classical and modern physics. These topics include Newtonian mechanics, fluid mechanics, thermal physics, electricity and magnetism, and waves and optics. Knowledge of algebra and basic trigonometry is required. Understanding basic principles of physics and the ability to apply these principles in solution of problems is a major goal of this course. Text: College

Physics, 5th Ed., Prentice Hall, 2003.

Prerequisites: Grade of C or better in both semesters of Pre-AP Physics.

Social Studies:

**Kurt Gates
Sara Forsman
Chairpersons**

51512 America and the World

**(1/2 credit) Grade: 11 – 12
(This is a graduation
requirement for the graduating
classes of 2008 & 2009 only.)**

This one semester course begins with a review of the causes of World War II and the entry of the United States following Pearl Harbor and ends with the present time. Major concepts investigated will be: the global events between the world wars, World War II, the Cold War, the Civil Rights movement, and foreign affairs and domestic policies during the administrations of President Truman through President Clinton. The course will focus on domestic issues and policies of the United States as well as events occurring throughout the world.

**Textbook: *The Americans
Reconstruction through the
20th Century* by Danzer,**

COURSE DESCRIPTIONS

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Klor de Alva, Wilson, and Woloch

51510 American History (1 credit) Grade: 9-12

This one-year course begins with the Reconstruction Period and ends with the U.S. entrance into World War II. Major early concepts investigated will be: Industrialization and growth of the United States, the early 1900s, Imperialism, the Progressive Movement, Isolationism, World War I, the Depression and New Deal, causes of World War II, European and Asian involvement, and will conclude with the Japanese attack on Pearl Harbor. Students will be required to actively participate in their learning, as several unit projects will be completed.

Textbook: *Creating America: A History of the United States*

51515/51517 Advanced Placement American History I and II (1/2 credit each semester) Grade: 11-12

Advanced Placement American History I and II are semester courses designed for college-bound students. College level work is expected from students

These courses cover the political and social development of American civilization from its beginning

to the present day. The rise and development of industrialization and urbanization, along with territorial expansion and America's international role, receive attention. The first semester covers the period from discovery until the end of the Civil War. The second semester starts in 1865 and extends to the present.

The UMKC High School/transition College Program is designed to smooth the transition from high school to college, shorten the time needed to earn an undergraduate degree, avoid unnecessary duplication of curriculum and improve the study habits, general academic readiness and academic options for college bound students. Students may receive three credits of UMKC college credits per semester and/or take an Advanced Placement test to qualify.

Recommendations:

American History, Ancient European History, Modern World History and recommendation of instructor.

Prerequisites: Three (3) units of Social Studies, a GPA of 3.5 and recommendation of instructor.

Textbook: *The American Nation* by Garraty and Carnes

51519 American Government

(1/2 credit) Grade: 11 - 12

This course will emphasize the three branches of the Federal Government. Students will study how Congress makes laws, the powers of Congress, qualifications of elected officials, how the judiciary system works and powers of the President. Students will also be studying the federal and state constitutions. This course, and the Missouri and U.S. Constitution test must be passed in order to graduate.

Textbook: *United States Government Democracy in Action* by Richard Remy

51518 AP American Government (1 credit)

Grades: 11-12

Advanced Placement American Government is a year-long course designed to provide students with a complete and thorough study of the political beliefs, processes, institutions and policies of the United States. Students will closely examine and analyze political behaviors, campaigns and elections, the branches of government, public policy decisions and civil rights and liberties. In addition, state and local government, including the Missouri constitution will be studied. Material will be presented at a college level with extensive readings and

COURSE DESCRIPTIONS

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writing required. Students who take the Advanced Placement test may earn college credit with a qualifying score. This course may also be used to satisfy the American Government graduation requirement.

Prerequisites: GPA of 3.5 or higher, teacher approval

Textbook: *Challenge of Democracy* by Janda, Berry, & Goldman; *American Politics* by Cigler & Loomis

51520 World History (1 credit) Grade: 10-12

(Required for graduation for Class of 2010 and beyond)

This course traces the development of world history, especially western civilization, from the early days of civilization through the modern era. The contributions and interactions among major civilizations of Asia, Europe, Africa, the Americas, and the Middle East will be included as students study early world civilizations and cultures, classical Greece and Rome, religions of the world, the Middle Ages, Renaissance and Reformation, the Age of Exploration & Colonialism, Scientific Revolution, the Enlightenment, Revolutions, Industrialism, Imperialism, Nationalism, and 20th Century conflicts. The impact of Geography and the

economic consequences of world events will be an integral component of this course.

