

COURSE DESCRIPTIONS

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

e-Liberty Classes

Various classes

(1/2 -1 credit) Grades: 11 – 12

Juniors and seniors may choose to complete a variety of courses on-line. See specific department listings for course details.

Prerequisite: 2.75 GPA or higher and a C or higher in Communication Arts I

Note: Courses currently available include: Intro to Web Design, Personal Finance, Biology I.

Business: Mr. Scott Howard, Chairperson

BU01034392 Digital Communications

(1/2 Credit) Grade: 9 ONLY

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, Hoggart, et. al. *Keyboarding and Information Processing*

BU01034301 Introduction 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*.

BU01034305 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*.

BU01034391 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, trade, 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*.

MI01996400 Personal Finance

(1/2 credit) Grades: 10-12

(10th graders with a GPA of 3.0 or above may also 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 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. This course is also available through the e-Liberty online program.** See your counselor for details.

Text: Ryan. *Managing Your Personal Finances*.

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MI02996400 e-Liberty Personal Finance

(1/2 credit) Grades: 10 – 12

This course meets the same requirements as Personal Finance (see above) but allows students the opportunity to complete the work online. Students must be able to devote at least one hour a day to the online work required to complete the course.

Prerequisite: 2.75 GPA and a C or higher in Communication Arts I.

Requirement: Home computer with broadband internet access.

BU01034355 Computer Programming

(1/2 credit) Grades: 10 – 12

Computer Programming is an introductory to an intermediate course with hands-on exposure to object-oriented programming. Students study the relationship between hardware and software, logic structures and learn how to develop algorithms for problem solving. Students will utilize 3D graphical environment to create multimedia programs. Students will achieve significant preparation for immediate and post-secondary experiences.

Prerequisite: Algebra

BU01034310 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 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 math courses.

Text: Gilbertson, Lehman. *Century 21 Accounting*

BU01034352 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 (PBC) or 3.0 GPA or higher.

Text: Shelly Cashman Vermaat. *Office 2007 -- Introduction.*

BU01034354 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. Students will receive a certificate acknowledging completion of CISCO training.

MC01040014 Sports 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.

MC01040010 Business Management

(1/2 credit) Grades: 10 – 12

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.

Prerequisite: 10th graders must have completed Intro to Business with a “C” or better.

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BU01034393 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 HTML 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. This course is also available through the eLiberty online program. See your counselor for details. HTML and dynamic HTML.

Text: Hart and Geller. *Dreamweaver8*. Young, *Photoshop 7.0*.

BU02034393 e-Liberty Intro to Web Design

(1/2 credit) Grades 11 – 12

This course meets the same requirements as Intro to Web Design (see above) but allows students the opportunity to complete the work online. Students must be able to devote at least one hour a day to the online work required to complete the course.

Prerequisite: 2.75 GPA and a C or higher in Communication Arts I.

Requirement: Home computer with broadband internet access.

BU03034393 Advanced Web Design (1 credit) Grades: 11-12

Students will plan, design and maintain the LHS website. Additional topics include creating multimedia projects, advanced Dreamweaver concepts, and collaboration through Web 2.0 tools, Javascript, PhP & CSS. Teamwork and collaboration will be a major function of this course. **Prerequisite:** Students must have completed Intro. to Web Design with a grade of B or higher. HTML, XHTML, and dynamic HTML.

Text: Hart and Geller. *Dreamweaver8*. Lopez. *Flash 8*.

MC01040001 Fundamentals of Marketing

(1 credit) Grade: 12

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 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*

(College credit through Metropolitan Community Colleges is available)

MC01040080 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.

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.

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MC01040003/MC01040081 Cooperative Vocational Education/ Internship

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*.

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Family and Consumer Science: Ms. Marla Poteet, Chairperson

FC01096826 Child Development I

(1/2 credit) Grades: 9-12

The emphasis of this semester course will focus on the responsibilities involved in pregnancy, birth and caring for an infant. This course will help the students 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.

FC02096826 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

FC03096826 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 age eight. Physical, emotional, social, and intellectual development is emphasized. The interrelationship of all development is stressed. Children's health issues and preventative care will also be emphasized. Students have the opportunity to plan and teach lessons to students in the pre-school lab. Juniors and seniors who qualify may earn college credit.

Requirement: Teacher approval.

Prerequisite: Child Development I, Child Development II

FC04096821 Child Development- Care and Guidance

(1 Credit) Grade: 12

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. This class will be taught as an independent study.

Requirement: Teacher approval

Prerequisite: Child Development I & II, plus Child Growth and Development

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.

FC05096826 Creative Experience: Child Development

(1/2 Credit) Grade: 12

This independent study will be adjusted to meet the career goals of the student while working in the preschool lab under the supervision of the preschool teacher.

Requirement: By invitation only and teacher approval

Prerequisite: Child Development I & II, plus Child Growth, Health and Development

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FC01096823 Individual and Family Living

(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 affect relationships. An emphasis will be placed on making responsible choices and learning to become independent.

FC01096840 Healthy Living

(1/2 credit) Grades: 10-12

This course will educate students in the importance of self-responsibility in achieving an all-around healthy lifestyle. Students will study many facets of mental, emotional, and physical health and learn how they are affected by daily choices.

FC01096829 Introduction to Culinary Arts (Formerly 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. Combining good nutrition with today's busy lifestyle, understanding influences on food choice and staying within a given budget will be emphasized.

(Students who are currently working in the food & hospitality industry may apply to go directly into CA I with teacher approval)

Fee: \$15

FC01096827 Culinary Arts I (ProStart I)

(1 credit) Grades: 11-12

10th Grade with preapproval from instructor

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, sanitation demands, customer service skills, nutritional demands, work ethic, business math and entrepreneurship. The student will gain certification for a Clay County Handlers license as part of the curriculum. Nationally recognized certificate from the National Restaurant Association is obtainable by completing and passing both Culinary Arts I and Culinary Arts II while working at least 400 hours in the field. A MoNRA certificate will be given for completion of course work (I & II) without the employment element. Completion of this course and the passing of the national test will be a prerequisite for Culinary Arts II.

Prerequisite: Grade of C or above in Introduction to Culinary Arts or testing out with instructor approval.

Fee: \$50.00

Additional work credit available: Students will receive ½ credit per semester for working 12+ hours a week in a food related field while taking Culinary Arts I or II. The student must have verified employment and be evaluated in a job approved by the teacher. The teacher would also have ongoing correspondence with the job supervisor about the student's progress.

FC02096827 Culinary Arts II (ProStart II)

(1 Credit) Grade: 12

(Juniors can enroll if as sophomores they were accepted into and earned a C in Culinary Arts I)

This class is for the student who is considering a career in restaurant and food service hospitality. The course will build on and continue to apply skills learned in Culinary Arts I class. This course will cover international and historical influences on the food we serve, cooking methods, sanitation demand, hotel and tourism, table service, work ethic, business math and entrepreneurship. A nationally recognized certificate from the National Restaurant Association is obtainable by completing and passing both Culinary Arts I and Culinary Arts II while working at least 400 hours in the field. A MoNRA certificate will be given for completion of course work (I & II) without the employment element.

Prerequisite: Grade C or above in Culinary Arts I

Fee: \$50.00

Additional work credit available: Students will receive ½ credit per semester for working 12+ hours a week in a food related field while taking Culinary Arts I or II. The student must have verified employment and be evaluated in a job approved by the teacher. The teacher would also have ongoing correspondence with the job supervisor about the student's progress.

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FC03096827 Creative Experience: Culinary

(1/2 Credit) Grade: 12

This independent study will be adjusted to meet the career goals of the student.

Requirement: By invitation only and teacher approval.

Prerequisite: Culinary Arts I & II

FC01096822 Textiles and Construction

(1/2 credit) Grades: 9 - 12

This course investigates why first impressions are important, how one can dress to express themselves and body image. Students also get the chance to have first hand experience with an array of fibers and fabrics. This course also gives students the chance to explore careers in textile, fashion, and garment industries. 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.

Fee: \$25.00 for swatch kit

FC02096822 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. Students investigate the styles of the past by researching decades. This course provides students the chance to research fashion designers and their importance in the history of fashion. Students create their own collection based on approved projects by the teacher. This course provides students that are serious about sewing the chance to improve upon skills acquired in Textiles and Construction and show their creativity.

Prerequisite: Textiles and Construction (formerly Clothing I)

Fee: \$10.00 for maintenance & supplies

FC03096822 Creative Experience: Fashion

(1/2 Credit) Grade: 12

This independent study will be adjusted to meet the career goals of the student.

Requirement: By invitation only and teacher approval

Prerequisite: Textile and Construction & Advanced Clothing

FC01096818 Housing

(1/2 credit) Grades: 10-12

This course is concerned with homes as an environment that meets the needs of all. 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.

