

Program of Studies

All subjects

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All high schools

Subject: Art

Course Name and Credit:	AR1004 PAINTING 1	5 HRS.	10-12 J,K
	AR1005 PAINTING 2	5 HRS.	10-12 K
	AR1006 PAINTING 3	5 HRS.	10-12 K

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

**Course
Description:**

(Prerequisite: DESIGN IN ART and DRAWING 1 or approval of instructor. Non-sequential)
This course is for students interested in the fine arts commercial art, fashion design or interior design as a vocation or avocation. Basic color theory and basic two dimensional design will be covered. The course may include work in the styles of some of the important movements of art history or projects in the commercial or illustrative applications of painting methods.

Course Name and Credit:	AR1016 DRAWING 1	5 HRS.	9-12 J,K,W
	CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION		

**Course
Description:**

For students interested in fine arts, commercial art, or drafting for career or lifelong recreational purposes and teach students to draw realistically. This course covers projects aimed at developing the basic perception and coordination skills necessary for realistic drawing. It may also cover theories explaining the function of the human brain and its application to the specific task of drawing.

Course Name and Credit:	AR1017 DRAWING 2	5 HRS.	10-12 J,K,W
	AR1018 DRAWING 3	5 HRS.	10-12 K

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

**Course
Description:**

(Prerequisite: DESIGN IN ART and DRAWING 1 or approval of instructor)
This course is for students who wish to improve the skills and expand the concepts developed in DRAWING 1 for career or lifelong recreational purposes and to expand drawing skills into an expression form of communication. Beginning drawing skills are applied to more difficult subjects and/or more demanding styles of drawing. Perspective, figure drawing, and composition may be covered.

Course Name and Credit:	AR1021 CERAMICS 1	5 HRS.	9-12 J,K,W
	AR1022 CERAMICS 2	5 HRS.	10-12 J,K,W
	AR1023 CERAMICS 3	5 HRS.	10-12 J,K,W

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

**Course
Description:**

This course is for students wishing to learn how to make and glaze hand built and/or wheel-thrown clay forms and to develop creative, technical, and practical skills in the clay medium. It also teaches students to conceive and execute clay designs. They also learn the basic chemistry and math necessary to formulate and mix glazes. Students will be introduced to the important periods of ceramic history.

Course Name and Credit:	AR1031 SCULPTURE 1	5 HRS.	10-12 K
	AR1032 SCULPTURE 2	5 HRS.	10-12 K

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

**Course
Description:**

This course is for students with strong interest in the design and construction of sculpture and to develop student awareness of the concepts and techniques involved in the creation of 3-D forms. The course also teaches the design principles and elements, with particular emphasis on special concepts as they apply to these dimensional forms. Students will learn to sculpt both in relief and in the round using various media.

Subject: Art

Course Name and Credit: AR1087 DESIGN IN ART 5 HRS. 9-12 J,K,W
CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: This course is for students interested in art, design, computer graphics and related fields; all college bound students, and open to all students to develop visual and critical thinking skills and problem solving strategies. The course places great emphasis on students identifying and applying the elements and principles of design through a variety of media. Students will also become acquainted with the uses of design in various cultures and its relationship to occupations. This course is a prerequisite for several other art courses.

Course Name and Credit: AR1088 ART IN HISTORY 5 HRS. 10-12 J,K,W
CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: This course is for all college-bound students especially those interested in the arts, history, and humanities to give students a better understanding of the cultural heritage in the visual arts and to provide a foundation for future study in the arts and humanities. The visual arts of World Cultures are studied in relation to the social, political, economic, and religious climate in which they developed. A chronological approach traces major movements in painting, sculpture, and architecture from men's early creative attempts to the present.

Course Name and Credit: AR1089 ART IN APPLICATION 5 HRS. 10-12 J,W
CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: (Prerequisite: DESIGN IN ART, DRAWING 1, and CERAMICS 1 or approval of instructor.) This course is for students interested in fine arts, commercial art, fashion design, or interior design for career or lifelong recreational reasons to demonstrate an understanding of art through producing works of art. The course explores how visual thinking and problem solving strategies apply to a variety of careers through two dimensional and three dimensional studio experiences.

Course Name and Credit: AR1091 PHOTOGRAPHY 1 5 HRS. 10-12 K,W
AR1096 PHOTOGRAPHY 2 5 HRS. 10-12 K,W
CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: (Same as IT4090, IT4095)
AR1091 is for students who want basic instruction in photography and/or students who want to acquire additional skills and techniques to provide an introductory overview of photography; to provide in-depth experiences for students who want additional instruction. AR1096 is a use of simple cameras, film development and enlarging, picture taking techniques, student should have access to an adjustable camera. AR1096 is additional work with films-black and white and printing paper. Detailed assignments in print splicing panoramas, double exposure, and industrial application.

Course Name and Credit: AR1120 DIGITAL IMAGING 5 HRS. 9-12 W
CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: (Prerequisite: Design in Art)
This is a class in image manipulation on the computer. Still images and moving images are manipulated in a variety of ways to create artistic imagery and enhance content.

Subject: Art

Course Name and Credit:	AR1122 EXPLORING ART	5 HRS	9-12	J,K,W
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CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description:

Integration of students with special needs and students with an interest in peer mentoring. Students work at their own levels to explore art methods and materials that will include a sampling of two-dimensional and three-dimensional media, e.g., drawing, painting, design, ceramics, and photography. Lots of hands-on activities. Students become familiar with major cultures of the world that are becoming part of Iowa's heritage including Hispanic, Eastern European, African, and Asian. Students will reinforce basic math, measurement and technical reading skills. This class may be repeated.

Course Name and Credit:	AR1124P A.P. STUDIO ART	5 HRS.	12	K, W
	AR1125P A.P. STUDIO ART	5 HRS.	12	K, W
	AR1126P A.P. STUDIO ART	5 HRS.	12	K, W

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description:

(Prerequisite: 7 terms of studio art no more than two of which may be directed studies or by permission of instructor. An entrance portfolio review is required.)
This college-level class is designed to prepare students for the Advanced Placement Exam in Studio Art.

Course Name and Credit:	AR1130 DIGITAL DRAWING I	5 HRS.	11-12	K,W
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CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description:

Graphics Communication Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit)
Introduces designing graphics for desktop publishing using the Freehand program. Will learn basic drawing and tracing techniques as well as creating their own art work using the tools available in the program. Will learn how to draw basic shapes of various designs as well as using files and blended files for shading their artwork.

Subject: Business

Course Name and Credit: BE1222 PERSONAL FINANCE 5 HRS. 9-12 J,K

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description: Students learn important concepts regarding personal finances. Topics may include saving, investments, credit, housing, automobiles, insurance, and consumer rights. Students will also be introduced to personal financial management software such as Quicken.

Course Name and Credit: BE1274 KEYBOARDING 1 5 HRS. 9-12 J,K
BE1275 KEYBOARDING 2 5 HRS. 9-12 J

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description: Keyboarding 1 - Students learn to touch type and develop minimal skills.
Keyboarding 2 - Students develop speed and accuracy while working with term papers, personal business letters and simple tabulation.

Course Name and Credit: BE1311 SALES AND MARKETING 5 HRS. 10-12 J

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description: Students learn the seven steps of completing a sale, human relations skills, job application procedures, how to succeed on the job and the sales attitudes and techniques needed for success in sales.

Course Name and Credit: BE1331 BUSINESS LAW 1 5 HRS. 11-12 J,K

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description: Business Law 1 - Students learn the basics of the criminal justice system, torts, contracts, bailments and commercial papers.

Course Name and Credit: BE1371 ACCOUNTING 1 5 HRS. 10-12 J,K
BE1372 ACCOUNTING 2 5 HRS. 10-12 J,K
BE1373 ACCOUNTING 3 5 HRS. 10-12 J

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description: Accounting 1 - The students learn to analyze business transactions and make simple financial statements for a service-type, one-owner business.
Accounting 2 - (Prerequisite: BE1371 Accounting 1) Students learn to record, classify and summarize business activities for a one-owner merchandising business.
Accounting 3 - (Prerequisite: BE1372 Accounting 2) Students learn to handle special problems relating to the merchandising businesses that fall under the three classifications of one owner, partnerships and corporations.

Course Name and Credit: BE1460 MONEY MANAGEMENT 5 HRS. 9-12 J,K

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description: Students receive instruction in money management which includes employee pay and benefits, filing federal income tax returns, budgeting, checking accounts and banking. Students will learn to use personal financial management software (Quicken).

Subject: Business

Course Name and Credit:	BE1470 ENTREPRENEURSHIP - HOW TO RUN A BUSINESS	5 HRS.	9-12 J,K
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CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description:	Students will explore the process of owning a business. Topics include selecting a product or service to sell, determining who the customers will be, learning how to market the business, obtaining financing, managing employees and more.
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Course Name and Credit:	BE1511 BUSINESS INTERNSHIP-CLASS 1	5 HRS.	12 J
	BE1512 BUSINESS INTERNSHIP-CLASS 2	5 HRS.	12 J
	BE1513 BUSINESS INTERNSHIP-CLASS 3	5 HRS.	12 J

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description:	Business Internship-Class 1 - (Must enroll in BE1521) (Prerequisite: Keyboarding ability and Employment Seminar or approval of instructor) Employment Seminar may be taken concurrently. The student learns computer application skills such as word processing, database, spreadsheet, desktop publishing and Internet as they relate to the business world. Fundamental office skills, human relations, business etiquette, office machines, insurance, personal finance, law and other topics are covered to expand business awareness and build a positive attitude. Each student becomes a member of the local state and national Business Professionals of America. Business Internship-Class 2 - (Must enroll in BE1522) (Prerequisite: BE1511 Business Internship-Class 1) Business Internship-Class 3 - (Must enroll in BE1523) (Prerequisite: BE1512 Business Internship-Class 2)
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Course Name and Credit:	BE1521 BUSINESS INTERNSHIP-WORK 1	5 HRS.	12 J
	BE1522 BUSINESS INTERNSHIP-WORK 2	5 HRS.	12 J
	BE1523 BUSINESS INTERNSHIP-WORK 3	5 HRS.	12 J

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description:	The student receives on the job training while working at a local business/office. During the school year the student works a minimum of 15 hours a week earning 5 credits per term. The student learns on the job, has the opportunity to apply what is learned in the related class and is paid by the employer.
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Course Name and Credit:	BE1621 MARKETING EDUCATION-CLASS 1	5 HRS.	12 J
	BE1622 MARKETING EDUCATION-CLASS 2	5 HRS.	12 J
	BE1623 MARKETING EDUCATION-CLASS 3	5 HRS.	12 J

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description:	Marketing Edu.-Class 1 -(Must enroll in BE1625) (Prerequisite: BE1311 Sales and Marketing or instructor approval. Sales and Marketing may be taken concurrently. This course includes orientation to marketing education and DECA, human relations, business ethics, Internet, marketing, merchandising, sales promotion, display, marketing math, oral and written communication and entrepreneurship. Marketing Edu.-Class 2 - (Must enroll in BE1626) (Prerequisite:BE1621 Marketing Education-Class 1) Marketing Edu.-Class 3 - (Must enroll in BE1627) (Prerequisite: BE1622 Marketing Education-Class 2)
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Subject: Business

Course Name and Credit:	BE1625	MARKETING EDUCATION-WORK 1	5 HRS.	12	J
	BE1626	MARKETING EDUCATION-WORK 2	5 HRS.	12	J
	BE1627	MARKETING EDUCATION-WORK 3	5 HRS.	12	J

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND
MARKETING

**Course
Description:**

The student receives on the job training while working at a local retail business. During the school year the student works a minimum of 15 hours a week earning 5 credits per term. The student learns on the job, has the opportunity to apply what is learned in the related class and is paid and evaluated by the employer.

Course Name and Credit:	BE1800	EMPLOYMENT SEMINAR	5 HRS	10-12	J,K,M,W
	BE1805	EMPLOYMENT SEMINAR	7.5 HRS	11-12	J,K,W

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND
MARKETING

**Course
Description:**

Students explore the basic skills for career selection, job seeking, successful employment, and career advancement.

Students completing a 45 hr. practicum through the Workplace Learning Connection will earn 5 hrs. credit.

Students completing a 90 hr. internship through the Workplace Learning Connection will earn 7.5 hrs. credit.

Subject: Computer Science

Course Name and Credit: CI0340 INTRODUCTION TO MULTIMEDIA 5 HRS. 10-12 J,K,M,W
CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description: Information Systems Management Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit)
Develops knowledge of multimedia concepts by studying multimedia software and the hardware components needed to develop and view multimedia productions. Assessment projects are used by students for demonstration of knowledge of multimedia elements (copyright, video, graphics, sound and animation), knowledge of tools (digital camera, video camera, scanner, cams), and knowledge of editing software (sound editing, video editing and graphics editing).

Course Name and Credit: CI3010 COMPUTER OVERVIEW 5 HRS. 9-12 J,K,W
CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description: (Prerequisite: Ability to touch type or instructor approval)
The students will produce, store, edit, retrieve, and print documents using word processing, database, spreadsheet, and desktop publishing applications with proper formatting and proof reading. They will also learn to use the Internet as a resource.

Course Name and Credit: CI3020 SPREADSHEET AND DATABASE 5 HRS. 9-12 J,W
CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description: (Prerequisite: Ability to touch type and Computer Overview)
The students will gain advanced skills using the applications to create reports, tables, lists, graphs and publications. They will use the Internet as a resource.

Course Name and Credit: CI3023 WEB PAGE DESIGN 5 HRS. 9-12 J,K,W
CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description: (Prerequisite: Computer Composition 2, Business Internet 1 or instructor's approval)
This course is designed to maintain a school's web site. Students will learn to create, edit, and inform others via a functioning web site.

Course Name and Credit: CI3025 PAGEMAKER I 5 HRS. 11-12 K,W
CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: Graphic Communication Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit)
Offers students a working knowledge of PageMaker and how to communicate more effectively through eye-catching page layouts combining graphics and type. Concepts covered include learning the toolbox and tool usage. Importing and editing text and graphics as they create various single and spot-color documents including flyers, newsletters and other printed material. Introduces master pages, use of styles, text and paragraph formatting and effective use of type and graphics. Will be able to import graphics and setup text styles, columns, grids, and automatic page numbering.

Course Name and Credit: CI3026 PHOTOSHOP I 5 HRS. 11-12 K,W
CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: Graphic Communication Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit)
Introduces student to electronic image editing software, Photoshop. Concepts covered include basic scanning techniques for grayscale and line art images and proper manipulation procedures required for various output sources. Will include input and output resolutions, file size, multiple file saving formats, simple image enhancements and creating duo-tones.