Textbook: *World History The Human Experience* by Karah & Karls

51531 Advanced Placement World History (1 credit) Grade: 10 only

AP World History is a college-level course that offers students a chance to earn college credit by taking an advanced placement test at the end of the year. AP World History studies the history of the world from the Neolithic Age to the present. Six themes are stressed throughout the course as it approaches the history of the world chronologically. The course is truly global in its scope with only 30% of the class time devoted to the United States and Europe. The five major time unites are as follows: Foundation (8000 BCE – 600 CE), 600 – 1450, 1450 – 1750, 1750 – 1914, and 1914 – present. Textbook: *The Earth and Its Peoples: A Global History*, Third Edition, by Bulliet, Crossley, Headrick, Hirsch, Johnson and Northrup.

Prerequisite:

Recommendation of Ninth Grade Communication Arts Teacher

51535 Advanced Placement European History (1 credit) Grade: 11-12

AP European History is a challenging, year-long course that is designed to be the equivalent of a freshman college survey course in Western Civilization. The course covers the history of Europe from the late Middle Ages to the end of the Cold War and the attempts at the unification of Europe. The major theses of the last six centuries of European history will be examined: intellectual and cultural history, political and diplomatic history, social and economic history. Students are expected to do a considerable amount of critical reading in the primary text and the various supplementary sources encountered in their research and provided by the instructor. The course also places emphasis on analytical writing (using primary and secondary sources), class discussion and research. Thus, students should possess strong reading and writing skills, and be willing to devote the necessary time to the study and completion of assignments.

Students should expect an essay assignment every three to weeks and a multiple choice test over each chapter. Twice during the academic year students will be given a

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practice AP European History test, after extensive practice on the skills necessary for success on the written portion of this test. The overall grade in this course is based upon chapter tests, written assignments, and class participation.

Prerequisites: Modern World History and a GPA of 3.5.

Textbook: *The Western Experience* by Chambers, Hanawalt, Rabb, Woloch, & Grew

SPECIAL TOPICS IN SOCIAL STUDIES:

Special Topics in Social Studies is designed to provide students an opportunity to study a particular subject more in-depth than time allows in a traditional survey course. The topics rotate on a semester basis every two years.

51537 History of the Holocaust (Offered fall semester of '07-'08, and '09-'10)

(1/2 credit) Grades 11 – 12
This one semester course will look at European Jewish life before, during and after the Holocaust. Topics will include anti-Semitism, Jewish culture and Nazi persecution of Jews and other groups as well as displaced persons camps and life after the war. Emphasis will be placed on the use of primary sources. The course will follow the guidelines

established by the U.S. Holocaust Memorial Museum.

51511 Minorities in U.S.

History (Offered spring semester of years: '07-'08, '09-'10)

(1/2 credit) Grades 11 -12

This semester long special topics course will focus on the contributions to American society by prominent women and African Americans.

Topics covered will include Early American settlement, slavery, abolition, Republic motherhood, Civil War, suffrage, segregation, progressivism, World War I, World War II, equal rights, and the Civil Rights movement.

International Relations

(Offered fall semester of even-numbered years; '08-'09, '10-'11)

(1/2 credit) Grades 11 - 12

This semester long special topics course deals with the study of international relations and how nation-states interact with each other on a global scale. Students are introduced to the discipline of international relations through an overview of international security, foreign policy, international organizations, international law and international political economy. Topics include the

Cold War, the role of the United Nations, human rights, terrorism, and diplomacy.

Kansas City Regional

History (Offered spring semester of odd-numbered years: '08-'09, '10-'11)

(1/2 credit) Grades 11 - 12

This special topics social studies course examines our regional history from Native American settlement to the present. Major topics covered will include: Native Americans, European Exploration, Westward Expansion, Border and Civil War, Industrialization, Political Machines, The Great Depression, WWI, WWII, The Civil Rights Movement, Urban Sprawl, City Planning and Urban Renewal.

51540 Contemporary Issues

(1/2 credit) Grades: 11-12

Students will identify major trends, issues, and problems confronting them in today's world. The pressing social, economic and political issues, both international and domestic, will be described, evaluated, understood and analyzed. The student will develop and employ critical thinking, reading, writing, verbal and social science skills. Topics to be covered will include foreign relations, domestic and international

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economics and the social, cultural and political trends of contemporary America.

Recommendation: Grade average of C in Social Studies classes.

*Students will be expected to write an objective research paper.

51551 Psychology I (1/2 credit) Grades: 11-12

Psychology I is an introduction to the study of human behavior. The course familiarizes students with the principles and applications of psychological study. A major goal of the class is to help students gain an understanding of themselves. Key topics covered in the course include: the brain and its effect on behavior, consciousness (sleep, mediation), memory, the learning process, personality theory, intelligence and creativity.