FC01096814 Personal Finance

(1/2 credit) Grades: 10 – 12

(10th graders with a GPA of 3.0 or above may also take this class.)

Personal Finance is a course designed to help students become informed consumers. This course will focus on specific consumer issues that will be encountered during life. During the course, students will study: the U.S. economic system, smart consumerism, money management, guarding against fraudulent or deceptive sales practices; and socially responsible behavior. This class will help prepare students for life on their own. **(This is a graduation requirement beginning with the class of 2010 and may be taken through the FACS and Business Departments or through e-Liberty.**

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Fine Arts: Mr. Roger Kelley

Visual Arts: Debra Payne, Chairperson

AR01024100 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.

Fee: \$25.00

AR01024199 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.

Fee: \$25.00

AR01024155 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.

Fee: \$30.00

AR02024155 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.

Prerequisite: Drawing/Painting I

Fee: \$30.00

AR03024155 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. 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”

Fee: \$50.00

AR01024140 Graphic Design I

(1 credit) Grades: 10-12

In this year-long course students will explore the techniques, tools and processes used in the creation of graphic design. Students will apply elements and principles of design to each assignment. Designs will be created on Macs using Photoshop, Illustrator and Adobe InDesign 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.

Fee: \$40.00

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AR02024140 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 on the creation of a portfolio for presentation to colleges. Students will continue to develop and refine skills in Adobe Photoshop, Illustrator, and Adobe InDesign. Articulated Credit is available for students wishing to attend Graphic Design programs at Penn Valley Community College, The Art Institute-Chicago, Schaumburg, or Colorado.

Prerequisite: Graphic Design I with a "B" average.

Recommended: Drawing and Painting I previously or concurrently

Fee: \$40.00

AR01024130 Creative Photography

(1/2 credit) Grades: 10 - 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.*

Text: *Digital Imaging and Photography.* Rosen and Devries

Fee: \$40.00

AR02024130 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.*

Prerequisite: Completion of Creative Photography with a "B" average.

Fee: \$100.00

AR01024135 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.

Text: *Sculpture* by Williams

Fee: \$50.00

AR02024135 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.

Prerequisite: Sculpture I

Fee: \$50.00

AR03024135 Advanced Sculpture for College Credit

(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.

Prerequisite: Sculpture II

Fee: \$50.00

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Performing Arts: Mr. David Young, Chairperson

MU01126960 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.

MU03126960 Concert Choir

(1 credit) Grade: 9

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

MU02126960 Women's Choir I

(1 credit) Grade: 9

Women’s Choir I for Grade 9 is a full-year non-auditioned 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 breathe 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.

MU05126960 Blue Jay Singers

(1 credit) Grades: 10 - 12

This year-long intermediate level choir is open to all sophomores who participated in choir during their 9th grade year and any juniors and seniors who have had one previous year of choir as a prerequisite. Although this is not an auditioned choir, a voice placement interview is required for admission into this performing ensemble. Class curriculum will focus on continuing study of proper vocal technique and an increasing level of difficulty of sight-singing skills and performance of choral music. Students are required to participate in a variety of performances throughout the school year.

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

MU04122960 Liberty Chorale

(1 credit) Grade: 10-12

This full-year course is open to students who enjoy singing and can match pitch with their voices. This course is designed to help students discover and develop their musical abilities, especially the use of and confidence in the voice. Class curriculum focuses on the development of proper vocal techniques, sight-singing skills and music theory skills. Students are required to participate in a variety of performances throughout the school year.

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MU06126960 Women's Honor Choir

(1 credit) Grade: 11-12

This year-long, advanced-level choir is open to junior and senior treble voices through auditions held each spring. Students selected to this ensemble must have at least one year of experience in a beginning or intermediate level choir or be admitted to the group based on their audition. Students study advanced treble choir choral literature, vocal techniques, and sight-singing skills and are required to participate in many performances throughout the school year. A year-long commitment is mandatory to participate in this choir. The selection of members to this ensemble will be subject to maintaining a balance of voices in each voice part within the group.

Prerequisite: One year of experience in either Blue Jay Singers or Liberty Chorale is required. Auditions held in the spring.

MU07126960 Concert Choir

(1 credit) Grades: 11-12

This year-long, advanced-level mixed choir is open to any junior or senior through auditions held each spring. Students selected to this choir must have had at least one year of experience in another LHS choir or be admitted to the group based on their audition. Concert Choir students continue mastery of vocal technique and performance, music literacy, and independent sight-singing. Students are required to participate in many performances throughout the school year. A year-long commitment is mandatory to participate in this choir. The selection of members to this ensemble will be subject to maintaining a balance of voices in each voice part within the group.

Prerequisite: One year of experience in either Blue Jay Singers or Liberty Chorale is required. Auditions held in the spring.

MU01125510 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 \$75 rental fee (percussionists \$40).

MU02125510 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 \$75 rental fee (percussionists \$40).

MU08125520 Symphonic Orchestra

(1 credit) Grades: 9-12

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

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

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MU07125520 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 orchestra that offers them the most musical growth.

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

MU06125520 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.

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

MU01126920 Music Appreciation

(1 credit) Grade: 10-12

Music Appreciation is a class for students who want to learn about music but do 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 viewpoints 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.

SD01056500 Speech I

(1/2 credit) Grades: 9-12

(Students can only take this class once for credit.)

Students will increase their ability and confidence as speaker and presenter in the areas of discussion, persuasion, entertainment and providing information. This one-semester course introduces students 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. Students will write and deliver impromptu, extemporaneous and scripted speeches. *This course is a prerequisite for dual-credit Advanced Speech.*

SD02056500 Advanced Speech

(1 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.

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

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.

COURSE DESCRIPTIONS

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

SD01056510 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, 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.

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

SD02056510 Advanced Debate

(1 credit) Grades: 10-12

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 four interscholastic debate and forensics tournaments for the year is required.

Prerequisite: An average GPA of 3.0 in Debate I, an overall GPA of 2.5 and teacher approval.

SD01056550 Theatre Performance 9

(1/2 credit) Grade: 9

(This course may be taken one time only.)

Theatre Performance 9 is an introductory theatre course that focuses on live theatrical performances. Students will learn basic warm up techniques followed by exposure to and performances in pantomime, monologues, improvisation and short scenes demonstrating different theatrical techniques. The focus will be on creating a wide variety of believable characters and participating in script analysis.

SD03056550 Theatre for the Non-Performer

(1/2 credit) Grade: 9 -12

(This course may be taken one time only.)

Theatre for the Non-Performer is a semester long class designed to introduce students to the fundamentals of theatre. Students will spend the semester gaining a fundamental understanding of all aspects of theatre, including set design and construction, technical theatre, stage management, script analysis, costume and make-up, acting, theatre history, storytelling, and properties. In addition, students will learn about technical aspects of lighting and sound.

SD04056550 Theatre Performance I (formerly Theatre & Film)

(1 Credit) Grades: 10-12

(This course may be taken more than once for credit.)

Theatre Performance I is a semester class designed for the student interested in studying acting and performance. Students will improve their acting techniques through pantomime, improvisation, storytelling, and scripted scenes. Students will analyze scripts and produce scenes focusing on stage movement, character/plot development, and subtext. Audition pieces are learned and performed, as are short two-person scenes and ensemble scenes. Students will develop an in-depth understanding of the relationship between voice, body and character. Particular attention will be paid to the body and voice as the instrument of the actor.

COURSE DESCRIPTIONS

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

SD05056550 Theatre Performance II

(1 Credit) Grades: 11 – 12

(This course may be repeated for credit. This course may not be taken for one semester.)

Technical Performance II/Play Production is a year-long course designed for advanced theatre students who have experience in live theatrical productions. Students will spend the year producing a full length play or series of one-acts which will be performed for the public. Students will focus their course work on performance, technical theatre, or a combination of both. Students will apply advanced skills in acting, directing, scenic design, set construction, lighting design, stage management, theatre management, costume design, make-up design, and technical theatre. Students enrolled in this course will be required to spend a minimum of one week in rehearsal outside the regularly scheduled school day. Students must fulfill the co-curricular commitment in order to enroll in the class.

Prerequisite: Performance I or Technical Theatre or Stagecraft or Teacher Approval.

SD03056540 Technical Theatre I

(1 Credit) Grades: 10 – 12

Technical Theatre I/Stagecraft is a year-long class designed for the student who enjoys problem solving and working with their hands. Students will design and construct scenery using power tools and scenic materials in the scene shop. Particular attention will be paid to using math to enlarge scenery from drawings created by a scenic designer. Students enrolled in Stagecraft are an integral part of the production process at LHS/LNHS and viewing live productions provides a sense of overall accomplishment. Students will be expected to see a high school theatrical production they worked on each semester, free of charge. Appropriate clothing for working in scene shop will be a requirement.