Subject: Computer Science

Course Name and Credit:	CI3031 BUSINESS-INTERNET 1	5 HRS.	11-12	J
	CI3032 BUSINESS-INTERNET 2	5 HRS.	11-12	J

CAREER CLUSTER: BUSINESS, INFORMATION MANAGEMENT AND MARKETING

Course Description:	<p>Business-Internet 1 (Prerequisite: CI3010 Computer Overview/complete competency tests or instructor approval) The course is designed to introduce students to the Internet. They will gain knowledge of the history of the Internet as well as hands on experience in navigating the Internet and creating documents for the Internet. Topics will include how the Internet functions, browsers, websites, search engines, FTP, downloading and uploading. Emphasis will be placed on utilization of the Internet in the business world.</p> <p>Business-Internet 2 (Prerequisite: CI3031 Business Internet 1) This course is designed to extend students' knowledge and use of the Internet. Students will use the Internet to create documents beyond an introductory level.</p>
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Course Name and Credit:	CI3151 COMPUTER GRAPHICS 1	5 HRS.	9-12	K
	CI3152 COMPUTER GRAPHICS 2	5 HRS.	9-12	K

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description:	<p>Computer Graphics 1 This course is designed to explore the relationship between design, artistic expression and the latest technology. Students will enhance the traditional methods of designing and visual problem solving with digital imaging and other electronic media production processes. Images will be manipulated in a variety of ways to create artistic imagery.</p> <p>Computer Graphics 2 In Computer Graphics 2 students will explore digital video editing, multimedia technology, and will be introduced to desktop publishing techniques.</p>
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Course Name and Credit:	CI3231 COMPUTATIONAL SCIENCE	5 HRS.	11-12	K,W
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CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description:	<p>This course is an introduction to computer programming using C++ and Stagecraft Creator. No previous programming experience is required but is recommended. A strong math background is also recommended.</p>
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Course Name and Credit:	CI3240 COMPUTER PROGRAMMING ACADEMY 1	5 HRS.	10-12	J,K,M,W
	CI3241 COMPUTER PROGRAMMING ACADEMY 2	5 HRS.	10-12	J,K,M,W
	CI3242 COMPUTER PROGRAMMING ACADEMY 3	5 HRS.	10-12	J,K,M,W

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description:	<p>Computer Programming Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit) An introduction to programming logic with language. Presents the techniques to analyze a problem for solution by computer, and designing and documenting the solution. Includes step-by-step documentation of solution algorithm. Techniques presented include flowcharts, decision tables, Warnier Charts and structured design. A high-level programming language is used to implement design algorithms.</p> <p>Provides an introduction to object-oriented programming and design concepts using the Java programming language. Intended for students without previous object-oriented programming experience.</p> <p>The course covers methods, classes and objects with emphasis on modularity and code reusability. Students code, test, and debug simple applets and applications illustrating understanding of conditionals, iteration, array handling, event processing, string handling, and input-output.</p>
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Subject: Computer Science

Course Name and Credit:	CI3243 COMPUTER PROGRAMMING ACADEMY 4	5 HRS.	10-12	J,K,M,W
	CI3244 COMPUTER PROGRAMMING ACADEMY 5	5 HRS.	10-12	J,K,M,W
	CI3245 COMPUTER PROGRAMMING ACADEMY 6	5 HRS.	10-12	J,K,M,W

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description:

Computer Programming Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit)
Provides an introduction to basic relational database design and development concepts. Students learn the fundamentals of logical data modeling to transform business data requirements into an operational database. Requires the completion of a model database designed to meet business specifications. Topics included to facilitate the success of the project design are data relationships, normalization and constraints. Introduces beginning data communications concepts.

Presents the concepts of voice and data communications, transmission media, signal encoding, link control, error handling, multiplexing, networks, topologies, protocols, OSC model and ISDN.

Course Name and Credit:	CI3250 DESKTOP PUBLISHING	5 HRS.	10-12	J,K,M,W
	CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING			

Course Description:

Information Systems Management Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit)
Allows the student to create professional-quality documents such as a one-page bulletin or a short newsletter using both Office Publisher and PageMaker desktop software. The student will also integrate text, graphic and image files previously created with a variety of application software.

Course Name and Credit:	CI3261P A.P. COMPUTER SCIENCE 1	5 HRS.	12	J,K,W
	CI3262P A.P. COMPUTER SCIENCE 2	5 HRS.	12	J,K,W
	CI3263P A.P. COMPUTER SCIENCE 3	5 HRS.	12	J,K,W

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description:

(Prerequisite: Consent of instructor)
This college-level class is designed to prepare students for the Advanced Placement Exam in Computer Science.
This course is for college bound students, especially those planning to major in computer science, engineering, or the physical sciences to prepare students for AP testing and possible creditation in college level computer science courses. PASCAL programming language will be taught. The course consists of a full academic year of course work in the following areas of study: top down design of computer software; readability, modularity, portability, and robustness of computer programs; as well as issues directly related to fundamental control structures; standard, scalar and subrange data types; intermediate control structures; arrays; repeat and nested structures; recursion records; sets; pointers; dynamically allocated data structures and hierarchal records and files. There will also be some emphasis on team problem-solving and software engineering. All of these topics will be studied using PASCAL as the programming language of choice.

Course Name and Credit:	CI5001 LOCAL AREA NETWORK 1	5 HRS.	11-12	J,K,W
	CI5002 LOCAL AREA NETWORK 2	5 HRS.	11-12	J,K,W
	CI5003 LOCAL AREA NETWORK 3	5 HRS.	11-12	J,K,W

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING

Course Description:

(Dual credit - Provides both H.S. and Kirkwood Community College credit)
This series of courses includes the study of Local Area Network Design and Protocols: Cisco 1 and Router Basics: Cisco 2.

Subject: Computer Science

Course Name	CI5004 LOCAL AREA NETWORK 4	5 HRS.	11-12	J,K,W
and Credit:	CI5005 LOCAL AREA NETWORK 5	5 HRS.	11-12	J,K,W
	CI5006 LOCAL AREA NETWORK 6	5 HRS.	11-12	J,K,W

CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND
MARKETING

**Course
Description:**

(Dual credit - Provides both H.S. and Kirkwood Community College credit)
This series of courses includes the study of NetWare Routing: Cisco 3 and Wide Area
Telecommunications & Networking: Cisco 4.

Subject: Driver Education

Course Name and Credit: DR1900 DRIVER EDUCATION

5 HRS.

10-12 M

Course Description:

Students must be 15 years of age on or before the date the course begins. It is preferred that the student attain the age of 16 years before or during the term in which the course is taken. Under the Iowa Driver Education Law, the Iowa Department of Public Safety will not issue a driver's license to anyone under the age of 18 years unless the person has SUCCESSFULLY completed an approved course in Driver Education. If the course has been successfully completed the minimum age is 16 years.

Subject: Family & Consumer Science

Course Name and Credit: LS3501 EXPLORING FOODS & NUTRITION 1 5 HRS. 10-12 K
CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description: The purpose of this course is to help students learn basic cooking techniques, application of the food pyramid, sanitation, safety, and presentation of food. Students will complete a personal dietary assessment. Students work to improve the SCANS skills of communication, organization and planning, and quality work. Examples of foods prepared include salsa, pasta, breads, casseroles, salads and bakery goods.

Course Name and Credit: LS3550 PARENTING THE PRESCHOOL CHILD 5 HRS. 10-12 J,K
CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description: The purpose of this course is to give students information about choosing to become a parent, pregnancy, birth, and the growth and development of children up to age 3. Opportunities are provided to explore vocations related to child care and to emphasize the importance of choosing the best age to parent. Emphasis is placed on parenting as life's most important career, establishing a stable marriage relationship, choosing (or not) to become a parent, importance of care during pregnancy, childbirth, care of the newborn, child development, rewards and responsibilities of parenting, and techniques which nurture and enrich a child's life.

Course Name and Credit: LS3560 PARENTING THE SCHOOL-AGE CHILD 5 HRS. 10-12 J,K
CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description: The purpose of this course is to promote future family interactions that are enjoyable, supportive, encouraging, and rewarding for everyone involved. Emphasis is placed on social, emotional, intellectual and physical development of children ages 4 through 18. Information is presented to help tomorrow's families meet the unique challenges they face.

Special Note: Students who successfully complete 2 parenting classes may be eligible for college credit.

Course Name and Credit: LS3570 CONTEMPORARY ADULT LIVING 5 HRS. 10-12 J,K
CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description: The purpose of this course is to help students understand and accept the responsibilities of becoming an adult in today's society. Emphasis is placed on using money wisely, time management, healthy and abusive relationships, stereotypes, sexuality and decisions related to sexuality, and preparation for being an effective part of a continuously changing world.

Course Name and Credit: LS3590 FAMILY AND CONSUMER SCIENCE 1 5 HRS. 9-12 J,K
LS3595 FAMILY AND CONSUMER SCIENCE 2 5 HRS.
CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description: The purpose of the course is to explore employability skills and careers related to Family and Consumer Sciences. Emphasis is placed on goals and values, using personal skills and interests to help determine suitable careers, job seeking skills, dressing for success, nutrition and parenting. Students will have the opportunity to examine their thinking abilities and how to use them, their personal learning styles and strongest intelligence types, as well as learning skills that work best for them.

Course Name and Credit: LS3720 INTERIOR DESIGN 5 HRS. 10-12 J,K
CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: The purpose of this course is to help students understand the basics of design and how to apply them to create beauty in their own homes. Emphasis is placed on design elements, design principles, reading floor plans, buying and arranging furniture, window treatments, accessories, and decorating on a budget.

Subject: Family & Consumer Science

Course Name and Credit: LS3820 INDEPENDENT LIVING 5 HRS. 10-12 K
CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description:

The purpose of this course is to provide basic consumer information students need to live successfully on their own. Emphasis is placed on providing students with opportunities to apply problem solving techniques in the following areas: apartment living, using amortization schedules for financing large purchases, managing finances, purchase and care of a car, basic meal planning and preparation, child care, selecting insurance, marketing personal job skills and succeeding at work.

Subject: General Studies

Course Name and Credit:	GS0302 INTRODUCTION TO MICROCOMPUTERS AND DATA PROCESSING CONCEPTS	5 HRS.	10-12	J,K,M,W
	CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING			
Course Description:	Health Science Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit) Familiarizes the student with business, personal and industrial uses of microcomputers. Broad-based overview of microcomputer topics is presented; concepts of storage media, file organization and data representation are presented also. The fundamentals of computer problem solving and programming are discussed.			

Course Name and Credit:	GS1420 MAKING A DIFFERENCE	5 HRS.	10-12	J,K,M,W
	CAREER CLUSTER: EDUCATION AND HUMAN SERVICES			
Course Description:	Education and Human Services Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit) Examines the values, skills and issues of working with people with disabilities in educational, vocational and residential settings. Students visit agencies and complete volunteer experiences at community sites. This course meets part of the requirement for the Iowa Paraeducator Generalist Certification.			

Course Name and Credit:	GS1501 PROFESSIONALS IN HEALTH	5 HRS.	10-12	J,K,M,W
	CAREER CLUSTER: HEALTH SCIENCES			
Course Description:	Health Science Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit) Presents skills and characteristics expected for professional preparation and employability. Provides an overview of the health industry as it relates to health and safety regulations.			

Course Name and Credit:	GS1513 MEDICAL TERMINOLOGY	10 HRS.	10-12	J,K,M,W
	CAREER CLUSTER: HEALTH SCIENCES			
Course Description:	Health Science Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit) A comprehensive study of medical terminology as the language of medicine. Analyzes words by dividing them into component parts. Relates the medical terms to the structure and functional pathology of diseases and current medical procedures. Emphasizes word usage, abbreviations, pronunciation and spelling.			

Course Name and Credit:	GS1514 ADMINISTRATIVE MEDICAL OFFICE PROCEDURES	5 HRS.	10-12	J,K,M,W
	CAREER CLUSTER: HEALTH SCIENCES			
Course Description:	Health Science Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit) Presents the principles of administration for the medical office including facility and supply management, telephone and appointment techniques, managing records and medical bookkeeping.			

Course Name and Credit:	GS1535 PHARMACY TECHNICIAN	7.5 HRS.	9-12	J,K,M,W
	CAREER CLUSTER: HEALTH SCIENCES			
Course Description:	Health Science Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit) Provides the knowledge and skills necessary for employment as a pharmacy technician in a retail or hospital pharmacy under the direct supervision of a pharmacist. Structured to prepare learners for the National Pharmacy Technician Certification Exam. Includes basic understanding of medications, prescriptions and terminology, record keeping, ethics and jurisprudence, as well as the role of the pharmacy technician. The program consists of 75 hours of classroom work comprised of lecture, tests, and hands-on practice. Students also complete preceptorships of eight hours in a retail pharmacy and eight hours in a hospital pharmacy.			

Subject: General Studies

Course Name and Credit:	GS2595 HUMAN SERVICES CAREERS ORIENTATION	5 HRS.	10-12	J,K,M,W
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CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description:

Education and Human Services Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit)
Introduces the value base of human services and evaluates problems that can be encountered in working with people when these values conflict with client needs. Introduces the framework of the human services approach, specifically formation of individual values, systems analysis, problem solving and conflict resolution. Concepts of systems analysis are accompanied by applications of these concepts to problems.

Course Name and Credit:	GS2923 INTRODUCTION TO EARLY CHILDHOOD EDUCATION	5 HRS.	10-12	J,K,M,W
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CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description:

Education and Human Services Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit)
Provides an overview of the philosophy and history of early childhood education and the impact on curricula. Defines child care settings and terminology in the field (e.g., day care, preschool, family day care) and goals associated with each. Examines the role of the child care professional, related career fields, career ladders and professional ethics. Provides an introduction to observation techniques.

Course Name and Credit:	GS7601 HEALTH OCCUPATIONS 1	10 HRS.	10-12	J,K,M,W
	GS7602 HEALTH OCCUPATIONS 2	10 HRS.	10-12	J,K,M,W
	GS7603 HEALTH OCCUPATIONS 3	10 HRS.	10-12	J,K,M,W

CAREER CLUSTER: HEALTH SCIENCES

Course Description:

Health Science Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit)
A full year course designed to introduce students to health careers and related areas. Students should contact their counselor for further information.

Course Name and Credit:	GS7604 EMERGENCY MEDICAL TECHNICIAN	10 HRS.	10-12	J,K,M,W
	GS7605 EMERGENCY MEDICAL TECHNICIAN	10 HRS.	10-12	J,K,M,W
	GS7606 EMERGENCY MEDICAL TECHNICIAN	10 HRS.	10-12	J,K,M,W

CAREER CLUSTER: HEALTH SCIENCES

Course Description:

Health Science Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit)
Develops knowledge and skills in providing basic life support management of medical and traumatic emergencies. Focuses on patient assessment and history taking and management of cardiopulmonary, medical, behavioral and environmental emergencies, and childbirth and pediatrics. Provides opportunities for students to practice patient care under supervision in pre-hospital and emergency department settings.

Course Name and Credit:	GS8529 INTERNSHIP I	5 HRS.	10-12	J,K,W
	GS8530 INTERNSHIP II	2.5 HRS.	10-12	J,K,W

Course Description:

The Area 10 Student Internship Program provides sophomores, juniors and seniors with a planned and supervised career development experience related to their learning and career goals. Interns learn new skills, apply classroom knowledge in a real-world setting, developing successful work place behaviors, and gain insight that will help them make a more informed career choice.

Course Name and Credit:	GS8535 TUTOR: ELEMENTARY	2.5 HRS.	10-12	J
	GS8536 TUTOR: ELEMENTARY	5 HRS.	10-12	J

CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description:

The purpose of this course is to help students interested in providing community service by working with elementary age school children. Emphasis is placed on service to elementary schools by tutoring students and otherwise assisting the elementary school teachers. Also, to give experiences in career research.