Textbook: *Understanding Psychology* by Kasschau

51552 Psychology II (1/2 credit) Grades: 11-12

Psychology II is a continuation of Psychology I. The emphasis in Psychology II is again to help students understand themselves and others. The class also helps students find ways to adapt, in a successful way, to life's challenges and experiences. Topics include: adolescent

development, stress management, abnormal psychology and therapy. Students also have the opportunity to carry out a research project (using the experimental method) on a topic of special interest to them.

Prerequisite: Psychology I or 3.0 GPA

Textbook: *Understanding Psychology* by Kasschau

51555 Advanced Placement Psychology (1 credit) Grade: 12

AP Psychology is a year-long college based curriculum course designed for college bound students. College level work and performance is required from students in achieving an understanding of material. The course provides an introduction to the scientific study of behavior and mental processes. An emphasis will be placed on research, learning, motivation, biology of behavior, personality, and psychopathology. Students will be exposed to psychological facts, principles, and each of the major sub fields within psychology.

Prerequisite: Cumulative G.P.A. of at least 3.0. Previous demonstration of college level school performance.

Textbook: *Discovering Psychology* by Hockenbury & Hockenbury

51560 Geography (1/2 credit) Grades: 11-12

This course will provide students the opportunity to acquire an understanding of geography of the world. Topics will cover the cultural, economic, historical, political and social information necessary to better understand the current and future problems and developments within the country or area of the world being studied.

Oral and written presentations projects, map work, current events, text assignments and other types of class exercises will be utilized during this course.

Textbook: *World Geography A Physical and Cultural Approach* by Boehm

Area Technical/Career Centers

51711/51712 Automotive Technology I & II (3 credits) Grades: 11-12

This two-year course is for students intending to enter the world of work with a marketable skill in the automotive field. Students

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receive training in all areas of Automotive Technology including engine repair, brake system, heating/air conditioning, automatic transmissions, electrical systems, steering and suspension, engine performance, fuel systems, manual drive train, and axles. Each unit consists of approximately 50% classroom work and 50% shop work applying mastered skills to customer owned vehicles.
Prerequisite: Special application required due to limited enrollment.

51721/51722 Building Trades I & II

(3 credits) Grades: 11-12

This course covers the complete process of building a single dwelling house. Instruction includes shop safety, hand tools, power equipment, blue-print reading, framing, installing doors, windows, exterior finishing, stairways and deck construction. Second year students serve as foremen for small groups of first year students.

Prerequisite: Special application required due to limited enrollment.

51731/51732 C.A.D. & Architectural Design I & II (3 credits) Grades: 11-12

This two-year course is

designed for the student who is preparing to enter the work world or headed for college in the engineering or architectural areas. Students will learn to produce drawings manually and by using Computer Aided Drafting (CAD) software, with the main emphasis on CAD drawing. Instruction includes mechanical, architectural, civil and residential plans.

Prerequisite: Special application required due to limited enrollment.

51760/51765 Electrical Trades I & II (3 credits) Grades: 11-12

This two-year course is for students planning to enter the work force as an electricians apprentice in a residential or commercial setting. Instruction includes electrical safety, basic AC and DC theory, hand tool and power tool safety, wire pulling techniques, techniques in placing and connecting switches and receptacles, and instruction on the National Electrical Code as well as local codes. This course is taught on a two-year basis with one year focusing on residential wiring and the next on commercial wiring.

Prerequisite: Special application required due to limited enrollment.

51740/51745 Computer Support I & II (3 credits) Grades: 11-12

This two-year program covers the fundamentals of computer support and computer networking. Instruction includes soldering techniques, the safe use of hand tools, electrical and general safety, fundamentals of electricity, use of test equipment, basic computer hardware, MS-DOS 6.22, Windows 95, Windows 98, Windows NT 4.0 Workstation, Windows NT Server, and Windows 2000 operating systems, computer upgrading (hardware and software), system maintenance and repair, and networking fundamentals, installation, and maintenance.

Prerequisite: Special application required due to limited enrollment.

51751/1752 HVAC I & II (3 credits) Grades: 11-12

This is a two-year course giving students the opportunity to learn about fundamentals of heating, air conditioning, refrigeration, electricity, tubing, operations and troubleshooting. They will work on sheet metal fabrication, installation practice, ice machines, freezers, furnaces, humidifiers, dehumidifiers, air conditioning, heat pumps, air cleaners and

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system design, EPA testing is offered upon completion of the course

Prerequisite: Special application required due to limited enrollment.

50710 Health Services Assistant (3 credits) Grade: 12

This is a one-year program that explores entry-level skill development in health related occupations. Instruction includes human body structure and function, medical terminology and basic patient care skills. Students participate in clinical observation at health care facilities in the second semester. Students have the opportunity to complete the Certified Nursing Assistant exam at the conclusion of this course.