SD04056540 Technical Theatre II

(1 Credit) Grades: 11 – 12

Technical Theatre is a year-long course designed for students interested in theatre technology. Students will apply skills in light, sound, stage management, event management, and production design. Students will design a soundscape using a sound board, microphones, and speakers. Particular attention will be paid to production design and stage management. Students enrolled in this course will be required to attend rehearsals and/or performances outside the regularly scheduled school day. Students will be assigned technical positions in the main stage shows at LHS/LNHS.

Prerequisite: Performance or Performance I or Theatre for the Non-Performer or Stagecraft or Play Production or Teacher Approval.

SD06056550 Competitive Theatre

(1 credit) Grades: 10-12

Competitive Theatre is a year-long 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 inter-scholastic 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.

COURSE DESCRIPTIONS

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

Industrial Technology: Mr. Dennis Blochlinger, Chairperson

IT01105405 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 from which to choose. 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 students on woodworking safety and processes. Students will use hand and power tools to complete projects. Completed projects may be taken home.

Fee: \$15.00

IT02105482 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*

IT03105482 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: A minimum grade of "B" in Industrial Materials and Processes, successful completion of Introduction to Engineering Design **and** teacher recommendation.

IT01105440 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 Algebra I.

Text: Electricity and Electronics Technology

IT01105410 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*

COURSE DESCRIPTIONS

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

IT01100431 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.

Note: Students who have already taken Power and Energy Technology are not eligible.

COURSE DESCRIPTIONS

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

Project Lead the Way (*Pre-Engineering & Biomedical Sciences*): Mr. Gary Pierson/Ms. Rosemary Camp, Chairpersons

ATTENTION: PLTW COLLEGE CREDIT BY EXAMINATION

Students who score an 85% or better in any of the PLTW Engineering classes have the option to take the college credit portion of the final. If the student passes the final with a score of 70% or better, he/she may apply for four (4) college credits for each class through the Rochester Institute of Technology (RIT). There is a \$200 college credit fee for each class. The registration and fee must be received by RIT before December 31st of the year the test is taken. The credits are considered “transfer” with no letter grade attached. *It is important to note that each college, university and academic program (including RIT) establishes its own policies for accepting transfer credits.* Additional information, registration and transcript request forms may be accessed through www.rit.edu/~pltw. You may also contact Darlene Slack, RIT’s director of marketing and school relations for PLTW, at (585) 475-4609 or dlsmet@rit.edu

PL01100405 Introduction to Engineering Design

(1 Credit) Grades: 9-12

This course is for students interested in Engineering and/or Architecture related fields. Units 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. College credit is available by examination for students who earn a grade of 85% or better in the course.

PL01100406 Digital Electronics

(1 credit) Grades: 10 - 12

Digital Electronics is a rigorous course in the PLTW Engineering program in applied logic that encompasses the applications 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. Topics include circuit designs and rules, Boolean algebra, logic gates, uses of different IC chips, and some simple programming. Students are expected to apply mathematical skills in the problem solving and design process. Students should expect homework assignments on a consistent basis. Strong math and reasoning skills are highly recommended. College credit is available by examination for students who earn a grade of 85% or better in the course.

Note: Each student pays a \$20.00 lab fee for this course.

Prerequisites: Either POE or IED OR Pre-AP Physics OR Teacher Approval

PL01100404 Principles of Engineering

(1 credit) Grades: 10 - 12

As part of the PLTW Engineering program, this rigorous course helps students understand the field of engineering/engineering technology. Students learn how engineers and technicians solve problems by applying math, science, and technology concepts to various technology systems and manufacturing processes. Topics and course material include design process, material strength testing, structural analysis, statics, kinematics, and robotics. Concerns about social and political consequences of technological changes are also discussed. Students will be expected to apply mathematical skills to engineering problems. Some working knowledge of Inventor software is helpful. Students should expect homework assignments on a consistent basis. College credit is available by examination for students who earn a grade of 85% or better in the course.

PL01100408 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.

Prerequisite: Introduction to Engineering Design

COURSE DESCRIPTIONS

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

PL01100422 Engineering Design and Development

(1 credit) Grades 11 – 12

This capstone course for the PLTW Engineering Program is an engineering research course in which students work in teams to develop, design and construct a solution to an open-ended engineering problem. Students apply principles developed in the preceding courses and are guided by a community mentor. They must present progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the school year. College credit is available by examination for students who earn a grade of 85% or better in the course.

Prerequisite: Intro. To Engineering Design, Principles of Engineering, and one of the following: Digital Electronics **OR** Civil Engineering and Architecture **OR** Teacher recommendation

PL01100409 Principles of Biomedical Sciences

(1 Credit) Grades 10 – 12

This introductory course provides an overview of the biomedical sciences through hands-on projects and problems. Student work involves web-based research, lab activities, class presentations, and modeling related to human body systems. The course provides an overview of human body systems and health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases.

Note: This course does not fulfill the prerequisite for AP Biology.

Prerequisite: Successful completion of Biology I

PL01100412 Human Body Systems-PLTW

(1 Credit) Grades 11-12

Students engage in the study of the processes, structures, and interactions of the human body systems. Important concepts in the course include: communication, transport of substances, locomotion, metabolic processes, defense, and protection.

The central theme is how the body systems work together to maintain homeostasis and good health. The systems are studied as “parts of a whole,” working together to keep the amazing human machine functioning at an optimal level.

Students design experiments, investigate the structures and functions of body systems, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation. Students work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries.

Note: This course does not fulfill the prerequisite for AP Biology

Prerequisite: Successful completion of Principles of Biomedical Science-PLTW

COURSE DESCRIPTIONS

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

International Languages: Mrs. Laura Snead, Chairperson

FL02064900 French IB

(1 credit) Grade: 9

This class is the second half of French I. Students will continue their study of basic communicative skills, including reading, writing, speaking and listening. Students will also study aspects of the French culture through songs, food and dance. Only students who completed the 1A course in eighth grade will be eligible to enroll in this course.

Textbook: Bien Dit 1

FL03064900 French I

(1 credit) Grades: 9-12

Students will learn to understand orally and to speak, read and write simple sentences and questions in French. Oral work and class participation are emphasized. Students will become familiar with cultural differences between the USA and France through songs, food, dances and skits.

Textbook: Bien Dit 1

FL04064900 French II

(1 credit) Grades: 9-12

Students expand their knowledge of vocabulary, grammatical concepts and cultural differences through film, international on-line resources, popular music, food and holidays. They increase their ability to converse and write French in more complex sentence structures.

Text: Bien Dit 2.

Prerequisite: Must have successfully completed French I.

FL05064900 French III

(1 credit) Grades: 10-12

Students begin a more complete study of French literature, history and art. Conversation and listening comprehension are stressed. Authentic communication is the primary goal of this course.

Text: Tresors du Temps

Prerequisite: Must have successfully completed French II.

FL06064900 Honors French IV

(1 credit) Grades: 11-12

Students will focus on authentic communication. There will be an emphasis on understanding current issues in the francophone world. Skits, presentations and discussions prepare students to express their views on historical, literary and cultural topics.

Text: Bravo! and numerous short stories from francophone countries.

Prerequisite: Must have successfully completed French III.

FL07064900 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.

Text: Bravo! and numerous short stories and newspaper articles.

Prerequisite: "B" or above in French IV

COURSE DESCRIPTIONS

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

FL03065100 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.

Text: *Komm Mit 1*

Recommendation: Grade of “A” or a high “B” Communication Arts

FL04065100 German II

(1 credit) Grades: 9-12

German II will expand the four major sequential steps in foreign language learning: listening, speaking, reading and 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.

Text: *Komm Mit 1*.

Prerequisite: German I with a grade of “B” or higher is recommended

FL05065100 German III

(1 credit) Grades: 10-12

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 on the literature of German-speaking countries.

Text: *Komm Mit 2*

Prerequisite: German II with a grade of “B” or higher is recommended.

FL06065100 German IV

(1 credit) Grade: 11 - 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 German exclusively and to be more precise and idiomatic in their word choice. Students will have the option of receiving dual college credit for this class via UMKC if academic guidelines are met.

Text: *Kontakte*

Prerequisite: Grade of “B” or above in German III is required

FL07065100 German V

(1 credit) Grade: 12

German V 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 in German and to be more precise and idiomatic in their word choice. Students will have the option of receiving dual college credit for this class via UMKC if academic guidelines are met.

Text: *Kontakte*

Prerequisite: Grade of “B” or above in German IV is required

FL01065700 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. Grades will be based on quizzes and unit exams. Students will take the National Latin Examination in March.

Recommendation: “B” or above in Communication Arts

COURSE DESCRIPTIONS

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

FL02065700 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.

Prerequisite: “C” or above in Latin I is recommended

FL03065700 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 is recommended

FL02066300 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.