Subject: Language Arts

Course Name and Credit:	LA1400	READING SKILLS 1	5 HRS.	9-12	J,K,W
	LA1401	READING SKILLS 2	5 HRS.	9-12	J,K,W
	LA1402	READING SKILLS 3	5 HRS.	9-12	J,K,W
	LA1403	READING SKILLS 1	2.5 HRS.	9-12	J,K,W
	LA1404	READING SKILLS 2	2.5 HRS.	9-12	J,K,W
	LA1405	READING SKILLS 3	2.5 HRS.	9-12	J,K,W

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: (Prerequisite: teacher recommendation)
Students will participate in Reading Skills based upon identified reading deficiencies. Individual diagnosis and remediation of decoding skills, vocabulary, and comprehension skills will be provided.

Course Name and Credit:	LA2010	LANGUAGE ARTS 9-1	5 HRS.	9	J,K,M,W
	LA2020	LANGUAGE ARTS 9-2	5 HRS.	9	J,K,M,W
	LA2030	LANGUAGE ARTS 9-3	5 HRS.	9	J,K,M,W

Course Description: (Fulfills Language Arts 9 Requirement)
This course is designed for ninth graders to improve their reading, writing, listening, speaking, and viewing skills. Students will improve their communication skills and appreciation of literature through a focus on self-discovery through literature, composition, and speaking activities.

Course Name and Credit:	LA2040	GRADE 10 LAB	5 HRS.	9-10	K,M,W
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Course Description: (Fulfills Language Arts 9/10 Requirement)
This course provides students who have failed Language Arts 9 or 10 with the opportunity to fulfill the ninth or tenth grade Language Arts requirement.

Course Name and Credit:	LA2041	LANGUAGE ARTS 10-1	5 HRS.	10	J,K,M,W
	LA2051	LANGUAGE ARTS 10-2	5 HRS.	10	J,K,M,W
	LA2061	LANGUAGE ARTS 10-3	5 HRS.	10	J,K,M,W

Course Description: (Fulfills Language Arts 10 Requirement)
This course is designed for tenth graders to focus on the relationship between themselves and society through reading, writing, speaking, listening, and viewing, as well as to expand their knowledge and appreciation of literature.

Course Name and Credit:	LA2165	READING WORKSHOP	5 HRS.	9-12	K,M,W
	LA2166	READING WORKSHOP	2.5 HRS.	9-12	K,M,W

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: (Elective)
This course is for students who wish to pursue an independent reading program designed by the student and instructor and to meet the goals of students enrolled through scheduled oral conferences and written evaluations. The books read are from suggested lists with student input and instructor supervision.

Course Name and Credit:	LA2172	LITERARY MAGAZINE PRODUCTION	2.5 HRS.	9-12	K,W
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CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: (Elective)
This course is for students interested in literary magazine production. Students will acquire practical knowledge and experience in literary magazine production.

Subject: Language Arts

Course Name and Credit:	LA2297 ACTING	5 HRS.	9-12	J,K,W
	CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION			
Course Description:	(Elective) This course helps students develop various performance skills, including pantomime, improvisation, character development, and script interpretation.			

Course Name and Credit:	LA2299 SPEECH	5 HRS.	9-12	J,K,W
	CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION			
Course Description:	(Elective) This course helps students develop public speaking skills in a variety of situations with emphasis on composition, research, and persuasion.			

Course Name and Credit:	LA2301 BEGINNING DEBATE	5 HRS.	9-12	J,K,W
	CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION			
Course Description:	(Elective) This course is for students interested in acquiring and applying the basic concepts and theories of debate and discussion.			

Course Name and Credit:	LA2326 JOURNALISM-NEWSPAPER	2.5 HRS.	9-12	J,K,W
	LA2327 JOURNALISM-NEWSPAPER	5 HRS.	9-12	J,K,W
	CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION			
Course Description:	(Elective) Prerequisite: Journalism In this course, students who have shown interest and ability in journalistic writing will refine their journalistic skills and produce the school newspaper.			

Course Name and Credit:	LA2356 THEATRE ARTS	5 HRS.	9-12	J,K
	CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION			
Course Description:	(Elective) This course for students interested in theatre will provide an overall view of theatre, including historical background, performance experiences, production techniques, and investigation of career opportunities.			

Course Name and Credit:	LA2360 STAGE DESIGN	5 HRS.	9-12	K,M,W
	CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION			
Course Description:	(Elective - Recommended for students interested in the technical aspects of theatre) This course is designed for the student interested in the design of stage scenery and the lighting and sound designs that enhance the design. The course will be taught using both Computer Aided Design programs and basic drafting techniques. Final designs will include scale models and watercolor renderings.			

Course Name and Credit:	LA2365 STAGECRAFT	5 HRS.	9-12	J,K,W
	CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION			
Course Description:	(Elective) This course is for students interested in studying the technical aspects of theatre. Classtime will be divided between classroom studies and backstage work in the theatre.			

Subject: Language Arts

Course Name and Credit:	LA2376 JOURNALISM-YEARBOOK	2.5 HRS.	9-12	J,K,W
	LA2377 JOURNALISM-YEARBOOK	5 HRS.	9-12	J,K,W

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: (Elective) Prerequisite: Journalism
This course is for students who have shown the interest and ability to work on the high school yearbook and to allow students to plan and supervise the production of the yearbook for the current year. Students will receive instruction in writing, photography, and graphic design skills necessary for yearbook production.

Course Name and Credit:	LA2421 PERSPECTIVES IN LITERATURE & COMPOSITION 1	5 HRS.	11-12	J,K,M,W
	LA2422 PERSPECTIVES IN LITERATURE & COMPOSITION 2	5 HRS.	11-12	J,K,M,W
	LA2423 PERSPECTIVES IN LITERATURE & COMPOSITION 3	5 HRS.	11-12	J,K,M,W

Course Description: (Fulfills Language Arts Requirement Grade 11 or Grade 12)
This class will study recurring themes in texts from the United States and around the world. Literary works will for the most part, be selected from texts published since 1950 and will include fiction and non-fiction, print and non-print sources. Students will demonstrate their knowledge through creative and expository writing, formal and informal speaking, and production of media texts.

Course Name and Credit:	LA2431 WORLD HUMANITIES & COMPOSITION 1	5 HRS.	11-12	J,K,W
	LA2432 WORLD HUMANITIES & COMPOSITION 2	5 HRS.	11-12	J,K,W
	LA2433 WORLD HUMANITIES & COMPOSITION 3	5 HRS.	11-12	J,K,W

Course Description: (Fulfills Language Arts Requirement Grade 11 or Grade 12)
Students will read, analyze, and interpret art, music, architecture, and literature from a wide variety of cultures and historical periods. Students will respond to these works in written compositions and oral presentations. Students will use various media resources for investigations, study, and communication of ideas.

Course Name and Credit:	LA2441 US HUMANITIES AND COMPOSITION 1	5 HRS.	11-12	J,K,M,W
	LA2442 US HUMANITIES AND COMPOSITION 2	5 HRS.	11-12	J,K,M,W
	LA2443 US HUMANITIES AND COMPOSITION 3	5 HRS.	11-12	J,K,M,W

Course Description: (Fulfills Language Arts grade 11 or 12 requirement)
Students will explore United States literature, music, visual arts, and dance. They will research and respond to these components of the humanities in the United States through a variety of creative and expository written and oral assignments. Resources will encompass the many cultural influences found in the United States.

Subject: Mathematics

Course Name and Credit:	MA5001 GENERAL MATHEMATICS 1	5 HRS.	9	J,K,M,W
	MA5002 GENERAL MATHEMATICS 2	5 HRS.	9	J,K,M,W
	MA5003 GENERAL MATHEMATICS 3	5 HRS.	9	J,K,M,W

Course Description: (Prerequisite: 8th grade math teacher recommendation)
This course reinforces the basic mathematics skills and concepts taught in middle school and introduces some basic pre-algebra concepts and skills.

Course Name and Credit:	MA5004 ALGEBRA PREP 1	5 HRS.	9-12	J,K,M,W
	MA5005 ALGEBRA PREP 2	5 HRS.	9-12	J,K,M,W
	MA5006 ALGEBRA PREP 3	5 HRS.	9-12	J,K,M,W

Course Description: (Prerequisite: 8th grade math teacher recommendation)
The Algebra Prep course reinforces number concepts and computation skills with rational numbers. The course introduces and connects basic algebra and geometry concepts and skills.

Course Name and Credit:	MA5010 BASIC MATH	5 HRS.	11-12	J,K,M,W
	MA5020 APPLIED MATH	5 HRS.	11-12	J,K,M,W
	MA5030 CONSUMER MATH	5 HRS.	11-12	J,K,M,W

Course Description: This three course sequence reviews the fundamentals of numeration and computation and applies these concepts and skills to everyday living.

Course Name and Credit:	MA5011 MATH LAB 1	5 HRS.	9-12	M,W
	MA5012 MATH LAB 2	5 HRS.	10-12	M,W
	MA5015 MATH LAB 3	5 HRS.	10-12	M,W

Course Description: Math Lab 1 - (Prerequisite: Completion of the first two-terms of 4-term Algebra 1)
Math Lab 1 provides one additional term to develop the basic concepts and skills of 1st year Algebra.
Math Lab 2 - (Prerequisite: Completion of the first two terms of 4-term Geometry)
Math Lab 2 provides one additional term to develop the basic concepts, relationships, and skills of Geometry.
Math Lab 3 - (Prerequisite: Completion of the first two terms of 4-term Algebra 2)
Math Lab 3 provides one additional term to develop the basic concepts, relationships, and skills of 2nd year Algebra.

Course Name and Credit:	MA5060 MATH SKILLS 1	5 HRS.	9-12	J,K,W
	MA5061 MATH SKILLS 2	5 HRS.	9-12	J,K,W
	MA5062 MATH SKILLS 3	5 HRS.	9-12	J,K,W

Course Description: (Prerequisite: teacher recommendation)
Students will participate in Math Skills based upon identified mathematical deficiencies. Individual diagnosis and remediation of arithmetic, algebraic, and geometric knowledge and skills will be provided.

Course Name and Credit:	MA5063 MATH SKILLS 1	2.5 HRS.	9-12	J,K,W
	MA5064 MATH SKILLS 2	2.5 HRS.	9-12	J,K,W
	MA5065 MATH SKILLS 3	2.5 HRS.	9-12	J,K,W

Course Description: (Prerequisite: teacher recommendation)
Students will participate in Math Skills based upon identified mathematical deficiencies. Individual diagnosis and remediation of arithmetic, algebraic, and geometric knowledge and skills will be provided.

Course Name and Credit:	MA5110 FIRST YEAR ALGEBRA 1	5 HRS.	9-12	J,K,M,W
	MA5120 FIRST YEAR ALGEBRA 2	5 HRS.	9-12	J,K,M,W
	MA5130 FIRST YEAR ALGEBRA 3	5 HRS.	9-12	J,K,M,W

Course Description: The concepts and skills built in first year algebra lay the firm foundation for future math courses and careers. First year algebra develops linear and quadratic functions numerically, symbolically, and graphically. Fundamental algebra skills as well as problem-solving capabilities are developed, applied, and emphasized throughout in real-world contexts. The course integrates technology and connects algebra to geometry, data analysis, and probability.

Subject: Mathematics

Course Name and Credit:	MA5111	ADVANCED FIRST YEAR ALGEBRA 1	5 HRS.	9	K,W
	MA5112	ADVANCED FIRST YEAR ALGEBRA 2	5 HRS.	9	K,W
	MA5113	ADVANCED FIRST YEAR ALGEBRA 3	5 HRS.	9	K,W

Course Description:

(Prerequisite: 8th grade math teacher recommendation)

The concepts and skills built in first year algebra lay the firm foundation for future math courses and careers. First year algebra develops linear and quadratic functions numerically, symbolically, and graphically. Fundamental algebra skills as well as problem-solving capabilities are developed, applied, and emphasized throughout in real-world contexts. The course integrates technology and connects algebra to geometry, data analysis, and probability.

In advanced first year algebra the range of topics is extended slightly, and the topics are presented with a greater depth, rigor, and difficulty.

Course Name and Credit:	MA5131	ADVANCED GEOMETRY 1	5 HRS.	9-10	J,K,W
	MA5132	ADVANCED GEOMETRY 2	5 HRS.	9-10	J,K,W
	MA5133	ADVANCED GEOMETRY 3	5 HRS.	9-10	J,K,W

Course Description:

(Prerequisite: Teacher recommendation)

Geometry develops inductive and deductive reasoning skills along with analytical and visual thinking. It furthers the understanding of Euclidean geometric relationships and applies these relationships to real-world situations. Problem-solving, constructions and investigations are used to develop definitions, properties and relationships between and among lines and angles, polygons, circles, transformations, measurement, basic trigonometry and similarity. Coordinate geometry, algebra skills, informal and formal proofs are emphasized throughout. Depth and rigor of content, along with a faster pace, distinguish this course from Geometry 1,2,3.

Course Name and Credit:	MA5150	INTEGRATED MATHEMATICS 1	5 HRS.	10-12	M
	MA5151	INTEGRATED MATHEMATICS 2	5 HRS.	10-12	M
	MA5152	INTEGRATED MATHEMATICS 3 (Pilot Course)	5 HRS.	10-12	M

Course Description:

(Prerequisite: Successful completion of 1st year Algebra)

The focus of this course is preparation of students for post-secondary technical programs. Integrated Mathematics continues the development of 1st year algebraic skills while introducing selected concepts and topics from geometry and 2nd year algebra. These topics include equations, elementary functions, similarity and congruence, and coordinate geometry. In addition, topics in data collection and analysis and basic trigonometry will be covered. The course content will be developed primarily in a context of applications-based problem-solving.

Course Name and Credit:	MA5200	GEOMETRY 1	5 HRS.	10-12	J,K,M,W
	MA5210	GEOMETRY 2	5 HRS.	10-12	J,K,M,W
	MA5220	GEOMETRY 3	5 HRS.	10-12	J,K,M,W

Course Description:

(Prerequisite: Successful completion of 3 terms of 1st yr. Algebra)

Geometry develops inductive reasoning skills along with analytical and visual thinking. It furthers the understanding of geometric relationships and applies these relationships to real-world situations. Problem-solving, constructions, and investigations are used to develop definitions, properties and relationships with lines and angles, polygons, circles, transformations, measurement, basic trigonometry and similarity. Coordinate geometry, algebra skills, informal proofs are emphasized throughout.

Course Name and Credit:	MA5234	ADVANCED 2ND YEAR ALGEBRA 1	5 HRS.	10	J,K,W
	MA5235	ADVANCED 2ND YEAR ALGEBRA 2	5 HRS.	10	J,K,W
	MA5236	ADVANCED 2ND YEAR ALGEBRA 3	5 HRS.	10	J,K,W

Course Description:

(Prerequisite: Teacher recommendation)

Advanced 2nd yr. Algebra continues to use real-world contexts to develop function relationships with particular emphasis on exponential, logarithmic, polynomial, and radical functions. Geometric and algebraic concepts are extended to topics in probability, statistics, and discrete mathematics including the study of sequences and series, conics, and complex numbers. Depth and rigor with the content, along with a faster pace, distinguish this course from 2nd yr. Algebra 1, 2, and 3.