Prerequisite: Special application required due to limited enrollment. Dual Credit with Maple Woods, which counts toward teacher certification in Missouri.

51781/51782 Culinary Arts I/II (3credits)Grades11-12

The restaurant/food industry is the largest private sector employer in the United States and provides a variety of opportunities. Experience in the culinary arts and restaurant industry can lead to

opportunities in catering, banquet management, public relations, and senior executive positions. There is a place for everyone in this industry. Northland Career Center's Culinary Arts Program is designed as an entry-level course. Beginning from the ground up, students will experience the sights, sounds, and aromas in a commercially equipped kitchen. Students start with basic fundamentals in terminology, sanitation, and safety, and rotate through various stations such as dishwasher, breakfast cook, lunch cook, pot-washer, and chef. Developing confidence in the basics allows students to actively participate in production of daily breakfast, lunch and occasional larger functions.

The restaurant industry is an important employer of new workers and students are encouraged to secure employment in the industry to help further their experience. The Bureau of Labor Statistics reports that job opportunities should be plentiful, and estimates an 18 percent increase in jobs over the 2000-2010 period. Increases in population, personal income, leisure time, and dual-income families will contribute to job growth in this field. **** Students who complete this program can receive up to six**

college credit hours at Johnson County Community College. **** Recommended minimum 11th grade reading level, able to work banquets after school hours.**

51701/51702 Industrial Welding I/II (3 Credits) Grades 11-12

Northland Career Center's Welding program provides the opportunity to develop skills using comprehensive training in current welding practices and procedures. Work standards set in the course enable students to obtain welding jobs and to sit for certification tests. Lab instruction begins with developing basic skills on flame cutting, fusion welding, oxygen-acetylene and shielded metal arc welding on carbon steels. Classroom instruction covers welding theory, blueprint reading, and welding terminology. Safety practices are emphasized at all times. Advanced training provides lab instruction in fabrication techniques, plasma- arc cutting, shielded metal arc welding and gas tungsten arc welding on carbon steels, aluminum and stainless steel. Classroom instruction covers welding theory, blueprint reading, welding symbols and basic metallurgy. Work quality and speed, as

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well as theory, are emphasized to enable the student to sit for required employment tests. Students successfully completing the program will be given the opportunity to take the Welding Certification Test as designed by the American Welding Society.

**Program completers can receive advanced credit through the Builders' Training Center in a registered apprenticeship craft.

**Program completers can receive up to ten hours college credit at The Metropolitan Community Colleges and Missouri Western State College.

51790/51791 Diesel Technology I/II (3 Credits) Grades 11-12

The Diesel Technology Program provides entry level skills and knowledge in all phases of diesel equipment repair, preventative maintenance, personal and shop management skills, and parts work for transportation, construction, mobile and stationary diesel equipment applications. Students who successfully complete this two year program will be prepared for an entry level diesel technician position. Students study shop safety, tools, fasteners and measuring

devices, diesel engine theory, engine component operation and repair, and functions of diesel engine systems. In the second section of the program, students study diagnostic and maintenance procedures for power trains, braking systems, hydraulic components, and steering and suspension systems. Special test equipment, repair manuals and electronic diagnostic equipment are used to complete lab assignments. Approximately one-half of the class time is devoted to lab activities, with continuous emphasis on safety. A MECHANICAL MAINTENANCE

CERTIFICATE is offered to high school seniors only. The purpose of this certificate is to provide basic concepts and skills necessary for students interested in future study of mechanics or related areas. This one year program has higher attendance and grade requirements than the regular Diesel Technology Program. **Recommended prerequisites are: math, industrial arts, drafting, electricity or metal shop.

55000 Educational Internship Program (1 credit) Grade: 12

This program is intended for seniors who are seriously considering teaching as a profession. A two-hour block will be assigned in order to work with a teacher and students within the school district. Interns will assist the teacher with classroom preparation, tutoring and small group learning activities. In addition, they will analyze their experiences through essays, case studies, and research about educational issues. A final research project and teaching demonstration will be submitted. Interns will be required to attend a few training sessions before/after school hours.

Prerequisite: Students will complete an application, write an essay of intent and obtain teacher recommendations. GPA, attendance, reliability and discipline records will be considered for selection. A final interview may be requested. Enrollment is limited.

Additional Learning Opportunities

47000 Learning Strategies (1 credit) Grade 9

Course content includes personal skills such as organization, study environment, listening, note-

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taking methods, test-taking strategy, time management, ways to read a textbook, improving memory, goal setting, as well as helping students with class work. Additionally, an individualized reading program will be implemented for those who need to strengthen their reading skills.