Prerequisite: Successful completion of Spanish IA

FL04066300 Spanish I

(1 credit) Grades: 9-12

Throughout the course, students will develop basic communicative skills: reading, writing, speaking and listening. Hispanic culture will be highlighted.

Recommendation: “C” or above in Communication Arts

FL05066300 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. Hispanic culture will be highlighted.

Recommendation: “C” or above in Spanish I

FL06066300 Spanish III

(1 credit) Grades: 10-12

This advanced course emphasizes oral communication (speaking and listening) while reviewing previously learned grammar points as well as presenting new high-level grammar structures. Literature, history and cultures of the Spanish-speaking world are explored in greater detail. In this course students are expected to speak Spanish on a daily basis in typical classroom situations. One of the main objectives of this course is to prepare students to enter Spanish IV and V.

Recommendation: “C” or above in Spanish II

FL07066300 Honors Spanish IV

(1 credit) Grades: 11-12

This course consolidates the language skills acquired in introductory level courses and builds communicative skills using practical high frequency language applied in everyday conversations. Students will acquire cultural competency with emphasis on the literature, geography, and history of Spain. Students will be expected to speak only Spanish in class.

Text: *Continuemos! Conversemos*

Prerequisite: “B” or above in Spanish III is required

COURSE DESCRIPTIONS

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

FL08066300 Honors Spanish V

(1 credit) Grade: 12

This course prepares students to use Spanish in real-life situations by emphasizing oral communication and developing other basic language skills. Expansion of vocabulary is presented in culturally authentic context beyond the basic survival skills, setting the stage for extended discourse and debates. Only Spanish will be spoken in the classroom.

Text: *Continuemos! Conversemos*

Prerequisite: “B” or above in Spanish IV is required

FL01069010 Chinese I

(1 credit) Grades: 10 – 12

Throughout the course students will develop basic communicative skills in Mandarin Chinese: reading, writing, speaking and listening. Students will participate in a study of the Chinese culture as well as develop basic skills in character writing.

FL02069010 Chinese II

(1 credit) Grades: 11 – 12

Students will continue to develop communicative skills in Mandarin Chinese in reading, writing, speaking and listening. This course will also expand the work with developing skills in character writing. Study of the Chinese culture will continue.

Prerequisite: Chinese I

FL03069010 Chinese III

(1 Credit) Grades: 11-12

Students will continue to develop communicative skills in Mandarin Chinese in this third year of studying the language and culture. Students will work with the four competencies of reading, writing, speaking and understanding. The content goal for this course is roughly equivalent to that of a second semester (Level 200) Chinese course.

Prerequisite: Chinese II or equivalent

COURSE DESCRIPTIONS

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

Communication Arts: Mrs. Taryn MacGee, Chairperson

No more than one unit of speech, debate, or newspaper 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.

LA05054800 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.

LA06054800 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% or 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.

LA07054800 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.

LA08054800 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.

Prerequisite: English Dept. placement

Note: Enrollees are selected by a standardized reading assessment and teacher approval.

LA10054800 Communication Arts IIB

(1 credit) Grade: 10-12

This two-semester course 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*

Prerequisite: English Dept. placement

COURSE DESCRIPTIONS

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

LA11054800 Communication Arts IIA

(1 credit) Grade: 10

This is a two-semester course that focuses on reading, writing, speaking, listening, and 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: English Dept. placement. (Minimum of 85% in Adv. Communication Arts I)

LA12054800 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.

LA13054800 Communication Arts III

(1 credit) Grades: 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 *American Literature* 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.

LA14054800 Communication Arts IV

(1 credit) Grade: 12

Communication Arts IV is a two-semester course that focuses on further developing reading, writing, speaking, listening and thinking skills for students who are college-bound but not yet ready for dual-credit or advanced placement classes during their senior year. In order for students to prepare for reading and writing tasks at the college level, they need to study and practice the typical rhetorical modes and broaden their experience with diverse literature. The *Prentice Hall Reader* and possible novels *Tuesdays with Morrie*, *A Thousand Splendid Sons*, *1984*, *Lord of the Flies*, *My Sister's Keeper*, *The Book Thief*, *The House on Mango Street*.

Prerequisites: Successful completion of Communication Arts III and teacher recommendation.

LA01054804 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.

Text: *Communicating for Success*

COURSE DESCRIPTIONS

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

LA01054822 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 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*.

LA01054825 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.

LA01054821 American Literature and Composition 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 *American Literature*, 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

LA02054821 American Literature and Composition 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 *American Literature*, 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 COURSE IS NOT OPEN TO STUDENTS WHO HAVE SUCCESSFULLY COMPLETED COMMUNICATION ARTS III.**

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

LA01054823 British Literature and Composition I

(1/2 Credit) Grades: 11-12

British Literature and Composition I is a one-semester course in which students survey works of English authors from the Anglo-Saxon, Medieval, and Renaissance periods. Students will read a variety of representative selections, including *Beowulf*, *The Canterbury Tales*, and *Macbeth*. They will also study literary techniques and apply literary vocabulary to analysis of works, the results of which will be conveyed in critical essays, oral presentations and creative projects.

Texts: *Literature and the Language Arts: The British Tradition*, *Beowulf*

Prerequisites: Successful completion of Comm. Arts I and earning a grade of A or B in Adv. Comm. Arts IIA or Comm. Arts IIB.

COURSE DESCRIPTIONS

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

LA02054823 British Literature and Composition II

(1/2 credit) Grades: 11-12

British Literature and Composition II is a one-semester course in which the student will survey works of English authors from the Neoclassical, Romantic, Victorian, and Modern Periods. Students will read a variety of representative selections, including Romantic Poetry, *Frankenstein*, and *Pygmalion*. They will also study literary techniques and apply literary vocabulary to analysis of works, the results of which will be conveyed in critical essays, oral presentations, and creative projects.

Text: *Literature and the Language Arts: The British Tradition, Frankenstein, Pygmalion*

Prerequisite: Successful completion of Communication Arts I, and earning a grade of A or B in Adv. Comm. Arts IIA or Communication Arts IIB

LA02054861 Advanced Placement English Literature and Composition

(1 credit) Grade: 11-12

Advanced Placement English Literature and Composition is a year-long course in which students examine literature of the Western world. The course begins with an analysis of dramatic works, especially those of William Shakespeare, and then moves on 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 essays. In-class essays will also help prepare students for the Advanced Placement Exam administered in the spring. Extensive vocabulary development is also incorporated into the curriculum. This class is a one-year commitment and all students enrolled are expected to take the AP Exam.

Recommendation: It is highly recommended that the student take some combination of British Literature, American Literature, Novel and/or Humanities in his/her junior year before taking AP English.

Prerequisites: Seniors must have earned three (3) credits in literature - and composition-based coursework and a GPA of at least 3.5. Juniors must have earned two (2) credits in literature- and composition-based coursework and a GPA of at least 3.5 **AND** have the recommendation of their English teacher.

LA01054861 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 earn a total of six (6) credit hours (3 each semester) that can usually be transferred to their college of choice. In addition, the student has the option to take the Advanced Placement Language and Composition exam in the spring. **This course** is a one-year commitment.

Requirement: Must have a GPA of at least 3.5. If the student has less than a 3.5 GPA, he or she must have written permission from the instructor. Students with less than a 3.0 may not take the class. Students in this class and their parents are required to sign a contract.

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

LA01054805 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.

COURSE DESCRIPTIONS

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

LA01054828 College 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.

Text: *The Western Humanities*

Note: Offered in the fall semester. Humanities I and II may be taken in one year or in any other combination of semesters.

Dual Credit: Students who take Humanities I and II in the same year and who have earned a GPA of at least 3.0 may also apply for three (3) hours of credit through The Metropolitan Community College – Maple Woods.

Prerequisites: Students must have earned an A or B in Adv. Comm. Arts IIA or Comm. Arts IIB and have a cumulative GPA of at least 3.0.

LA02054828 College Humanities II

(1/2 credit) Grades: 11-12

Humanities II is a one-semester course which gives students the opportunity to 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(d) them.

Text: *The Western Humanities*

Note: Offered in the spring semester. Humanities I and II may be taken in one year or in any other combination of semesters.

Dual Credit: Students who take Humanities I and II in the same year and who have earned a GPA of at least 3.0 may also apply for three (3) hours of credit through The Metropolitan Community College – Maple Woods.

Prerequisites: Students must have earned an A or B in Adv. Comm. Arts IIA or Comm. Arts IIB and a cumulative GPA of at least 3.0.

JR05054830 Foundations of Journalism: Newspaper

(1 credit) Grade: 9

This is a comprehensive introductory journalism class that is 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

JR01054810 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.

COURSE DESCRIPTIONS

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

JR01054830 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, which is a public forum for student work. 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.

JR01054809 Mass Media

(1 credit) Grade: 9

This is a comprehensive introductory journalism class that is production oriented. Students are responsible for the writing, photography and computer production. Class size is limited and students are selected by application.