Subject: Mathematics

Course Name and Credit:	MA5300 2ND YEAR ALGEBRA 1	5 HRS.	11-12	J,K,M,W
	MA5330 2ND YEAR ALGEBRA 2	5 HRS.	11-12	J,K,M,W
	MA5310 2ND YEAR ALGEBRA 3	5 HRS.	11-12	J,K,M,W

Course Description: (Prerequisite: Successful completion of 1st yr. Algebra sequence and geometry sequence)
Second year Algebra continues to use real-world contexts to develop function relationships with particular emphasis on exponential, logarithmic, polynomial, and radical functions. Geometric and algebraic concepts are extended to topics in probability, statistics, and discrete mathematics including the study of sequences and series, comics, and complex numbers.

Course Name and Credit:	MA5325P A.P. STATISTICS 1	5 HRS.	11-12	J,K,W
	MA5326P A.P. STATISTICS 2	5 HRS.	11-12	J,K,W
	MA5327P A.P. STATISTICS 3	5 HRS.	11-12	J,K,W

Course Description: (Prerequisite: Successful completion of 2nd yr. Algebra)
This college-level class is designed to prepare students for the Advanced Placement Exam in Statistics. A.P. Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The course consists of a year of work in statistics that is comparable to a one-semester introductory college statistics course. Students are exposed to four broad conceptual themes: 1. Exploring Data: Observing patterns and departures from data. 2. Planning a Study: Deciding what and how to measure. 3. Anticipating Patterns: Producing models using probability and simulation. 4. Statistical inference: Confirming models.

Course Name and Credit:	MA5341 ADVANCED PRE-CALCULUS 1	5 HRS.	11-12	J,K,W
	MA5342 ADVANCED PRE-CALCULUS 2	5 HRS.	11-12	J,K,W
	MA5343 ADVANCED PRE-CALCULUS 3	5 HRS.	11-12	J,K,W

Course Description: (Prerequisite: Teacher recommendation)
This course focuses on the major ideas of mathematics needed for calculus: an in-depth treatment of the fundamentals of trigonometry, an in-depth treatment of elementary functions with an introduction to limit, continuity, the derivative and application of maximum and minimum, and a preview of calculus with emphasis on applying differential calculus techniques to trigonometric, logarithmic, and exponential functions. The course's inclusion of real-world data allows for enhanced focus on statistical thinking as well as on applications, critical thinking, and the meaningful use of technology. Depth and rigor with the content, along with a faster pace, distinguish this course from Precalculus 1, 2, 3.

Course Name and Credit:	MA5370 STATISTICS & FINITE TOPICS 1	5 HRS.	11-12	J,K
	MA5371 STATISTICS & FINITE TOPICS 2	5 HRS.	11-12	J,K
	MA5372 STATISTICS & FINITE TOPICS 3	5 HRS.	11-12	J,K

Course Description: (Prerequisite: Successful completion of 2nd year Algebra)
This course is designed for college bound students, especially those planning to major in science, social sciences, or business. The course provides an introduction to the mathematics and logic used in scientific research. It includes data organization and statistical reasoning with emphasis on concepts and uses of statistics.

Descriptive and inferential statistics, as well as topics in the mathematics of finance, game theory and quality control are included.

Course Name and Credit:	MA5390P A.P. CALCULUS 1	5 HRS.	12	J,K,W
	MA5391P A.P. CALCULUS 2	5 HRS.	12	J,K,W
	MA5392P A.P. CALCULUS 3	5 HRS.	12	J,K,W

Course Description: (Prerequisite: Successful completion of Pre-Calculus)
The college-level class is designed to prepare students for the Advanced Placement Exam in Calculus. The AP (Calculus) course consists of a full year of work in calculus that is comparable to the first semester course in most colleges and universities. Topics covered include concepts and applications of functions, derivatives and antiderivatives, techniques of integration, and the definite integral. The AP Calculus course prepares students for advanced placement testing and possible college credits in mathematics. Students, at their own discretion, may elect to take examinations in mathematics administered by the AP Program of the College Entrance Examination Board.

Subject: Mathematics

Course Name	MA5411 PRE-CALCULUS 1	5 HRS.	12	J,K,M,W
and Credit:	MA5412 PRE-CALCULUS 2	5 HRS.	12	J,K,M,W
	MA5413 PRE-CALCULUS 3	5 HRS.	12	J,K,M,W

**Course
Description:**

(Prerequisite: Successful completion of 2nd yr. Algebra sequence)

This course focuses on the major ideas of mathematics needed for calculus: an in-depth treatment of the fundamentals of trigonometry, an in-depth treatment of elementary functions with an introduction to limit, continuity, the derivative and application of maximum and minimum, and a preview of calculus with emphasis on applying differential calculus techniques to trigonometric, logarithmic, and exponential functions. The course's inclusion of real-world data allows for enhanced focus on statistical thinking as well as on applications, critical thinking, and the meaningful use of technology.

Subject: Music

Course Name and Credit:	MU5710	MUSIC SURVEY 1	2.5 HRS.	9-12	J,K
	MU5711	MUSIC SURVEY 2	2.5 HRS.	9-12	J,K
	MU5712	MUSIC SURVEY 3	2.5 HRS.	9-12	J,K
	MU5713	MUSIC SURVEY 1	5 HRS.	9-12	J,K
	MU5714	MUSIC SURVEY 2	5 HRS.	9-12	J,K
	MU5715	MUSIC SURVEY 3	5 HRS.	9-12	J,K

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: For students with strong interest in and an aptitude for music. This course will provide advanced instruction in music theory, composition, history, conducting and career development. Accepted for credit in Honors Program.

Course Name and Credit:	MU5717P	A.P. MUSIC THEORY 1	5 HRS.	10-12	J,K,W
	MU5718P	A.P. MUSIC THEORY 2	5 HRS.	10-12	J,K,W
	MU5719P	A.P. MUSIC THEORY 3	5 HRS.	10-12	J,K,W

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: This college-level class is designed to prepare students for the Advanced Placement Exam in Music Theory.
For students with strong interest in and an aptitude for music. This course will provide advanced instruction in music theory, sight-singing, melodic and harmonic dictation. Musical forms and composition will be studied.
**Accepted for credit in Honors Program.

Course Name and Credit:	MU5800	BAND	5 HRS.	9-12	J,K,W
	MU5801	CONCERT BAND	5 HRS.	9-12	J,K,W
	MU5802	WIND SYMPHONY	5 HRS.	9-12	J,K,W

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: A continuing high-level band experience that requires some auditioning and performance attendance. This course will provide students with instrumental music instruction and a variety of performance experiences including marching, concert, chamber and pep band ensembles.

Course Name and Credit:	MU5840	STRING ORCHESTRA	5 HRS.	9-12	J,K,W
	MU5841	STRING ORCHESTRA	2.5 HRS.	9-12	J,K

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: A continuing high-level string orchestra experience that requires some auditioning and concert attendance. This course will provide students with instrumental string music instruction and a variety of performance experiences.

Course Name and Credit:	MU5850	SYMPHONY ORCHESTRA	2.5 HRS.	9-12	J,K,W
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CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: For all string orchestra members and wind and percussion musicians that have completed a successful audition. Students registering must also be enrolled in string orchestra and/or band. This course will provide instrumental music students with advanced orchestral instruction and performance.

Course Name and Credit:	MU5855	STRING ENSEMBLE	2.5 HRS.	9-12	J,K,W
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CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: For string students who want to perform chamber and classical music. Students registering must also be enrolled in string orchestra. This course will provide students with instrumental music instruction and the opportunity to perform in many varied situations.

Subject: Music

Course Name and Credit:	MU5870 JAZZ BAND I	2.5 HRS.	9-12	J,K,W
	MU5871 JAZZ BAND II	2.5 HRS.	9-12	K

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: For students who want a continuing high-level experience playing jazz music that requires some auditioning and concert attendance. Students registering must also be enrolled in band./orchestra/or by directors' discretion. This course will provide instruction in various jazz styles, improvisation and performance experiences.

Course Name and Credit:	MU5874 JAZZ IMPROVIZATION	2.5 HRS.	9-12	W
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CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: Open to any student interested in learning to improvise.

Course Name and Credit:	MU5882 H.S CHORUS	2.5 HRS.	9	J,K,W
	MU5883 H.S.CHORUS	5 HRS.	9	J

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: This course is open to any student interested in singing choral literature.

Course Name and Credit:	MU5892 MADRIGAL/CHAMBER CHOIR	2.5 HRS.	10-12	J,K,W
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CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: Selection for this choral ensemble is based upon a successful audition. This course will provide students with advanced choral music instruction and performance experiences.

Course Name and Credit:	MU5900 CONCERT CHOIR	5 HRS.	10-12	J,K,W
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CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: Selection for this choral ensemble is based upon a successful audition. This course will provide students with advanced vocal music instruction and performance experiences.

Course Name and Credit:	MU5930 SHOW ENSEMBLE AND BAND	2.5 HRS.	9-12	J,K,W
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CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: Selection for this ensemble is based upon a successful audition. This course will provide students with opportunities for creative expression through music and dance with many performance experiences.

Course Name and Credit:	MU5934 JAZZ CHOIR	2.5 HRS.	10-12	K,W
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CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

Course Description: Selection for this ensemble is based upon a successful audition. This course will provide students with an advanced experience in instruction and performance for vocal jazz music.

Subject: Music

Course Name	MU5954 HIGH SCHOOL SINGERS	2.5 HRS.	9-12	J,K,W
and Credit:	MU5955 HIGH SCHOOL SINGERS	5 HRS.	9-12	J

CAREER CLUSTER: ARTS, AUDIO/VISUAL TECHNOLOGY AND COMMUNICATION

**Course
Description:**

This course will provide students with a continuing intermediate choral experience that requires some auditioning and performance experiences.

Subject: Physical Education

Course Name and Credit: PE6000 UNIFIED PHYSICAL EDUCATION 2.5 HRS. 9-12 J,K,W

Course Description: (Registrants must have instructor approval for this class)
This course is aimed at allowing students that are physically and/or mentally challenged to successfully participate with regular education students in a physical education program. Activities are adapted to meet the needs of the handicapped students with an emphasis put on strength and coordination activities. Regular education students are blended into the program at the ratio of one regular education student paired with two special education students.

Course Name and Credit: PE6003 PHYSICAL EDUCATION: 9-10 2.5 HRS. 9-10 J,K,W

Course Description: The course includes conditioning and team and individual sports. Students interest and scheduling feasibility will determine which activities will be available. The activity and level of the student's skill will determine the amount of time spent on individual, small group, and class size instruction, drill, and participation. Each class will begin with 10-12 minutes of conditioning activities.

Course Name and Credit: PE6004 PHYSICAL EDUCATION: SWIMMING 2.5 HRS. 9-12 J,K,W

Course Description: The course includes water safety, floating, basic water survival skills, and lifetime water activities, as well as training in the Heimlich maneuver. More advanced swimmers will receive instruction in basic strokes, endurance swimming, and water survival.

Course Name and Credit: PE6005 PHYSICAL EDUCATION: WELLNESS 1 2.5 HRS. 9 J,K,W

Course Description: This course focuses on wellness and fitness through aerobics, weights, jogging, and other activities involved in helping students achieve immediate and long-term personal fitness goals. Each class will begin include conditioning activities nutrition, training, fitness aspects.

Course Name and Credit: PE6006 PHYSICAL EDUCATION: 11-12 2.5 HRS. 11-12 J,K,W

Course Description: This course includes conditioning and team and individual sports. Students interest and scheduling feasibility will determine which activities will be available. The activity and level of the student's skill will determine the amount of time spent on individual, small group, and class size instruction, drill, and participation. Each class will begin with 10-12 minutes of conditioning activities.

Course Name and Credit: PE6008 PHYSICAL EDUCATION 10 2.5 HRS. 10 J

Course Description: This course includes conditioning and skill work in both team and individual sports. Scheduling feasibility and the designated program of studies will determine which activities will be taught within this trimester. The activity and level of the student's skill will determine the amount of time spent on individual, small group, and class size instruction, drills, and participation.

Course Name and Credit: PE6009 PHYSICAL EDUCATION: WELLNESS 2 2.5 HRS. 10 J,K,W

Course Description: The Wellness 2 course at the sophomore year level will begin the investigation and study of the major health issues facing adolescents. Students will earn health credit for this course.

Subject: Physical Education

Course Name and Credit: PE6010 PHYSICAL EDUCATION: WELLNESS 3 2.5 HRS. 11-12 J,K,W

Course Description: The Wellness 3 course at the junior/senior year will continue the investigation and study of the major health issues facing adolescents in the new millenium 2000! Topics such as adolescent sexuality, stress, suicide, abusive relationships, healthy relationships, and teenage pregnancy will be included in the trimester long. Students will earn health credit for this course.

Course Name and Credit: PE6012 RHYTHMIC MOVEMENT 2.5 HRS. 9-12 J,K,W

Course Description: (Student must be enrolled in band to receive credit for this course)
This course includes conditioning and participation in aerobic activities. These activities assist in developing increased cardiovascular endurance.

Subject: Science

Course Name and Credit:	SC6220 FOUNDATIONS OF SCIENCE: EARTH	5 HRS.	9-12	J,K,M,W
	SC6221 FOUNDATIONS OF SCIENCE: MATTER	5 HRS.	9-12	J,K,M,W
	SC6222 FOUNDATIONS OF SCIENCE: ENERGY	5 HRS.	9-12	J,K,M,W
Course Description:	Foundations of Science will provide students with an understanding of concepts in matter, energy, motion, and earth systems. Scientific inquiry will be emphasized in this laboratory science course. Concepts from this course will provide the foundation for future success in Chemistry, Physics, and Earth Science.			

Course Name and Credit:	SC6231 ENVIRONMENTAL SCIENCE 1	5 HRS.	9-12	J,K,M,W
	SC6232 ENVIRONMENTAL SCIENCE 2	5 HRS.	9-12	J,K,M,W
	SC6233 ENVIRONMENTAL SCIENCE 3	5 HRS.	9-12	J,K,M,W
Course Description:	Environmental Science is a year-long class designed to develop an understanding of essential science concepts including properties of matter and living organisms. Scientific problem solving skills will be developed within the context of environmental science.			

Course Name and Credit:	SC6310 BOTANY AND HORTICULTURE	5 HRS	10-12	J,K,M,W
	CAREER CLUSTER: AGRISCIENCE AND NATURAL RESOURCES			
Course Description:	(Prerequisite: FOUNDATIONS OF SCIENCE or approval of instructor) Botany and Horticulture is a course designed to study plant structure, function and propagation. Students will learn to grow and care for a variety of plants. Landscaping and gardening techniques will be examined. Recommended for students interested in careers in agriscience and natural resources.			

Course Name and Credit:	SC6318 ECOLOGICAL PROBLEMS	5 HRS.	10-12	J,K,M,W
	CAREER CLUSTER: AGRISCIENCE AND NATURAL RESOURCES			
Course Description:	(Prerequisite: FOUNDATIONS OF SCIENCE or approval of instructor) Ecological Problems is designed to provide the student with an understanding of the ecological principles and environmental problems effecting natural and human systems. Recommended for students interested in careers in agriscience and natural resources, the health sciences or environmental technology.			

Course Name and Credit:	SC6320 BIOLOGY 1	5 HRS.	9-12	J,K,M,W
	SC6321 BIOLOGY 2	5 HRS.	9-12	J,K,M,W
	SC6322 BIOLOGY 3	5 HRS.	9-12	J,K,M,W
Course Description:	Freshman choosing to take the course are expected to take 4 years of science. Biology 1, 2 and 3 includes core biological concepts. This series will best prepare a student for post-secondary education. It is strongly recommended that these courses be taken in sequence. Biology 1 includes an introduction to elements of life, classification, and cell structure and function. The focus of this first course compares living systems, including, communication, movement and support and reproduction. Biology 2 continues to compare living systems including digestion, excretion, respiration and transport. Biology 3 provides an in-depth study of genetics. This third course focuses on fundamental genetic principles, current applications, and their impacts on society.			

Course Name and Credit:	SC6326 GEOLOGY	5 HRS.	10-12	J,K,M,W
	CAREER CLUSTER: AGRISCIENCE AND NATURAL RESOURCES			
Course Description:	(Prerequisite: FOUNDATIONS OF SCIENCE or approval of instructor) Freshman choosing to take this course are expected to take 4 years of science. Geology is designed to provide the student with an understanding of the Earth's crust, its shape, composition, and history. Recommended for students interested in careers in agriscience and natural resources or environmental technology, or engineering and related technologies.			

Course Name and Credit:	SC6328 ASTRONOMY	5 HRS.	10-12	J,K,M,W
	CAREER CLUSTER: AGRISCIENCE AND NATURAL RESOURCES			
Course Description:	(Prerequisite: FOUNDATIONS OF SCIENCE or approval of instructor) Astronomy provides a basic study of light, planets, stars, constellations and other essential information about the universe. Recommended for students interested in careers in earth/space science and aerospace engineering.			

Subject: Science

Course Name and Credit: SC6334 OCEANOGRAPHY AND METEOROLOGY 5 HRS. 10-12 J,K,M,W

Course Description: (Prerequisite: FOUNDATIONS OF SCIENCE or approval of instructor)
Oceanography and Meteorology provides the student with a basic understanding of the earth's oceans and weather patterns. Chemical and physical aspects of the ocean and their effect on our weather and climate are examined. Recommended for students interested in careers in agriscience and natural resources, or earth/space engineering and technology.

Course Name and Credit: SC6345P A.P. ENVIRONMENTAL SCIENCE 1 5 HRS. 10-12 K,W
SC6346P A.P. ENVIRONMENTAL SCIENCE 2 5 HRS. 10-12 K,W
SC6347P A.P. ENVIRONMENTAL SCIENCE 3 5 HRS. 10-12 K,W

Course Description: (Prerequisite: 15 hours of science)
This college-level class is designed to prepare students for the Advanced Placement Exam in Environmental Science.
AP Environmental Science provides an opportunity for students to develop skills, both laboratory and field related, in the environmental sciences as well as acquire the scientific background to current ecological problems. Recommended for students who want to pursue a rigorous course covering environmental topics such as population, pollution, energy and resources.

Course Name and Credit: SC6384 FIELD BIOLOGY 5 HRS. 10-12 K,M
CAREER CLUSTER: AGRISCIENCE AND NATURAL RESOURCES

Course Description: (Prerequisite: FOUNDATIONS OF SCIENCE or approval of instructor)
Purpose: To investigate native organisms using basic ecological techniques. Outdoor work is required. Recommended for students interested in careers in Iowa life forms or college biology oriented individuals. This is a second year biology course, which should be taken after Biology I by students who are interested in continuing their study of biology without the rigor of Advanced Placement coursework. Students frequently take this course along with Ecological Problems and Botany to give them one year of science credit.

Course Name and Credit: SC6445P A.P. BIOLOGY 1 5 HRS. 10-12 J,K,W
SC6446P A.P. BIOLOGY 2 5 HRS. 10-12 J,K,W
SC6447P A.P. BIOLOGY 3 5 HRS. 10-12 J,K,W

Course Description: (Prerequisites: 30 hours of science or consent of instructor. Biology 1,2, and 3 required, and Chemistry is strongly recommended)
This college-level class is designed to prepare students for the Advanced Placement Exam in Biology. The AP Biology course is designed to be taken by students only after successful completion of a first course in high school biology and one in high school chemistry. It provides students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Major areas include: molecules and cells; heredity and evolution; organisms and populations. Recommended for students interested in advanced study of biology, medicine, or related scientific and engineering fields.

Course Name and Credit: SC6501 CHEMISTRY 1 5 HRS. 10-12 J,K,W
SC6502 CHEMISTRY 2 5 HRS. 10-12 J,K,W
SC6503 CHEMISTRY 3 5 HRS. 10-12 J,K,W

Course Description: (Prerequisite: 2nd year Algebra or concurrent enrollment strongly recommended)
Chemistry is designed to provide an introduction to some of the basic concepts in chemistry. Recommended for students interested in careers in science, the health sciences, and engineering.

Course Name and Credit: SC6540P A.P. CHEMISTRY 1 5 HRS. 11-12 J,K,W
SC6541P A.P. CHEMISTRY 2 5 HRS. 11-12 J,K,W
SC6543P A.P. CHEMISTRY 3 5 HRS. 11-12 J,K,W

Course Description: (Prerequisite: Chemistry 3 & 2nd year Algebra)
This college-level class is designed to prepare students for the Advanced Placement Exam in Chemistry. The AP Chemistry course is designed to be taken only after the successful completion of a first course in high school chemistry and second-year algebra. Students will develop a depth of understanding of fundamental chemistry concepts and reasonable competence in dealing with chemical problems. Emphasis will be on chemical calculations and the mathematical formulation of principles developed through laboratory experiences equivalent to those of a typical college course. Recommended for students enrolling in college chemistry and students interested in careers in science, medicine, and engineering.

Subject: Science

Course Name and Credit:	SC6620 PRINCIPLES OF TECHNOLOGY I - 1	5 HRS.	10-12	J,K,W
	SC6621 PRINCIPLES OF TECHNOLOGY I - 2	5 HRS.	10-12	J,K,W
	SC6622 PRINCIPLES OF TECHNOLOGY I - 3	5 HRS.	10-12	J,K,W

Course Description: Engineering Technology Academy (Prerequisites: 15 hours of science and successful completion of first year algebra) (Articulated credit - Student must apply for credit when registering at Kirkwood Community College)
Studies the concepts of force, parameter, rate, resistance, energy loss and introduction to magnetism. Introduces resistive-capacitive-inertive systems. This course uses the UTC format. All topics are presented with cross-disciplinary applications: mechanical, fluid, electrical and thermal.

Course Name and Credit:	SC6623 PRINCIPLES OF TECHNOLOGY II - 1	5 HRS.	11-12	J,K,W
	SC6624 PRINCIPLES OF TECHNOLOGY II - 2	5 HRS.	11-12	J,K,W
	SC6625 PRINCIPLES OF TECHNOLOGY II - 3	5 HRS.	11-12	J,K,W

Course Description: Engineering Technology Academy (Prerequisite: Principles of Technology I) (Articulated credit - Student must apply for credit when registering at Kirkwood Community College)
Continues UTC Physics I. Builds on resistive-capacitive-inertive systems including forced oscillation, waves and radiated energy.

Course Name and Credit:	SC6661 PHYSICS 1	5 HRS.	10-12	J,K,W
	SC6662 PHYSICS 2	5 HRS.	10-12	J,K,W
	SC6663 PHYSICS 3	5 HRS.	10-12	J,K,W

Course Description: (Prerequisite: 2nd yr. Algebra or concurrent enrollment strongly recommended)
Physics is designed to provide a general background in physics. Recommended for students interested in careers in science and engineering related fields.

Course Name and Credit:	SC6670P A.P. PHYSICS B 1	5 HRS.	11-12	J,K,W
	SC6671P A.P. PHYSICS B 2	5 HRS.	11-12	J,K,W
	SC6672P A.P. PHYSICS B 3	5 HRS.	11-12	J,K,W

Course Description: (Prerequisite: consent of instructor, 2nd year Algebra, and concurrent enrollment in pre-Calculus. AP Physics typically follows an introductory physics course.)
This college-level class is designed to prepare students for the Advanced Placement Exam in Physics. AP Physics is intended to be representative of introductory college courses that are Algebra based. Students will: 1. Read, understand, and interpret physical information (verbal, mathematical, and graphical). 2. Describe and explain the sequence of steps in the analysis of a particular physical phenomenon or problem. 3. Use basic mathematical reasoning. 4. Perform experiments and interpret the results of observations. Recommended for students who wish to pursue careers in engineering, medicine, and science.

Course Name and Credit:	SC6680P A.P. PHYSICS C 1	5 HRS.	11-12	K
	SC6681P A.P. PHYSICS C 2	5 HRS.	11-12	K
	SC6682P A.P. PHYSICS C 3	5 HRS.	11-12	K

Course Description: (Prerequisite: consent of instructor, 2nd year Algebra, and concurrent enrollment in pre-calculus. AP Physics typically follows an introductory physics course.)
This college-level class is designed to prepare students for the Advanced Placement Exam in Physics. AP Physics C is a calculus-based course. This is a class designed for those students who have some prior physics experience and are interested in technical science majors in college, and who are at least concurrently enrolled in calculus.

In the typical Physics C course, roughly one-half year is devoted to mechanics. Use of calculus in problem solving and in derivations is expected to increase as the course progresses. In the second half-year of the C course, the primary emphasis is on classical electricity and magnetism. Calculus is used frequently in formulating principles and solving problems.

Subject: Social Studies

Course Name and Credit: SS7006 AFRICAN-AMERICAN CULTURAL HISTORY 5 HRS. 10-12 W

Course Description: (Elective)
A contemporary survey of African-American intellectual history and tradition in the United States. This is an interdisciplinary history/humanities course. Consultation with the instructor is recommended.

Course Name and Credit: SS7009 AMERICAN GOVERNMENT 1 5 HRS. 12 J,K,M,W
SS7010 AMERICAN GOVERNMENT 2 5 HRS. 12 J,K,M,W

Course Description: (Meets requirements for graduation) (Prerequisite: Completion of the U.S. History series)
These courses present a study of the structure and function of our government as established by the Constitution. The emphasis of both courses is on the knowledge and behaviors necessary for effective citizenship within our world, nation, state, and community. Government 1 emphasizes the federal government. Government 2 concentrates on state law and local government.

Course Name and Credit: SS7012 PERSONAL LAW AND GOVERNMENT 5 HRS. 9-10 J,K,M,W
CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description: (Meets requirement for graduation. Course may be taken by freshmen and sophomore students in place of Government II)
The emphasis of this course is on understanding the need for law and the different types and systems of law. Local and state government studies as they relate to issues of personal law will be a primary focus of the course. The rights and responsibilities of individuals will be studied in relationship to the need for society to provide justice for all.

Course Name and Credit: SS7013 GLOBAL GEOGRAPHY 5 HRS. 9 J,K,W
CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description: (Elective)
Global Geography attempts to understand the physical and cultural features of places and their natural settings on the Earth. The emphasis of this course is on understanding the basic geographical topics of topography, climate, resources, population, and political division.

Course Name and Credit: SS7014 INTRODUCTION TO SOCIAL STUDIES 5 HRS. 9 J,K,W
CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description: (Elective)
The emphasis of this course is on understanding how humans develop their thinking processes, the psychology of the learning process, and the various aspects of interpersonal relations.

Course Name and Credit: SS7016P A.P. AMERICAN GOVERNMENT I 5 HRS. 12 J,K,W

Course Description: (Meets requirements for graduation) (Prerequisite: Completion of the U.S. History series)
This college-level class is designed to prepare students for the Advanced Placement Exam in U.S. Government & Politics.
This course provides students with a comprehensive and critical perspective on the development of Constitutional government in the United States. Students will examine, in detail, the government established by the Constitution, with particular emphasis on the separation of powers and federalism. Students will also work extensively with ideological and philosophical traditions from which the framers drew inspiration and the historical setting which influenced their work.

Subject: Social Studies

Course Name and Credit: SS7017P A.P. AMERICAN GOVERNMENT 2 5 HRS. 12 J,K,W

Course Description: (Meets requirements for graduation) (Prerequisite: Completion of the U.S. History series)
 This college-level class is designed to prepare students for the Advanced Placement Exam in U.S. Government & Politics.
 This course is designed to give students a comprehensive and critical perspective on the operation of Constitutional government in the United States. Students will analyze the historical evolution of political parties, the relationship between issues and voting patterns, the development and defense of civil rights and national government, political parties, interest groups, and public government in order to understand how laws and public policy are made.

Course Name and Credit: SS7115 ECONOMICS 5 HRS. 12 J,K,M,W

Course Description: (Meets requirements for graduation)
 The basic economic questions regarding what to produce, how to produce, and for whom to produce in a world of limited resources are the focus of the course, including applications to the business community.

Course Name and Credit: SS7120 SOCIOLOGY 5 HRS. 11-12 K,W
 CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description: (Elective) (Prerequisite: Completion of the World History series)
 This course emphasizes how human beings interact with the values, beliefs, norms, and institutions of a society. How individuals are socialized into a society is also explored.

Course Name and Credit: SS7122 PSYCHOLOGY 5 HRS. 11-12 J,K,W
 CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description: (Elective) (Prerequisite: Completion of the World History series)
 The emphasis of this course is on the diversity of factors influencing the motivation, development, structure, and behavior of human personalities.

Course Name and Credit: SS7124 WORLD HISTORY 1 5 HRS. 10 J,K,M,W
 SS7125 WORLD HISTORY 2 5 HRS. 10 J,K,M,W
 SS7126 WORLD HISTORY 3 5 HRS. 10 J,K,M,W

Course Description: (Meets requirements for graduation)
 This series of courses begins with the study of the early civilizations of the world, traces the development of the economic, political, social, and intellectual traditions of the world's major cultures, and concludes with an investigation of contemporary international problems. The courses endeavor to familiarize students with their cultural heritage and to expand their awareness of the similarities, differences, and interdependence of cultures of the world. The courses emphasize the development of basic learning and thinking skills. The series should be taken in sequence for maximum benefit.

Course Name and Credit: SS7147P A.P. MICRO ECONOMICS 5 HRS. 12 J,K,W

Course Description: (Meets requirements for graduation)
 This college-level class is designed to prepare students for the Advanced Placement Exam in Microeconomics.
 This course studies the principles that apply to the functions of individual decision-makers, both consumers and producers, within a mixed market. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy.