Elective class only. Does not count for English graduation credit.

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

JR03054830/JR04054830 Advanced Publications: Newspaper/Yearbook

(1 credit) Grades: 11 – 12

Advanced Publications is a two-semester course designed to assist students in in-depth production of publications including implementation of leadership and people skills, advanced writing techniques, elements and concepts of advanced layout and design, application of current trends and professional concepts.

Prerequisites: Yearbook or Newspaper. Students enrolled in the course must complete a class application and be an editor of the yearbook or newspaper and be approved for enrollment by the advisor.

NOTE: By special permission only.

JR02054830 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.

JR01054811 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.

COURSE DESCRIPTIONS

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

JR01056530 Introduction to Broadcasting

(1 credit) Grade: 9

Students will gain first-hand experience operating cameras as well as performing 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.

JR02054810 Beginning Broadcast Journalism

(1 credit) Grades: 10-12

All students accepted in this class will learn in a practical hands-on environment all of the aspects of broadcast production and writing, camera operation and editing. Through individual work 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: A \$25.00 equipment fee will be assessed at the beginning of the school year for use, upkeep, and repair of the studio equipment

JR04054810 Advanced Broadcast Journalism: News

(1 credit) Grades: 10-12

Students enrolled in this class will work independently and within teams to produce the official news programs of LHS including the daily KLHS-TV News. This class requires a significant amount of out-of-school time reporting and editing news packages.

Requirements: Completion of an introductory broadcasting 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.

JR03054810 Adv. Broadcasting: Sports

(1 credit) Grades: 10-12

Students enrolled in this class will work independently and within teams to produce the official news programs of LHS including the daily KLHS-TV News. This class requires a significant amount of out-of-school time reporting and editing news packages.

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.

COURSE DESCRIPTIONS

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

Mathematics: Mrs. Candace Cole, Chairperson

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

MA01115810 Algebra IA

(1 credit) Grade: 9-12

This course is the first half of Algebra I. Algebra IA is organized around families of functions with special emphasis on linear functions. Students will learn to evaluate, write and solve algebraic expressions, equations and inequalities. Functions will be represented in multiple ways – using verbal descriptions, equations, tables and graphs. These functions will be applied and used to model real world situations in order to solve arising problems.

Prerequisites: Teacher recommendation.

Text: Author: Larson, Ron, et. al. McDougal Littell *Algebra I*

MA02115810 Algebra IB

(1 credit) Grades: 9-12

This course is the second half of Algebra I. Algebra IB is organized around the families of functions, with special emphasis on linear functions. Students will learn and use properties of exponents and explore situations of functions, exponential growth and decay. Properties of polynomials will be explored, focusing on quadratic functions and the real-life situations represented by these functions. Students will find probabilities and odds; learn to analyze data collection devices and data.

Prerequisite: Satisfactory completion of Algebra IA.

Text: Larson, Ron, et. al. McDougal Littell *Algebra I*

MA03115810 Algebra I

(1 credit) Grades: 9-12

Algebra I is organized around the families of functions, with special emphasis on linear and quadratic functions. Students will learn to represent them in multiple ways – as verbal descriptions, equations, tables, and graphs. These functions will be applied and used to model real-world situations in order to solve arising problems. Students will also learn data analysis and apply geometric properties in the algebraic realm.

Prerequisite: Teacher placement

Text: Larson, Ron., et. al. McDougal Littell *Algebra I*

MA01115865 Geometry

(1 credit) Grades: 9-12

Geometry is the study of figures, their properties, and their role in the world around us. Students will learn how to identify, measure, describe and classify geometric figures such as lines, triangles, quadrilaterals, circles and various solid figures. Students will use reasoning skills and known properties to explore and prove certain relationships such as congruence, similarity, and transformations.

Prerequisite: Algebra I or Algebra IB

Recommendation: If a student does not achieve a grade of “C” or above in Algebra I, it is suggested that the student take Algebra I in summer school.

Text: Larson, Ron, et. al. McDougal Littell *Geometry*

COURSE DESCRIPTIONS

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

MA04115810 Algebra II

(1 credit) Grade: 10-12

Algebra II continues the study of algebra, the representation of quantities using variables and mathematical operations to show relationships. Students will represent relationships and functions with linear equations and explore relationships of direct and indirect variation. Students will explore quadratic functions and perform operations with complex numbers. Polynomials and their properties will be explored and graphed. Students will explore exponential relationships, logarithmic functions and probabilities.

Prerequisite: Completion of Algebra I or IB.

Recommendation: If a student does not achieve a grade of “C” or above in Algebra I, it is suggested that the student take Algebra I in summer school.

Text: Author: Larson, Ron., et. al. McDougal Littell *Algebra II*

MA05115810 Advanced Algebra II

(Only for students whose goal is A.P. Calculus BC)

(1 credit) Grade: 10

Students in this rigorous course will study the concepts of Algebra II at an accelerated rate. Algebra II continues the study of algebra, the representation of quantities using variables and mathematical operations to show relationships. Students will represent relationships and functions with linear equations and explore relationships of direct and indirect variation. Students will explore quadratic functions and perform operations with complex numbers. Polynomials and their properties will be explored and graphed. Students will explore exponential relationships, logarithmic functions and probabilities.

Prerequisite: Grades of “A” in Algebra I and Geometry. Teacher recommendation from both courses

Text: Author: Larson, Ron, et. al. McDougal Littell *Algebra II*

MA01115875 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: Algebra I or IB and one additional year of mathematics above Algebra I.

Text: *Elementary Statistics, 3rd Edition* Author: Ron Larson and Betsy Farber

MA01115860 Trigonometry

(1/2 credit) Grades: 11-12

Trigonometry is the study of angles of the right triangle and their relationships to the lines that form them. This branch of mathematics has its greatest impact in the areas of drafting, physics, engineering, computer technology and electronics.

The topics will include basic trigonometry functions, trigonometric identities, half and double angle functions, law of sine and cosine, and application of trigonometric functions.

Prerequisite: Completion of Geometry and Algebra II.

Text: Pearson *Trigonometry, 8th Ed.*, Lial, Margaret L., et. al.

MA01115861 Precalculus with Trigonometry

(1 credit) Grades: 11-12

This full-year course prepares college-bound students for their first semester of calculus or Advanced Placement Calculus AB.

Prerequisites: Completion of Geometry and Algebra II, and teacher recommendation.

Text: Title: *Precalculus 7th Edition*, Larson, Roland E., Robert P. Hostetler

COURSE DESCRIPTIONS

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

MA02115861 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 Algebra II in 10th grade and teacher recommendation.

Text: Larson, Roland E., Robert P. Hostetler, *Precalculus 7th Edition*

MA01115866 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: Larson, Roland E., Robert P. Hostetler, *Calculus 7th Edition*

MA02115866 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 Advanced Precalculus with Trigonometry and teacher recommendation.

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

COURSE DESCRIPTIONS

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

Physical Education: Mr. Roger Stirtz, Chairperson

PE01086000 Physical Education (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 physical fitness activities and work toward making individual fitness gains as measured by the FitnessGram. Students must also pass the AAHPERD Health-Related Fitness Test. This course is a semester offering. (Weight training is included for both boys and girls.)

PE01086025 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 and evaluating individual fitness gains as measured by the FitnessGram. 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.

PE010853000 Health (1/2 credit) Grades: 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. This course does not count for P.E. credit

PE01086035 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 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. Individual fitness gains will be measured by the FitnessGram. 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. Students are expected to dress out daily.

PE02086035 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. Individual fitness gains will be measured by the FitnessGram. 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.

PE01086030 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, archery, fitness/jogging and aerial tennis. Individual fitness gains will be measured by the FitnessGram. 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.

COURSE DESCRIPTIONS

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

PE02086030 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, softball, fitness/ jogging and badminton. Individual fitness gains will be measured by the FitnessGram. 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

PE01086025 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. Individual fitness gains will be measured by the FitnessGram. 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.

PE02086025 Athletic Strength Training

(1 credit) Grades: 10-12 (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) 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.

PE01086010 Adaptive Physical Education

(1/2 - 1 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. Prerequisite: By teacher approval only

PE01085310 Sports' Medicine

(1/2 Credit): Grades 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. Grade emphasis will be placed on attendance, class and clinical participation, skills development, and knowledge of subject. (This course does not count for P.E. credit.)

Prerequisite: Health, Biology I

COURSE DESCRIPTIONS

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

Science: Ms. Rosemary Camp, Chairperson

SC02134299 SCIENCE XD

(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. This course will be offered spring semester only in odd-numbered years (spring 2011, 2013, etc.)