Subject: Social Studies

Course Name and Credit:	SS7148P A.P. MACRO ECONOMICS	5 HRS.	12 J,K,W
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Course Description:	(Meets requirements for graduation) This college-level class is designed to prepare students for the Advanced Placement Exam in Macroeconomics. This course studies the principles of economics that apply to the economic system as a whole. It places particular emphasis on the study of national income and price determination, and also develops the concepts of economic performance measures, economic growth, and international economics.
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Course Name and Credit:	SS7149P A.P. MICRO/MACRO ECONOMICS	5 HRS.	12 K,W
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Course Description:	CAREER CLUSTER: BUSINESS INFORMATION MANAGEMENT AND MARKETING (Prerequisite: Satisfactory completion of AP Micro, AP Macro, Economics I and Economics II) This college-level class is designed to prepare students for the Advanced Placement Exam in Macroeconomics and Microeconomics. Students enrolling in AP Economics 3 are required to register and complete the College Board Advanced Placement Micro and Macro Economics examination. This course studies current topics and issues within Micro and Macro Economics. Emphasis is placed on identification of problems, applications of micro and/or macro economic principles and developing coherent and logical written responses to problems. The course specifically prepares students for Advanced Placement testing in Micro and Macro Economics.
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Course Name and Credit:	SS7150P A.P. PSYCHOLOGY 1	5 HRS.	11-12 K,W
	SS7151P A.P. PSYCHOLOGY 2	5 HRS.	11-12 K,W
	SS7152P A.P. PSYCHOLOGY 3	5 HRS.	11-12 K,W

CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description:	(Elective) This college-level class is designed to prepare students for the Advanced Placement Exam in Psychology. Throughout this course, students engage in the systematic and scientific study of behavior and mental processes. Students must interrelate different content areas to analyze and evaluate psychological constructs, and more generally, theoretical perspectives. Students are expected to use their analytical and organizational skills in written essays.
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Course Name and Credit:	SS7160 U.S. HISTORY 1	5 HRS.	11 J,K,M,W
	SS7163 U.S. HISTORY 2	5 HRS.	11 J,K,M,W
	SS7166 U.S. HISTORY 3	5 HRS.	11 J,K,M,W

Course Description:	(Meets requirements for graduation) This course surveys United States history from 1870-Present. It places emphasis on the evolution of political and economic institutions. Additionally, the course studies the diversity of peoples as they attempt to interact in a dynamic, social-cultural environment.
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Course Name and Credit:	SS7167P A.P. EUROPEAN HISTORY 1	5 HRS.	10 K,W
	SS7168P A.P. EUROPEAN HISTORY 2	5 HRS.	10 K,W
	SS7169P A.P. EUROPEAN HISTORY 3	5 HRS.	10 K,W

Course Description:	(Meets requirements for graduation) This college-level class is designed to prepare students for the Advanced Placement Exam in European History. This series of courses surveys the history of the world, beginning with a survey of ancient and medieval civilizations. The emphasis of the course is on the modern world (1300-present) and the impact Western European civilization has had on contemporary affairs. The course prepares students for advanced placement testing and possible college creditation in European history by emphasizing historiographers and refinement of historical-interpretive writing. The series must be taken in sequence for maximum benefit.
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Subject: Social Studies

Course Name and Credit: SS7170P A.P. WORLD HISTORY 1 5 HRS. 10 J,K,W
 SS7171P A.P. WORLD HISTORY 2 5 HRS. 10 J,K,W
 SS7172P A.P. WORLD HISTORY 3 5 HRS. 10 J,K,W

Course Description: (Meets requirement for graduation)
 This college-level class is designed to prepare students for the Advanced Placement Exam in World History.
 This series of courses surveys the history of the world, beginning with a review of major topics and watershed events prior to 1000 C.E. The primary focus of the course is on the past 1000 years of global experiences. Taught through major themes of interaction, change and continuity, technology, and social structures, the course examines civilizations in Asia, Africa, and the Americas. This course prepares students for advanced placement testing and possible college creditation by emphasizing historiography and the refinement of thinking and writing skills. The series must be taken in sequence for maximum benefit.

Course Name and Credit: SS7200 PHILOSOPHY 5 HRS. 11-12 K,W
 CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description: (Elective) (Prerequisite: Completion of the World History series)
 This course is a survey of the major topics of the discipline; logic, metaphysics, reality, ethics, religion, and the purpose of life.

Course Name and Credit: SS7201 ETHNIC AND CULTURAL DIVERSITY IN AMERICA 5 HRS. 10-12 J,K,W
 CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description: (Elective)
 The emphasis of the course is on understanding the course and nature of prejudice. The focus is on contemporary problems faced by minority groups in the United States. Historical contributions and struggles of minority groups will be examined and related to present day life.

Course Name and Credit: SS7432 SOCIAL PSYCHOLOGY 5 HRS. 11-12 J,K,W
 CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description: (Elective) (Prerequisite: Completion of the World History series and Psychology and Sociology are recommended, but not required)
 The emphasis of this course is on the concepts of racism, prejudice, alienation, conformity, and the dynamics of social behavior.

Course Name and Credit: SS7450P A.P. HUMAN GEOGRAPHY 1 5 HRS. 9-10 K,W
 SS7451P A.P. HUMAN GEOGRAPHY 2 5 HRS. 9-10 K,W
 SS7452P A.P. HUMAN GEOGRAPHY 3 5 HRS. 9-10 K,W

CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description: This college-level class is designed to prepare students for the Advanced Placement Exam in Human Geography.
 Systematic study of patterns and processes that have shaped human understanding through use and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to analyze social organization and its environmental consequences. The course involves the study of urban, economic, political, and demographic geography. The course outline is consistent with the College Board's Advanced Placement Human Geography program.

Subject: Social Studies

Course Name and Credit:	SS7486P	A.P. U.S. HISTORY 1	5 HRS.	11	J,K,W
	SS7487P	A.P. U.S HISTORY 2	5 HRS.	11	J,K,W
	SS7488P	A.P. U.S. HISTORY 3	5 HRS.	11	J,K,W

**Course
Description:**

(Meets requirements for graduation)
This college-level class is designed to prepare students for the Advanced Placement Exam in U.S. History.
AP United States History is a survey of the history of the United States from 1492 to the Present. Emphasis is placed on an understanding of the historical concepts and generalizations as outlined by the College Board's Advanced Placement United States History Program. The course places specific emphasis on assessing historical materials - their relevance to a given interpretive problem and their reliability and importance - by weighting the evidence and interpretations presented in historical scholarship.

Course Name and Credit:	SS9200P	A.P. COMPARATIVE GOVERNMENT 1	5 HRS.	12	W
	SS9210P	A.P. COMPARATIVE GOVERNMENT 2	5 HRS.	12	W
	SS9211P	A.P. COMPARATIVE GOVERNMENT 3	5 HRS.	12	W

CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

**Course
Description:**

(Elective) (Prerequisite: Completion of the U.S. History series)
This college-level class is designed to prepare students for the Advanced Placement Exam in Comparative Government and Politics.
This course is designed to provide students with an understanding of the world's diverse political structures and practices. Four national governments (Great Britain, France, Russia, and China) are studied as examples of different political systems. A developing nation (Mexico, India, or Nigeria) is also included as students learn about the political implications of different levels of economic development.

Subject: Special Education

Course Name and Credit: SE2200 BASIC LANGUAGE ARTS 5 HRS. 9-12 M

Course Description: This course is for students who are significantly below proficiency level on standardized measures. Students will use the Jamestown Series to support fluency and comprehension. Instruction will be supplemented with the use of the Successmaker reading software. In addition to Jamestown, reading selections are from short stories, newspapers and chapter books. The reading focus is on comprehension, fluency, vocabulary and main idea. The writing focus includes units of study on grammar and creating 1-2 paragraphs using a topic sentence, supporting details and closing sentences.

Course Name and Credit: SE2356 THEATER ARTS 5 HRS. 9-12 M

Course Description: The purpose of this course is to introduce students to the experience of theater. Students learn terminology, technique, history and performance. Theater challenges students to step out onto the stage and to step out of themselves. Students also work on developing their writing, reading and speaking skills. Through various forms of improvisation and character development, students build a greater sense of self-confidence and teamwork. They develop an appreciation of literature by reading short plays and monologues. Students also spend time writing original short plays and monologues.

Course Name and Credit: SE2421 PERSPECTIVES IN LITERATURE & COMPOSITION 1 5 HRS. 11-12 J,K,W
 SE2422 PERSPECTIVES IN LITERATURE & COMPOSITION 2 5 HRS. 11-12 J,K,W
 SE2423 PERSPECTIVES IN LITERATURE & COMPOSITION 3 5 HRS. 11-12 J,K,W

Course Description: (Prerequisite: Special education placement and teacher recommendation)
 Fulfills Language Arts Requirement Grade 11 or Grade 12. The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. This class will study recurring themes in texts from the U.S. and around the world. Literary works will be selected from works published within the last twenty years and will include fiction and non-fiction, print and non-print sources. Students will demonstrate their knowledge through creative and expository writing, formal and informal speaking, and production of media texts.

Course Name and Credit: SE2431 WORLD HUMANITIES & COMPOSITION 1 5 HRS. 11-12 J,K,W
 SE2432 WORLD HUMANITIES & COMPOSITION 2 5 HRS. 11-12 J,K,W
 SE2433 WORLD HUMANITIES & COMPOSITION 3 5 HRS. 11-12 J,K,W

Course Description: (Prerequisite: Special education placement and teacher recommendation)
 Fulfills Language Arts Requirement Grade 11 or Grade 12. The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. Students will read, analyze, and interpret art, music, architecture, and literature from a wide variety of cultures and historical periods. Students will respond to these works in written compositions and oral presentations. Media resources will be used for investigations, study, and communication of ideas.

Course Name and Credit: SE2441 US HUMANITIES & COMPOSITION 1 5 HRS. 11-12 J,K,W
 SE2442 US HUMANITIES & COMPOSITION 2 5 HRS. 11-12 J,K,W
 SE2443 US HUMANITIES & COMPOSITION 3 5 HRS. 11-12 J,K,W

Course Description: (Prerequisite: Special education placement and teacher recommendation)
 Fulfills Language Arts Requirement Grade 11 or Grade 12. The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. Students will explore US literature, music, visual arts, and dance. They will research and respond to these components of the humanities in the United States through a variety of creative and expository written and oral assignments. Resources will encompass the many cultural influences found in the US.

Course Name and Credit: SE6220 FOUNDATIONS OF SCIENCE: EARTH 5 HRS. 9-12 J,K,M,W
 SE6221 FOUNDATIONS OF SCIENCE: MATTER 5 HRS. 9-12 J,K,M,W
 SE6223 FOUNDATIONS OF SCIENCE: ENERGY 5 HRS. 9-12 J,K,M,W

Course Description: Foundations of Science will provide students with an understanding of concepts in matter, energy, motion and earth systems. Scientific inquiry will be emphasized in this laboratory science. Concepts from this course will provide foundation for future success in Chemistry, Physics, and Earth Science.

Subject: Special Education

Course Name and Credit:	SE6231 ENVIRONMENTAL SCIENCE 1	5 HRS.	9	J,K,W
	SE6232 ENVIRONMENTAL SCIENCE 2	5 HRS.	9	J,K,W
	SE6233 ENVIRONMENTAL SCIENCE 3	5 HRS.	9	J,K,W

Course Description: (Prerequisite: Special education placement and teacher recommendation)
The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. This course provides students with understanding of essential science concepts including properties of matter and living organisms. The class will explore the environment and the cycles needed for the interactions of the various organisms within the ecosystem. Scientific problem solving will be developed within the context of environmental science.

Course Name and Credit:	SE6320 BIOLOGY 1	5 HRS.	10-12	J,K,W
	SE6321 BIOLOGY 2	5 HRS.	10-12	J,K,W
	SE6322 BIOLOGY 3	5 HRS.	10-12	J,K,W

Course Description: (Prerequisite: Special education placement and teacher recommendation)
The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. This course provides students with a general background in biology. The course compares living systems of various representative organisms with an emphasis on human anatomy, physiology, and heredity in living organisms.

Course Name and Credit:	SE9804 PERSONAL LAW	5 HRS.	9-12	W
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Course Description: (Prerequisite: Special education placement and teacher recommendation)
The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. The emphasis of this course is on understanding the need for law and different types and systems of law. Local and state government studies as they relate to issues of personal law will be a primary focus of the course. The rights and responsibilities of individuals will be studied in relation to the need for society to provide justice for all.

Course Name and Credit:	SE9900 COMPUTER OVERVIEW 1	5 HRS.	9-12	J,K,W
	SE3011 COMPUTER OVERVIEW 2	5 HRS.	9-12	J,W

Course Description: (Prerequisite: Ability to touch type or instructor approval)
The students will produce, store, edit, retrieve, and print documents using word processing, database, spreadsheet, and desktop publishing applications with proper formatting and proof reading. They will also learn to use the internet as a resource.

Course Name and Credit:	SE9901 DIRECTED STUDIES	5 HRS.	9-12	J,K,W
	SE9902 DIRECTED STUDIES	2.5 HRS.	9-12	J,K,W

Course Description: (Prerequisites: Special education placement and teacher recommendation)
This course provides students with instructional strategies to meet specific area(s) of academic weakness in a small group or independent study setting.

Course Name and Credit:	SE9904 ALGEBRA 1	5 HRS.	10-12	J,K,W
	SE9905 ALGEBRA 2	5 HRS.	10-12	J,K,W
	SE9906 ALGEBRA 3	5 HRS.	10-12	J,K,W

Course Description: (Prerequisite: Special education placement and teacher recommendation)
The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. This course uses real-world contexts to develop linear and quadratic functions numerically, symbolically, and graphically. Basic algebra skills are developed, applied, and emphasized throughout. The course integrates technology as a problem-solving tool and connects algebra to geometry, data analysis, probability, and real life situations.

Course Name and Credit:	SE9907 CAREER AWARENESS 1	2.5 HRS.	9	J,W
	SE9908 CAREER AWARENESS 2	2.5 HRS.	9	J,W
	SE9909 CAREER AWARENESS 3	2.5 HRS.	9	J,W

Course Description: (Prerequisite: Special education placement and teacher recommendation)
This course gives students the opportunity to explore careers and possible career alternatives.

Subject: Special Education

Course Name and Credit:	SE9910 INTRO. TO CAREER EDUCATION 1	2.5 HRS.	10	J,K,W
	SE9911 INTRO. TO CAREER EDUCATION 2	2.5 HRS.	10	J,K,W
	SE9912 INTRO. TO CAREER EDUCATION 3	2.5 HRS.	10	J,K,W

Course Description: (Prerequisites: Special education placement and teacher recommendation)
This course gives students the opportunity to explore individual interests and aptitudes to increase awareness of career opportunities and options, and to enhance students' ability to apply interpersonal skills needed for success on the job.

Course Name and Credit:	SE9913 WORLD OF WORK 1	2.5 HRS.	11	J,K
	SE9914 WORLD OF WORK 2	2.5 HRS.	11	J,K
	SE9915 WORLD OF WORK 3	2.5 HRS.	11	J,K

Course Description: (Prerequisites: Special education placement and teacher recommendation)
This course assists students in acquiring additional job seeking skills, maintenance skills and other related information necessary for future employment.

Course Name and Credit:	SE9916 CAREER PLANNING 1	2.5 HRS.	12	J,K,W
	SE9917 CAREER PLANNING 2	2.5 HRS.	12	J,K,W
	SE9918 CAREER PLANNING 3	2.5 HRS.	12	J,K,W

Course Description: (Prerequisite: Special education placement and teacher recommendation)
This course assists students with the transition from school to employment. The course teaches students how to seek, obtain, and maintain a paid post-high school job and/or enroll in a job-training program.

Course Name and Credit:	SE9919 EXPLORING CAREER EXPERIENCE	2.5 HRS.	10-12	J,K,W
	SE9920 EXPLORING CAREER EXPERIENCE	5 HRS.	10-12	J,K,W

Course Description: (Prerequisites: Special education placement and teacher recommendation.)
This course helps students improve job habits, become productive employees, and develop an awareness of various career opportunities in a non-paid experience.

Course Name and Credit:	SE9921 WORK EXPERIENCE	2.5 HRS.	10-12	J,K,W
	SE9922 WORK EXPERIENCE	5 HRS.	10-12	J,K,W

Course Description: (Prerequisite: Special education placement and teacher recommendation)
This class is for students who would benefit from holding a part time job. Students would improve job habits, become productive employees, and develop an awareness of various career opportunities.

Course Name and Credit:	SE9924 STUDY SKILLS 1	2.5 HRS.	9-12	J,W
	SE9925 STUDY SKILLS 2	2.5 HRS.	9-12	J,W
	SE9926 STUDY SKILLS 3	2.5 HRS.	9-12	J,W

Course Description: (Prerequisite: Special education placement and teacher recommendation)
This course provides students with study skills through direct instruction.

Course Name and Credit:	SE9934 READING IMPROVEMENT 1	5 HRS.	9-12	J,K,W
	SE9935 READING IMPROVEMENT 2	5 HRS.	9-12	J,K,W
	SE9936 READING IMPROVEMENT 3	5 HRS.	9-12	J,K,W

Course Description: (Prerequisites: Special education placement and teacher recommendation) This course provides students with a direct-instruction reading program to enhance and improve his/her instructional reading level. The emphasis is on decoding skills, word analysis, and reading comprehension.

Course Name and Credit:	SE9937 CONTEMPORARY LITERATURE	5 HRS.	11-12	W
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Course Description: (Prerequisites: Special education placement and teacher recommendation)
This course provides students with varied reading experiences so they can understand the life experiences of others through literature and apply those experiences to their own lives.

Subject: Special Education

Course Name and Credit: SE9938 NEWSPAPERS, PERIODICALS, AND NON-PRINT MEDIA 5 HRS. 11-12 J,W

Course Description: (Prerequisites: Special education placement and teacher recommendation)
This course increases student awareness of the types of mass media to include: newspapers, magazines, photography, film, radio, and television. Students develop critical analysis of the media through written and oral communication.

Course Name and Credit: SE9939 BASIC LANGUAGE SKILLS 5 HRS. 11-12 J

Course Description: (Prerequisite: Special education placement and teacher recommendation)
This course provides students with varied activities in order to improve and expand fundamental writing skills. Emphasis is placed on areas of: spelling, capitalization, punctuation, word usage, sentences, paragraphs, themes, and research.

Course Name and Credit: SE9940 COMMUNICATION FOR DAILY LIVING 5 HRS. 11-12 J

Course Description: (Prerequisite: Special education placement and teacher recommendation)
This course equips students with practical writing and speaking skills for use as workers, citizens, and family members. Emphasis is on adult responsibility, cooperation, and problem-solving techniques.

Course Name and Credit: SE9945 BASIC WRITING SKILLS 5 HRS. 11-12 J

Course Description: (Prerequisite: Special education placement and teacher recommendation)
This course provides students with exposure to and practical experience with writing that is related to vocational and practical experiences.

Course Name and Credit: SE9946 BASIC SPEAKING SKILLS 5 HRS. 11-12 J

Course Description: (Prerequisite: Special education placement and teacher recommendation)
This course provides students with instruction and practice in the various speaking skills needed in school, vocational, and social settings.

Course Name and Credit: SE9950 FOODS AND NUTRITION 1 5 HRS. 9-12 J,K,W
SE9951 FOODS AND NUTRITION 2 5 HRS. 9-12 J,K,W
SE9952 FOODS AND NUTRITION 3 5 HRS. 9-12 J,K,W

Course Description: (Prerequisites: Special education placement and teacher recommendation)
The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. This course gives students the opportunities to apply skills and principles involved in preparing and serving food.

Course Name and Credit: SE9953 INDEPENDENT LIVING 5 HRS. 9-12 J,W

Course Description: (Prerequisites: Special education placement and teacher recommendation)
This course provides students with daily living skills necessary for independence, including personal needs, recreation, leisure time, mobility, and management.

Course Name and Credit: SE9954 FAMILY LIVING 1 5 HRS. 9-12 J,W
SE9955 FAMILY LIVING 2 5 HRS. 9-12 J,W

Course Description: (Prerequisites: Special education placement and teacher recommendation)
This course provides student with family living skills, which include topics such as: values, interpersonal relationships, communication, dating, mate selection, solving marital problems, crisis, parenting skills, and family planning.

Subject: Special Education

Course Name and Credit:	SE9963 ALGEBRA PREP 1	5 HRS.	9-12 J,K,W
	SE9964 ALGEBRA PREP 2	5 HRS.	9-12 J,K,W
	SE9965 ALGEBRA PREP 3	5 HRS.	9-12 J,K,W

Course Description: (Prerequisite: Special education placement and teacher recommendation)
The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. This course reinforces number concepts and computational skills with rational numbers, while introducing algebra concepts.

Course Name and Credit:	SE9967 GENERAL MATH 1	5 HRS.	9 J,K,W
	SE9968 GENERAL MATH 2	5 HRS.	9 J,K,W
	SE9969 GENERAL MATH 3	5 HRS.	9 J,K,W

Course Description: (Prerequisite: Special education placement and teacher recommendation)
The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. This course provides students with instruction and practice in basic number concepts and computational skills with rational numbers.

Course Name and Credit:	SE9970 IMPROVEMENT OF MATH SKILLS 1	5 HRS.	10-11 J,K,W
	SE9971 IMPROVEMENT OF MATH SKILLS 2	5 HRS.	10-11 J,K,W
	SE9972 IMPROVEMENT OF MATH SKILLS 3	5 HRS.	10-11 J,K,W

Course Description: (Prerequisites: Special education placement and teacher recommendation)
This course provides students with strategies to improve functional math skills, which will be applied in the Basic, Applied and Consumer math skills courses.

Course Name and Credit:	SE9973 BASIC MATH 1	5 HRS.	9-12 J,K,W
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Course Description: (Prerequisite: Special education placement and teacher recommendation)
The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. This course provides strategies to improve basic arithmetic computation, operation of a hand held calculator, and operation of a computer.

Course Name and Credit:	SE9975 APPLIED MATH 1	5 HRS.	11-12 J,K
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Course Description: (Prerequisite: Special education placement and teacher recommendation)
The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. This course uses computation skills and basic concepts to solve problems in everyday living situations.

Course Name and Credit:	SE9977 CONSUMER MATH 1	5 HRS.	11-12 J,K,W
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Course Description: (Prerequisite: Special education placement and teacher recommendation)
The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. This course develops competency in arithmetic skills as they relate to vocational and independent functioning in the home and community.

Course Name and Credit:	SE9980 ADAPTIVE PHYSICAL EDUCATION	2.5 HRS.	9-12 K
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Course Description: This course is a physical education for students with autism and/or severe and profound tendencies in combination with regular education peer helpers.

Subject: Special Education

Course Name and Credit:	SE9989 GLOBAL GEOGRAPHY	5 HRS.	9-12 J,W
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Course Description:	(Prerequisite: Special education placement and teacher recommendation) The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. This course helps students understand the physical and cultural features of places and their natural settings on the Earth. The emphasis of this course is on understanding the basic geographical topics of topography, climate, resources, population, and political division.
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Course Name and Credit:	SE9990 WORLD HISTORY 1	5 HRS.	10-12 J,K,W
	SE9991 WORLD HISTORY 2	5 HRS.	10-12 J,K,W
	SE9992 WORLD HISTORY 3	5 HRS.	10-12 J,K,W

Course Description:	(Prerequisite: Special education placement and teacher recommendation) The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. This course provides students with the study of early civilizations of the world, traces the development of economic, political, social, and intellectual traditions of the world's major cultures, and concludes with an investigation of contemporary international problems. This course familiarizes students with their cultural heritage and expands awareness of the similarities, differences, and interdependence of cultures of the world.
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Course Name and Credit:	SE9993 U.S. HISTORY 1	5 HRS.	10-12 J,K,W
	SE9994 U.S. HISTORY 2	5 HRS.	10-12 J,K,W
	SE9995 U.S. HISTORY 3	5 HRS.	10-12 J,K,W

Course Description:	(Prerequisite: Special education placement and teacher recommendation) The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. This course surveys United State history from 1870-Present. It places emphasis on the evolution of political and economic institutions. Additionally, the course studies the diversity of people as they attempt to interact in a dynamic, social-cultural environment.
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Course Name and Credit:	SE9996 U.S. GOVERNMENT 1	5 HRS.	10-12 J,K,W
	SE9997 U.S. GOVERNMENT 2	5 HRS.	10-12 J,K,W

Course Description:	(Prerequisite: Special education placement and teacher recommendation) The content of these courses stem from the district standards and benchmarks but may be at an adjusted complexity level. These courses present a study of the structure and function of our government as established by the Constitution. The emphasis of both courses is on the knowledge and behaviors necessary for effective citizenship within our world, nation, state, and community. Government I emphasizes the federal government. Government 2 concentrates on state law and local government.
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Course Name and Credit:	SE9999 APPLIED ECONOMICS	5 HRS.	12 J,K,W
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Course Description:	(Prerequisites: Special education placement and teacher recommendation) The content of this course stems from the district standards and benchmarks but may be at an adjusted complexity level. This course provides students with a basic understanding of how economics affects their daily lives. Emphasis is placed on application of economic principles and basic mathematics skills and the application of those principles and skills to make appropriate and practical consumer decisions.
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Subject: Supplemental Program

Course Name and Credit:	SU7710 WORK EXPERIENCE	2.5 HRS.	12	K,W
	SU7715 WORK EXPERIENCE	5 HRS.	12	K,W

Course Description:	(Work experience credit may not be applied toward early graduation) This course is for students who in the judgment of their parents, counselor, and work experience teacher, would benefit from holding a part time job and to help the student improve job habits, become a productive employee, and develop an awareness of various career opportunities.
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Course Name and Credit:	SU7720 SIGN LANGUAGE AND HEARING IMPAIRED	5 HRS.	9-12	W
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Course Description:	This course is for students who want to learn to communicate through sign language with hearing impaired individuals and to develop skills in receptive and expressive finger-spelling and sign language skills.
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Course Name and Credit:	SU7850 MEDIA ASSISTANT	2.5 HRS.	9-12	K,W
	SU7855 MEDIA ASSISTANT	5 HRS.	9-12	K,W

Course Description:	7850-(Prerequisite: Approval must be obtained from a media specialist) This course is for average or above average students and to make the student knowledgeable about the IMC program of service. After appropriate orientation and training the student will assist IMC patrons (S/U grade). 7855-(Prerequisites: SU7850 and/or the approval of a media specialist) This course is for average or above average students and to offer a program for the media assistant which is designed to make the student more knowledgeable about reference and research methods as well as IMC services and procedures. The course combines both content and laboratory experience (letter grade).
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Course Name and Credit:	SU8210 TEACHER ASSISTANT	2.5 HRS.	10-12	J,K,W
	SU8215 TEACHER ASSISTANT	5 HRS.	10-12	J,K,W

CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description:	(Prerequisite: Teacher recommendation) This course is for students interested in exploring teaching as a career and to allow students to work as teacher assistants.
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Course Name and Credit:	SU8320 COMMUNITY SERVICE EXPERIENCE	2.5 HRS.	9-12	J,K,W
	SU8325 COMMUNITY SERVICE EXPERIENCE	5 HRS.	9-12	J,K,W

CAREER CLUSTER: EDUCATION AND HUMAN SERVICES

Course Description:	This course is for students who in the judgment of their parents, counselor, and work experience teacher, would benefit from a community service experience and to allow students to experience the satisfaction of volunteer service, while learning to work with adults in a non-school setting.
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Course Name and Credit:	SU8330 EXPLORATORY CAREER EXPERIENCE	2.5 HRS.	10-12	J,K,W
	SU8335 EXPLORATORY CAREER EXPERIENCE	5 HRS.	10-12	J,K,W

Course Description:	(A limited number of programs have been approved as career-oriented experiences. Contact your counselor for more information.)
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Course Name and Credit:	SU8350 STUDENT COUNCIL/STUDENT GOVERNMENT	2.5 HRS.	9-12	J,K,W
	SU8351 STUDENT COUNCIL/STUDENT GOVERNMENT	5HRS.	9-12	J,K,W

Course Description:	Recommended for students who are interested in improving senior high school student government and to provide leadership training for interested and qualified students.
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Subject: Technology Education

Course Name and Credit: IT0960 ROBOTICS AND AUTOMATION 5 HRS. 9-12 J
CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description: Project Lead the Way
(Prerequisite: Algebra 1)
This is a one-trimester class that serves as an introduction to the rapid growing fields of robotics and automated manufacturing. Students will work in teams to complete modular units of instruction, learning the basic operation of CNC mills, lathes, routers, robotics and lasers. This class can be used as a prerequisite for further study in Computer Integrated Manufacturing.

Course Name and Credit: IT0965 PRINCIPLES OF ENGINEERING 1 5 HRS. 10-12 J,K
IT0966 PRINCIPLES OF ENGINEERING 2 5 HRS. 10-12 J,K
IT0967 PRINCIPLES OF ENGINEERING 3 5 HRS. 10-12 J,K

CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description: Project Lead the Way
Students explore technology systems and engineering process to find out how math, science, and technology help people.

Course Name and Credit: IT0968 INTRODUCTION TO ENGINEERING DESIGN 1 5 HRS. 9-12 J,K
IT0969 INTRODUCTION TO ENGINEERING DESIGN 2 5 HRS. 9-12 J,K
IT0970 INTRODUCTION TO ENGINEERING DESIGN 3 5 HRS. 9-12 J,K

CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description: Project Lead the Way
Using 3-D computer modeling software, students learn the design process, and solve design problems as they develop, analyze, and create product models.

Course Name and Credit: IT0974 COMPUTER INTEGRATED MANUFACTURING 1 5 HRS. 10-12 J
IT0975 COMPUTER INTEGRATED MANUFACTURING 2 5 HRS. 10-12 J
IT0976 COMPUTER INTEGRATED MANUFACTURING 3 5 HRS. 10-12 J

CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description: Project Lead the Way
Students learn concepts of robotics and automated manufacturing by creating three-dimensional designs with modeling software and producing models of their designs.

Course Name and Credit: IT1625 ADVANCED MANUFACTURING TECH 1 5 HRS. 10-12 J,K,M,W
IT1626 ADVANCED MANUFACTURING TECH 2 5 HRS. 10-12 J,K,M,W
IT1627 ADVANCED MANUFACTURING TECH 3 5 HRS. 10-12 J,K,M,W

CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description: Advanced Manufacturing Technology Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit)
Covers theory of operation of machining tools, metallurgy as it applies to manufacturing, identification and elementary heat treatment of steel. Safety is taught as it applies to each machine process. Proper terminology of the machinist trade is emphasized. Covers lab use of basic measuring tools, layout and inspection tools, and bench work. Safe operation of machine tools and heat treating equipment is taught. Emphasis is on following blueprints and holding tolerances through the use of a variety of process to produce a product.