NOTE: This course does not count for science credit. (elective credit only)

SC01134299 PLANT SCIENCE

(1/2 credit) Grade: 9

This course focuses on the diversity of plants and provides students with an introduction to plant growth, structures, and the relationships among form and function. Students will discover that all living organisms, despite their unique compositions, share similar characteristics and will participate in a variety of activities focused on scientific inquiry. Students will develop scientific processing skills in the areas of observation, measurement, hypothesizing, data gathering, interpretation, analysis, and application. This course will be offered in the fall semester only. **NOTE: This course does not count for science credit. (elective credit only.)**

SC01136000 Global Science Issues

(1/2 credit) Grade: 9

This course will allow students to investigate current issues in science in order to understand the complex relationships between the various branches of science, technology and human activity. Students can expect to engage in a variety of topical activities focused on scientific inquiry and investigation. This course will be offered spring semester only in even-numbered years (spring 2010, 2012, etc.)

NOTE: This course does not count for science credit (elective credit only)

PL01100409 Principles of Biomedical Sciences - PLTW

(1Credit) Grade: 10 - 12

This introductory course provides an overview of biomedical sciences through hands-on projects and problems. Student work involves web-based research, lab activities, class presentations and modeling related to human body systems. The course provides an overview of human body systems and health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases.

Note: This course does not fulfill the prerequisite for AP Biology

Prerequisite: Successful completion of Biology I

PL01100412 Human Body Systems-PLTW

(1 Credit) Grades: 11-12

Students engage in the study of the processes, structures, and interactions of the human body systems. Important concepts in the course include: communication, transport of substances, locomotion, metabolic processes, defense, and protection.

The central theme is how the body systems work together to maintain homeostasis and good health. The systems are studied as "parts of a whole," working together to keep the amazing human machine functioning at an optimal level.

Students design experiments, investigate the structures and functions of body systems, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation. Students work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries.

Note: This course does not fulfill the prerequisite for AP Biology

Prerequisite: Successful completion of Principles of Biomedical Science-PLTW

COURSE DESCRIPTIONS

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

SC01134200 Biology I

(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 mammal dissection. Students will demonstrate understanding through development of laboratory skills, class projects, problem-solving situations, daily assignments, and tests.

Note: Students who complete this course are required to take the DESE End of Course Exam in Biology.

Text: *Biology*, Prentice Hall, 2006

SC01134215 Environmental Science

(1 Credit) Grades: 10-12

Students taking Environmental Science will have the opportunity to develop an understanding of current issues related to environmental issues and will examine alternative solutions for resolving or preventing them. Topics of study will include global change, pollution, energy resources and consumption, land and water use, and population dynamics. The ability to apply scientific principles in the discussion and solution of environmental issues is a major goal.

Text: *Global Science, 4th ed.*, Kendall Hunt Publishing

Prerequisites: successful completion of Biology I

SC01134220 Zoology

(1 Credit) Grade: 10-12

This course combines the principles of zoology, emphasizing levels of organization and life processes common to all organisms. Topics range from nutrient processing and homeostasis to reproduction and taxonomic classification. Students will engage in a survey of organisms and will participate in a wide variety of lab opportunities including investigations in animal behavior and dissection of both vertebrates and invertebrates.

Prerequisite: Successful completion of Biology I

SC03134200 Honors Biology I

(1 credit) Grade: 9

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. While the course content is similar to Biology I, the Honors Biology I classes will conduct more in-depth laboratory investigations with greater statistical analysis and more technical writing of laboratory reports. Throughout the year, students will also participate in critical thinking activities, traditional lab investigations and mammal dissection. Students will demonstrate understanding through development of laboratory skills, class projects, problem-solving situations, daily assignments, and tests.

Note: Students who complete this course are required to take the DESE End of Course Exam in Biology.

Text: *Biology*, Prentice Hall, 2006.

SC02134200 e-Liberty Biology I

(1 credit) Grades: 11 – 12

e-Liberty Biology I offers juniors and seniors the ability to complete a biology credit in an on-line format. The course is designed for students who are not planning to proceed further in their study of biological sciences, as it does not meet the prerequisite for Biology II.

Note: Students who complete this course are required to take the DESE End of Course Exam in Biology.

COURSE DESCRIPTIONS

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

SC04134200 Biology II / UMKC BIO 102 and 102L

(1 credit) Grades: 10 – 12

Biology II is a year-long upper-level course designed for those with a serious interest in biology. The first semester will focus on biochemistry, cell biology, microbiology, and genetics. Lab activities involve microscopy, culturing techniques and the isolation and identification of an unknown bacterium. For the second semester, discussion focuses on the structure and function of human anatomy. Students will learn about cellular organization of tissues within organ systems. Lab exercises will involve an introduction to histology through microscopy and gross anatomical dissection. This course is equivalent to a first semester, non-major level biology class and students may acquire college credit by enrolling in the dual credit program through UMKC (reduced tuition)

Note: This course is a prerequisite for AP Biology

Texts: *Fundamentals of Anatomy and Physiology*, 4th Ed. Prentice Hall, 1998; *Introduction to Microbiology: A Case History Approach*, 3rd Ed. Thomson, 2004.

Prerequisites: Theoretical or Honors Theoretical Chemistry (May be taken concurrently) and a grade of B or better in both semesters of Biology I.

SC05134200 AP Biology/UMKC BIO 108 and 108L

(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 both semesters of Biology II.

SC01134600 Conceptual Chemistry

(1 credit) Grades: 10 – 12

In this course students will investigate the properties and changes of matter from a conceptual perspective. Topics to be learned include behavior of matter, atomic structure, energy changes, chemical reactions, and nuclear reactions. Students should expect to participate in a variety of hands-on laboratory experiences to reinforce the content discussed in class.

Text: *Conceptual Chemistry*, 3rd Ed, Prentice Hall, 2007.

Note: This course does not meet the prerequisite for College Chemistry or Biology II.

SC02134600 Theoretical Chemistry

(1 credit) Grades: 10-12

This introductory course provides students with a thorough understanding of fundamental chemistry concepts. A comprehensive study of chemistry involves manipulation of algebraic equations; therefore, good math skills are important. Students should expect to use algebra in performing calculations throughout the course. 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: Successful completion of Algebra I

Note: Fulfills prerequisite for College Chemistry and Biology II. (Theoretical Chemistry may be taken concurrently with Biology II.)

COURSE DESCRIPTIONS

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

SC03134600 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. A comprehensive study of chemistry involves manipulation of algebraic equations and strong mathematical skills are essential. **Text:** *Modern Chemistry*, Holt, 2006

Prerequisite: Successful completion of Algebra I

Note: Fulfills prerequisite for College Chemistry and Biology II. (Honors Theoretical Chemistry may be taken concurrently with Biology II.)

SC04134600 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, thermo chemistry, bonding, shapes of molecules, intermolecular forces, and properties of crystalline solids. Students are expected to exhibit good study skills and will be required to complete lab reports, homework assignments, and perform successfully on exams. This course builds upon students' previous knowledge in preparation for AP Chemistry. This course is equivalent to the first semester of a major's level college chemistry course and students may acquire college credit by enrolling in the dual credit program through UMKC (reduced tuition).

Text: *Chemistry: The Molecular Nature of Matter and Change, 4th ed.*, McGraw Hill, 2006

Prerequisite: Successful completion of Theoretical Chemistry or Honors Theoretical Chemistry.

Note: Prerequisite for AP Chemistry.

SC05134600 AP Chemistry/UMKC Chem. 212 and 212L

(1 credit) Grade: 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 are addressed. Students are 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: Successful completion of College Chemistry.

SC01135900 Conceptual Physics

(1 credit) Grades: 10 – 12

While physics involves the study of natural laws, the main goal of this course is to facilitate the understanding of the concepts of physics without requiring a profound understanding of mathematical applications. Course content will focus upon motion, heat, and thermodynamics, sound and hearing, light and seeing, electricity, and magnetism.

Text: *Conceptual Physics, 10th Ed.*, Addison Wesley, 2006.

Prerequisite: Successful completion of Algebra I

Note: This course is **not** a prerequisite for Pre-AP Physics. This course does **not** meet the prerequisite for AP Physics.

SC02135900 Pre-AP Physics

(1 credit) Grades: 11 -12

Physics is the study of the laws that govern our world. The main goals of this course are to enhance problem-solving techniques and to gain a deep understanding of some of the fundamental concepts that govern physics. Course content will focus upon force and motion, trajectories, electricity, and magnetism. Students are expected to demonstrate higher-level mathematics skills in the problem solving process. Lecture and lab will be used to enhance the course for students. Grades will be based on homework, labs, tests and quizzes.

Text: *Physics*, Holt, 2006.

Prerequisites: Geometry or Algebra II (may be taken concurrently) **OR** Teacher approval

COURSE DESCRIPTIONS

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

SC03135900 AP Physics

(1 credit) Grade: 12

AP Physics 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. This course allows students to acquire College Credit through the AP College Board Exam.

Text: *Physics, 5th Ed.*, Prentice Hall, 2003.

Prerequisites: Successful completion of Pre-AP Physics OR Teacher approval

SC01133800 Earth and Space Science

(1 credit) Grades: 10-12

This course is designed to assist students in developing a knowledge base for making informed decisions about scientific initiatives in the context of geological principles. Included in the units of the course are concepts related to rocks and minerals, natural resources and energy, plate tectonics, weathering and erosion, atmosphere, and space. 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.

Note: Course content is similar to Integrated Science II and should not be taken by students who have completed Integrated Science II.

SC02135000 Advanced Science Topics

(1 credit) Grades: 11-12

Concepts from 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 content learned in previous science coursework and is considered to be an upper-level science elective.

Text: *Science Interactions*, McGraw Hill 1999.

Prerequisite: Grade of C or better in previous science course.

Note: Course content is the same as Integrated Science III and should not be taken by students who have completed Integrated Science III.

SC01134642 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.

PL01100404 Principles of Engineering - PLTW

(1 credit) Grades: 10 - 12

As part of the PLTW Engineering program, this is a rigorous course that helps students understand the field of engineering/engineering technology. Students learn how engineers and technicians solve problems by applying math, science and technology concepts to various technology systems and manufacturing processes. Topics and course material include design process, material strength testing, structural analysis, statics, kinematics, and robotics. Concerns about social and political consequences of technological changes are also discussed. Students will be expected to apply mathematical skills to engineering problems. Some working knowledge of Inventor software is helpful. Students should expect homework assignments on a consistent basis. College credit is available by examination for students who earn a grade of 85% or better in the course.

COURSE DESCRIPTIONS

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

Social Studies: Mr. Kurt Gates & Ms. Sara Forsman, Chairpersons

SS01156661 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.

Text: *The Americans*

SS03156661/SS04156661 Advanced Placement American History I and II

(1/2 credit each semester) Grade: 11-12

Advanced Placement American History I and II / Dual Credit American History I and II are semester courses designed for college-bound students. College level work is expected from students in the areas of reading and writing. These courses cover the political, economic and social development of American civilization from its beginning to the present day focusing on a variety of themes while studying through the chronology of US history. The first semester covers the period from discovery until Reconstruction. The second semester starts in 1877 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, World History and recommendation of instructor.

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

Text: *America's History* by Henretta, Brodyk, Dumenil, and Ware.

SS01156651 American Government & Economics

(1 credit) Grade: 11 – 12

This course will examine the principles of constitutional democracy in the United States, the relevance and connection of constitutional principles, processes of government systems including campaigns and elections, the relationships among the three branches of government, and compare different government systems. Students will also be studying the federal and state constitutions. In addition, students will study basic economic concepts including supply and demand, factors of production, scarcity, inflation, and monetary and fiscal policies. Different economic systems will be compared with special focus on the characteristics of a market economy and the role of the government. This course, along with the Missouri and U.S. Constitution test, must be passed in order to graduate.

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

SS02156651 Advanced Placement 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 reading and 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

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

COURSE DESCRIPTIONS

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

SS01156663 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.

Text: *World History. The Modern Era* by Ellis and Esler

SS02156663 Advanced Placement World History

(1 credit) Grades: 10

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 units are as follows: Foundation (8000 BCE – 600 CE), 600 – 1450, 1450 – 1750, 1750 – 1914, and 1914 – present.

Text: *World Civilizations The Global Experience*, 5th ed., by Stearns, Adas, Schwartz, and Gilbert **Prerequisite:** Minimum GPA of 3.5 or higher OR teacher recommendation

Note: Students may not take AP World History if they have completed World History.

SS02156667 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 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.

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

Note: Students may not take AP Government if they have completed American Government.

COURSE DESCRIPTIONS

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

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 every two years.

SS02156660 History of the Holocaust

(Offered fall semester of odd-numbered school years: '09-'10, '11-'12)

(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.

SS01156685 Minorities in U.S. History

(Offered spring semester of even-numbered school years: '10-'11, '12-'13)

(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.

SS01156652 International Relations

(Offered fall semester of even-numbered school years; '10-'11, '12-'13)

(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.

SS01156660 Kansas City Regional History

(Offered spring semester of odd-numbered school years: '09-'10, '11-'12)

(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.

SS01156620 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 economics and the social, cultural and political trends of contemporary America.

Recommendation: Grade average of B in Social Studies classes.

COURSE DESCRIPTIONS

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

SS01156100 Psychology I

(1/2 credit) Grades: 11-12

Psychology I is an introduction into 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.

Text: *Understanding Psychology* by Kasschau

SS02156100 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

Text: *Understanding Psychology* by Kasschau

SS03156100 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: G.P.A. of at least 3.0 and previous demonstration of college level school performance.

Text: *Psychology, 8th ed.*, Myers

SS01156640 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.

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

COURSE DESCRIPTIONS

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

Area Technical/Career Centers

Northland Career Center in Platte City and the Area Career Center in Excelsior Springs offer both morning and afternoon sessions. Students need to check with their counselors to determine the number of credits needed to graduate and additional courses recommended. Student selection for the Career Centers is based on successful completion of prerequisites, good school attendance, grade point average, standardized test scores and an interest in career and technical education. Upon successful completion of a one or two-year course, the student will receive a certificate and list of complete competencies.

Apprenticeship: After meeting eligibility requirements, students may receive advanced placement on the beginning wage scale upon admission to one of several apprenticeship programs. See your counselor for specific eligibility requirements.

Community College Credit: Students may earn from 3 to 17 credit hours at Metropolitan Community Colleges after successful completion of designated programs. The actual credit varies from program to program. See your counselor for more information.

Prerequisite: Application Required For All Programs Due to Limited Enrollment

TI01170302/TI02170302 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 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.

TI01171001/TI02171001 Building Trades I & II (3 credits) Grades: 11-12

This program is competency based and teaches skills and theory related to the building trades industry. Areas of study include carpentry, blueprint reading, electricity, etc. The second year will provide advanced instruction on the construction of a house or building which may include rough framing, grading and measuring lumber, safety, scaffolding work and reading blueprints. The completion of Building Trades I & II will provide opportunities for employment in residential or commercial construction.

Required: Tools, clothing and boots are the responsibility of the student.

**Advanced wage scale placement is available in the Construction Apprenticeship Program.

** Students must be able to read and comprehend at the 10th grade level.

OC01096843/ OC02096843 Business Technology I & II (3 Credits) Grades: 10 – 12

Students gain software knowledge in this one-year class. Software used is Office 2003. In addition, students receive instruction in desktop publishing, 10-key calculator, business math, basic office procedures, Internet projects, basic record keeping, filing and job seeking skills. FBLA membership is available. Students may return for a second year with instructor recommendation and be involved in project-based instruction utilizing and improving first-year skills. Internships are available fourth quarter.

**Students must be able to read and comprehend at a 10th grade level.

**Six hours of community college credit is available.

COURSE DESCRIPTIONS

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

TI01171300/TI02171300 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.

TI01170609 Construction Labor

(3 credits) Grade: 12

This pre-apprenticeship program includes units of construction, framing, leveling, blueprint reading, building plans, specifications and codes, footings and foundations, sheetrock hanging and leadership development. Some commercial construction will be introduced including the use of metal studs and the differences in codes and building techniques. Instruction in safety around hand and power tools is provided during training. A major project each year may include the construction of a family dwelling site.

**Students must be able to read and comprehend at a 10th grade level.

**Advanced wage scale placement is available in the Construction Laborer Apprenticeship Program

TI01171002/TI02171002 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.

TI01173101/ TI02173101 Computer Maintenance Technology I & II

(3 credits) Grades: 11 – 12

Emphasis will be given to safety practices, basic diagnostic, troubleshooting, preventative maintenance, microcomputer system configuration, upgrading and customer service. Students will perform hands-on activities with/on microcomputers, printers, monitors, exposure to operating systems new/legacy, basic local area networks (LANs), and peripheral devices. Students will have an adequate foundation to be successful on one or both of the national CompTIA A+ certification tests (Core/Software). Students will study Cisco networking (semesters 1 & 2), learn basic networking skills (LANs, WANs, MANs, SAMs and VPNs), router configurations, cable media, binary and hexadecimal numbering, protocols, topologies, OSI Model and TCP/IP Model. Students will learn technical writing skills and documentation. During the second year students will continue working with networking to complete national CompTIA Net+ certification. Due to the rigorous pace and content, it is recommended students have a strong interest and aptitude in the computer industry, have good self study habits and be able to work independently.

**Students must be able to read and comprehend at a 10th grade reading level.

**Seventeen hours of articulated community college credit is available.

Prerequisite: Keyboarding or the equivalent. Strong aptitude in computer applications, communications and comprehension.

TI01173101/TI02173101 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.

COURSE DESCRIPTIONS

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

TI01170100/TI02170100 Heating, Ventilation, Air Conditioning and Refrigeration I & II (3 credits) Grades: 11-12

This program provides competency based instruction and teachers skills and theory relating to air conditioning, refrigeration and heating. Topics include occupational safety, hand and special tools, tubing applications, soldering, welding and brazing, basic mechanical refrigeration, EPA regulations, refrigerants, recovery, recycling and reclamation, evacuating, pressurizing, leak testing and charging. Fundamentals of electricity, electrical power, circuits, symbols and diagrams, transformers and relays, thermostats, electric motors, capacitors, troubleshooting ACR system electrical circuits, and ACR wiring diagrams will also be covered. Operation and service of electrical and mechanical components will be applied to commercial and domestic systems. The first part of the two-part program, students will develop entry-level skills for employment in a variety of related fields. In the second year, the ability to diagnose mechanical and electrical failure will be developed, along with the extensive use of equipment and troubleshooting of domestic and commercial systems. Domestic refrigerator, freezer and window air conditioner service, including mechanical components and functions, electrical components and control devices, domestic ice maker and window air conditioner service will be covered. Psychometrics for residential and commercial HVACR, standard and high efficiency gas fired furnaces, electrical heating and cooling systems, heat pumps, customer relations and service operations will be presented. Upon completion the student will develop skills and competencies for entry level employment in related fields including commercial and residential service.

Recommended: Algebra, physics, drafting, physical science and basic electricity

** Fifteen hours of community college credit is available. Six hours of articulated credit is available through Linn State.

Advanced wage scale placement is also available in the Pipe Fitter Apprenticeship Program.

**Students must be able to read and comprehend at a 10th grade level.

HE01070917 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.

Dual Credit is offered with Maple Wood Community College.

HE01070906/ HE02070906 Health Science I & II (3 credits) Grades: 11 – 12

The first year teaches students basic health care, CPR, anatomy, common disorders and introduction to medical terminology. Students have the opportunity to take the Certified Nurses Aid state test. The students will also explore a variety of careers including radiology, physical therapy, veterinary, dietary, respiratory therapy, medical records, dentistry, etc. to enable students to make informed decisions about a career in health care. The second year will include medical terminology, school to work and enhancement of their knowledge of their chosen field. During the second semester, students will participate in a health career internship which involves four days on the job and one day in the classroom. The students will be responsible for documenting their clinical internship hours for their instructor. Students have the opportunity to take the certified Pharmacy Technician test.

Prerequisite: Students must have a Social Security number and pass the state criminal background check; must not be on the state employment disqualification list; required to obtain a TB test on their own and provide documentation of results; hepatitis vaccination is encouraged. Students must provide their own transportation; purchase uniform, name tag and wear appropriate clothing for clinical. Knowledge in basic science and positive people skills is encouraged.

**Students must be able to read and comprehend up to a 9th grade level.

COURSE DESCRIPTIONS

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

TI01170103 Mechanical Maintenance

(3 credits) Grade: 12

This class is for high school seniors only and will require higher standards of performance and attendance. The purpose of the program is to provide basic concepts, terminology and skills to students interested in various areas of mechanics. Students perform light service work, routine maintenance and preventative maintenance services. They will be prepared for advanced studies in the mechanic's field or related areas. This course is a one-year program and a commitment to the field of mechanics is expected.

****Students must be able to read and comprehend up to a 10th grade level.**

FC03096827/FC04096827 Culinary Arts I/II

(3 credits) Grades: 11-12

The focus of study will be food service terminology, equipment identification and use, knife skills, basic food preparation, sanitation and safety. The skills and knowledge will lead to preparation methods for stocks, soups and sauces. Students will receive hands-on experience through assuming the role of steward (pot/dishwasher) and cooks' helper in the pre-preparation of meals. An understanding of multiplication, division, addition and subtraction of fractions and decimals, percents and volume and weight measurement is essential. In the second year, emphasis will be on plate presentations, preparation and timing. Breakfast cookery, vegetables, starches and meats will be the focus of class work. Students will complete a nationally recognized sanitation exam. Successful completion of this course will prepare students for entry-level positions in full-service restaurants, hotels and continued education in a Culinary apprenticeship program at the college level.

Prerequisite: Able to lift 50 pounds from the floor to the table.

**** Students who complete this program can receive up to eight community college credit hours**

**** Recommendation: Minimum 11th grade reading level and able to work banquets after school hours. Second year students must have their own transportation available.**

****Eight hours of articulated community college credit is available.**

FC01096831/ FC02096831 Early Childhood Careers I & II

(3 credits) Grades: 11 – 12

This one or two year course is for students interested in pursuing certification in early childhood development. Through this program students may earn their Child Development Associate Certificate preparing them to work in preschool classrooms and then further their education at the Community College level. Course work will include: child development, child health, safety and nutrition, families and staff, approaches to learning and employability skills. Activities will include lesson planning and implementation for three to five-year old children in local pre-schools. Early Childhood Career students work with Great Beginnings Preschool and Hands-On Montessori Preschool.

**** 15 hours of dual credit or articulated credit is available through Penn Valley Community College.**

****Recommendation: Able to comprehend reading up to a 10th grade level**

TI01172306/TI02172306 Industrial Welding I/II

(3 Credits) Grades: 11-12

This program covers basic competencies and skills in flame cutting, fusion welding, oxygen-acetylene and shielded metal arc welding on carbon steel. Safety, blueprint reading and terminology are also included to help students gain a foundation for entry-level employment. The second year will focus on competencies and skills in fabrication techniques, advanced shielded metal arc welding, plasma arc cutting and gas tungsten arc welding on carbon steel, aluminum and stainless steel are covered. Further study of blueprint reading, welding symbols and basic metallurgy will prepare students for the AWS (American Welding Society) certification test which is administered annually.

****Six hours of community college credit is available; six credit hours are available through Missouri Western State College. Three hours of articulated credit is available through Linn State. Advanced wage scale placement is also available in the Ironworkers Apprenticeship.**

****Students must be able to read and comprehend at an 8th grade level.**

COURSE DESCRIPTIONS

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

TI01171200/TI02171200 Diesel Technology I/II

(3 Credits) Grades: 11-12

Instruction will include a basic concept of diesel engine theory, general shop safety practices, basic hand tools, common fasteners, shop equipment, precision measuring devices, identifying, assembling and reassembling component parts. Introduction to various fuel systems, cooling systems, lubricating systems, failure analysis, preventative maintenance and electrical systems are studied and related activities performed. The second year will include a study of troubleshooting and tune up procedures, power trains, air and hydraulic brakes, basic hydraulics, steering and suspension systems. An introduction to welding and automotive air conditioning basic theory helps round out the students' knowledge.

****Recommended prerequisites:** Math, Industrial Technology, Drafting, Electricity or Metal Shop.

****Students must be able to read and comprehend up to a 10th grade reading level.**

**** Students who complete this program can receive up to 12 hours of college credit at Linn State College.**

TI01172802/TI02172802 Law Enforcement/ Crime Scene Investigation

(3 credits) Grade: 11 - 12

This course provides an introduction to the criminal justice system with emphasis on crime scene investigation. Topics covered are: crime scene and accident investigation, professional ethics and leadership, US Constitutional Law and Missouri Criminal Code. The second year provides students with a more in-depth understanding of the criminal justice system and how it is applied to the everyday work force with an emphasis on crime scene investigation. Students will study US constitutional Law and its application to the criminal justice system as a social rule. The class is designed for those interested in pursuing careers in law, public safety, corrections, security and crime scene investigation.

Prerequisites: Students must have a good high school disciplinary record and an interest in science and a general understanding of algebra/geometry concepts.

****Students must be able to read and comprehend at a 10th grade level.**

SE01195800 Vocational Preparation

(3 credits) Grade: 10th grade or 15 years of age

This is a one-year program designed to assist special needs or disadvantaged students in making a career choice and to prepare students for mainstreaming into Career Center programs the following year.

****Credit in math and/or communication arts can be earned through this program.**

COURSE DESCRIPTIONS

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

Additional Learning Opportunities

MI0199915 Educational Internship Program

(1-2 credits) Grade: 12

This program is intended for seniors who are seriously considering pursuing 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. Students will participate in a book studies, online discussions, and article reviews in order to explore educational issues and topics. Interns will be required to attend a few before or after school meetings to prepare for teaching projects throughout this year long course.

Students who are participating in the A+ program may use their time in the classroom as part of their tutoring 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.

MI01994012 Learning Strategies

(1 credit) Grade: 9

Course content includes personal skills such as organization, study environment, listening, note-taking methods, test-taking strategy, time management, ways to read a textbook, improving memory, and goal setting. Time will also be spent helping students with class work. Additionally, an individualized reading program will be implemented for those who need to strengthen their reading skills.