Subject: Technology Education

Course Name	IT4021 AUTO TECH 1	5 HRS.	10-12	J,K,M,W
and Credit:	IT4022 AUTO TECH 2	5 HRS.	10-12	J,K,M,W
	IT4023 AUTO TECH 3	5 HRS.	10-12	J,K,M,W

CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description:

Automotive Technology Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit)
 Provides the beginning apprentice technician with an introductory overview of automotive servicing from a maintenance and replacement standpoint. Classroom and hands-on activities emphasize routine maintenance procedures in the care of tires, batteries, lighting, belts, hoses, filters and cooling systems. Presents career information on career pathways, employers, goal setting, skills inventory, student club information and personal plan. Covers basic algebra as it relates to fundamental equations, ratios, and proportion, and percentages. Covers applied geometry as it relates to finding length, area, volume, etc. Also covers basic right angle trigonometry and gives more practice in solving stated problems.

Course Name	IT4024 AUTO TECH 4	5 HRS.	10-12	J,K,M,W
and Credit:	IT4025 AUTO TECH 5	5 HRS.	10-12	J,K,M,W
	IT4026 AUTO TECH 6	5 HRS.	10-12	J,K,M,W

CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description:

Automotive Technology Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit)
 Focuses on brake system theory, diagnosis and repair of drum brakes. Lab exercises reinforce lecture theories in a practical, hands-on setting. Introduces students to basic fundamental electrical and electronics related to the automobile. Topics covered include voltage, amperage, resistance, Ohm's Law and practical application. Series, parallel and series-parallel circuits are also studied.

Course Name	IT4031 COMPUTER-AIDED DRAFTING (CAD) - ARCHITECTURAL 1	5 HRS.	9-12	J,K,W
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CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description:

(Prerequisite: IT4084 Introduction to Computer-Aided Drafting (CAD))
 The course includes the fundamentals of architectural drafting design and the use of materials and equipment with the study of terminology and construction methods. It also includes the drawing of floor and basement plans and a door and window schedule.

Course Name	IT4037 ADVANCED ARCHITECTURAL DRAFTING	5 HRS.	9-12	J,K,W
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CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description:

(Prerequisite: IT4031 Architectural Drafting 3) (May be repeated for credit)
 This course includes the drawing of houses or commercial buildings. Students produce a set of working drawings that include floor plan, elevation, electrical, plumbing, heating and framing details.

Course Name	IT4084 INTRODUCTION TO COMPUTER-AIDED DRAFTING (CAD)	5 HRS.	9-12	J,K,W
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CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description:

This course includes a general overview of CAD fundamentals. Architectural and Mechanical CAD will both be introduced in this course. Output is made to printers and plotters.
 Includes system operations, entering coordinate data, line types, object rotation, manipulation and editing, dimensions and tolerances, multi-view drawings, parameter settings, grouping, copying, rotating, mirroring levels, sectioning, symbol libraries and 3D modeling.

Subject: Technology Education

Course Name and Credit:	IT4131 COMPUTER-AIDED DRAFTING (CAD) - MECHANICAL 1	5 HRS.	9-12	K,W
	IT4132 COMPUTER-AIDED DRAFTING (CAD) - MECHANICAL 2	5 HRS.	9-12	K,W
	IT4133 COMPUTER-AIDED DRAFTING (CAD) - MECHANICAL 3	5 HRS.	9-12	K,W

CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description:

Mechanical 1 (Prerequisite: IT4084 Introduction to Computer-Aided Drafting (CAD))
This course will acquaint the student with principles of shape and size description as practiced in the machine industries. Units studied include use of drafting equipment and supplies, lettering, sketching, pictorials, orthographic projection, dimensioning, and drawing reproduction.

Mechanical 2 (Prerequisite: IT4131 Computer-Aided Drafting (CAD) - Mechanical 1)
This course includes the drawing of full, half, revolved, removed, and broken out sections. Auxiliary projection is also studied with drawings made through single auxiliary projection.

Mechanical 3 (Prerequisite: IT4132 Computer-Aided Drafting (CAD) - Mechanical 2)
This course covers the techniques of drafting threaded fasteners (bolt, nuts, screws), rivets, welds, keys and pins used by the machine industries. Assembly drawings will be made showing the parts of the machines in their proper working relationship.

Course Name and Credit:	IT4143 AUTO/TRANSPORTATION TECHNOLOGY 1	5 HRS.	9-12	J,K
	IT4144 AUTO/TRANSPORTATION TECHNOLOGY 2	5 HRS.	9-12	J,K

CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description:

Auto/Transportation Technology 1
This course includes the theory of operation, design and maintenance of the automobile. Also includes safety, tools equipment and systems such as cooling, lubrication and battery/ignition.

Auto/Transportation Technology 2 (Prerequisite: IT4143 Auto/Transportation Technology 1)
This course includes emission controls, charging systems, starting systems, air conditioning, brakes, suspension, wheels, tires, steering and alignment and drive trains.

Course Name and Credit:	IT4190 AUTO COLLISION REPAIR 1	5 HRS.	12	J,K,M,W
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CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description:

Automotive Collision Technology Academy (Dual credit - Provides both H.S. and Kirkwood Community College credit)
Covers general body construction along with body alignment and general metal techniques with emphasis on use of body fill material. Provides an overview of glass and trim replacement and also the relationship between body and frame components. Introduces spot matching techniques and spraying complete autos.

Course Name and Credit:	IT4201 WOOD TECHNOLOGY 1	5 HRS.	9-12	J,K,W
	IT4202 WOOD TECHNOLOGY 2	5 HRS.	9-12	J,K,W
	IT4203 WOOD TECHNOLOGY 3	5 HRS.	9-12	J,K,W

CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description:

Wood Technology 1 - In this course the fundamentals of woodworking are taught with emphasis on the correct and safe use of tools and machines. Students will learn and use the processes of planning, drawing and constructing basic wood products.

Wood Technology 2 - (Prerequisite: IT4201 Wood Technology 1. 9th grade students may enroll with permission of instructor)

Wood Technology 3 - (Prerequisite: IT4202 Wood Technology 2. 9th grade students may enroll with permission of instructor)

Subject: Technology Education

Course Name and Credit: IT4210 ADVANCED WOOD TECHNOLOGY 5 HRS. 10-12 J,K,W
 CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description: (Prerequisites: IT4203 Wood Technology 3) (May be repeated for credit)
 Students will develop technical knowledge and skills as they design and build products. Emphasis is placed on a larger variety of tools and machines and more complex applications.

Course Name and Credit: IT4260 CONSTRUCTION TECHNOLOGY 1 5 HRS. 9-12 J,K,W
 IT4261 CONSTRUCTION TECHNOLOGY 2 5 HRS. 9-12 J,K,W
 CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description: Construction Technology 1
 This course explores the fundamentals of the construction industry from the architect's drawings and surveying building sites to the finishing procedures on a structure. Masonry, carpentry, plumbing, electrical, and heating/cooling will be studied and students will participate in construction projects and activities.

Construction Technology 2 (Prerequisite: IT4260 Construction Tech. 1)
 This course explores the more detailed concepts of the construction industry from the architect's drawings and surveying building sites to the finishing procedures on a structure. Masonry, carpentry, plumbing, electrical, and heating/cooling will be studied and students will participate in construction projects and activities. Attention is also given to skyscrapers, bridges and highways.

Course Name and Credit: IT4340 BUILDING TRADES 1 10 HRS. 12 J,K,M,W
 IT4341 BUILDING TRADES 2 10 HRS. 12 J,K,M,W
 IT4342 BUILDING TRADES 3 10 HRS. 12 J,K,M,W
 CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description: (Prerequisites: There are no prerequisites, however, courses in construction, woodworking and drafting are very useful and may be a factor in the final selection of students for the program. Students must provide transportation to the site.)
 In this course students participate in the construction of a full size house on non-school site. Training and actual construction experiences are offered in most of the major areas of residential construction.

Course Name and Credit: IT4740 ELECTRIC CAR 1 5 HRS. 9-12 K
 IT4741 ELECTRIC CAR 2 5 HRS. 9-12 K
 IT4742 ELECTRIC CAR 3 5 HRS. 9-12 K
 CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Course Description: Recommended for: students (9-12) who want a very real opportunity to apply their career interest in a real industry.

Purpose of the Course: To offer students an opportunity to work in a real business. The course offers very high level challenges for students in design, engineering, promotion, publicity, accounting and production. Development of skills in goal setting and completion, reliability, and teamwork are a big part of this experience.

Content: Much of the content of this course is the application of skills learned in other courses particularly math, science, language arts, tech education, or accounting. Students develop a team, set goals, and research solutions for their part of the company. The overall goal is to promote, develop, build, display, and compete with small one-passenger electric vehicles.

Course Name and Credit: IT4882 TECHNOLOGY EDUCATION ASSISTANT 2.5 HRS. 9-12 J,K,W
 IT4885 TECHNOLOGY EDUCATION ASSISTANT 5 HRS. 9-12 J,K,W

Course Description: (Prerequisite: 15 hours of Technology Education courses or approval of the sponsoring teacher)
 This course provides opportunities for students to assist the Technology Education staff and help fellow students in an assigned area.

Subject: World Languages

Course Name and Credit:	FL3061 FRENCH 1	5 HRS.	9-12	J,K,W
	FL3062 FRENCH 1	5 HRS.	9-12	J,K,W
	FL3063 FRENCH 1	5 HRS.	9-12	J,K,W

Course Description: (These three trimester courses must be taken in sequence or with teacher approval)
 These courses are for students who want to begin world language study and to enable them to function effectively in more than one culture through a basic knowledge of the language, the people, and the French-speaking world.

Course Name and Credit:	FL3064 FRENCH 2	5 HRS.	10-12	J,K,W
	FL3065 FRENCH 2	5 HRS.	10-12	J,K,W
	FL3066 FRENCH 2	5 HRS.	10-12	J,K,W

Course Description: (Prerequisite: French 1. Must be taken in sequence or with teacher approval)
 These courses are for students who wish to continue their world language study and to refine and expand the skills learned in the beginning courses; to prepare the students for more advanced world language study.

Course Name and Credit:	FL3070 FRENCH 3	5 HRS.	11-12	J,K,W
	FL3075 FRENCH 3	5 HRS.	11-12	J,K,W
	FL3080 FRENCH 3	5 HRS.	11-12	J,K,W
	FL3085 FRENCH 4	5 HRS.	12	J,K,W
	FL3090 FRENCH 4	5 HRS.	12	J,K,W
	FL3095 FRENCH 4	5 HRS.	12	J,K,W

Course Description: (Prerequisite: French 1, French 2, or the appropriate preceding course or with teacher approval)
 These courses are for students who wish to pursue their world language study with greater intensity and to continue the language refinement process, enabling the student to function with greater facility and effectiveness in the French culture and language.

Course Name and Credit:	FL3101 GERMAN 1	5 HRS.	9-12	K,W
	FL3102 GERMAN 1	5 HRS.	9-12	K,W
	FL3103 GERMAN 1	5 HRS.	9-12	K,W

Course Description: (These three trimester courses must be taken in sequence or with teacher approval)
 These courses are for students who want to begin world language study and to enable them to function effectively in more than one culture through a basic knowledge of the language, the people, and the cultures of German-speaking countries.

Course Name and Credit:	FL3104 GERMAN 2	5 HRS.	10-12	K,W
	FL3105 GERMAN 2	5 HRS.	10-12	K,W
	FL3106 GERMAN 2	5 HRS.	10-12	K,W

Course Description: (Prerequisite: German 1 must be taken in sequence or with teacher approval)
 These courses are for students who wish to continue their world language study and to refine and expand the skills learned in the beginning courses; to prepare them for more advanced world language study.

Course Name and Credit:	FL3110 GERMAN 3	5 HRS.	11-12	K,W
	FL3115 GERMAN 3	5 HRS.	11-12	K,W
	FL3120 GERMAN 3	5 HRS.	11-12	K,W
	FL3125 GERMAN 4	5 HRS.	12	K,W
	FL3130 GERMAN 4	5 HRS.	12	K,W
	FL3135 GERMAN 4	5 HRS.	12	K,W

Course Description: (Prerequisite: German 1 and German 2 or the appropriate preceding course or with teacher approval)
 These courses are for students who wish to pursue their world language study with greater intensity and to continue the language refinement process, enabling them to function with greater facility and effectiveness in the German culture and language.

Course Name and Credit:	FL3140 JAPANESE 1	5 HRS.	9-12	J,K,W
	FL3141 JAPANESE 1	5 HRS.	9-12	J,K,W
	FL3142 JAPANESE 1	5 HRS.	9-12	J,K,W

Course Description: (These three trimester courses must be taken in sequence or with teacher approval)
 These courses are for students who want to begin world language study and to enable them to function effectively in more than one culture through a basic knowledge of the language, the people, and the Japanese-speaking world.

Subject: World Languages

Course Name	FL3143 JAPANESE 2	5 HRS.	10-12 K,W
and Credit:	FL3144 JAPANESE 2	5 HRS.	10-12 K,W
	FL3145 JAPANESE 2	5 HRS.	10-12 K,W

Course Description: (Prerequisite: Japanese 1 must be taken in sequence or with teacher approval)
 These courses are for students who wish to continue their world language study and to refine and expand the skills learned in the beginning courses; to prepare them for more advanced world language study.

Course Name	FL3146 JAPANESE 3	5 HRS.	11-12 K,W
and Credit:	FL3147 JAPANESE 3	5 HRS.	11-12 K,W
	FL3148 JAPANESE 3	5 HRS.	11-12 K,W
	FL3230 JAPANESE 4	5 HRS.	12 K,W
	FL3231 JAPANESE 4	5 HRS.	12 K,W
	FL3232 JAPANESE 4	5 HRS.	12 K,W

Course Description: (Prerequisite: Japanese 1 and Japanese 2 or the appropriate preceding course or with teacher approval)
 These courses are for students who wish to pursue their world language study with greater intensity and to continue the language refinement process, enabling them to function with greater facility and effectiveness in the Japanese culture and language.

Course Name	FL3161 SPANISH 1	5 HRS.	9-12 J,K,W
and Credit:	FL3162 SPANISH 1	5 HRS.	9-12 J,K,W
	FL3163 SPANISH 1	5 HRS.	9-12 J,K,W

Course Description: (These three trimester courses must be taken in sequence or with teacher approval)
 These courses are for students who want to begin world language study and to enable them to function effectively in more than one culture through a basic knowledge of the language, the people, and the Spanish-speaking world.

Course Name	FL3164 SPANISH 2	5 HRS.	10-12 J,K,W
and Credit:	FL3165 SPANISH 2	5 HRS.	10-12 J,K,W
	FL3166 SPANISH 2	5 HRS.	10-12 J,K,W

Course Description: (Prerequisite: Spanish 1 must be taken in sequence or with teacher approval)
 These courses are for students who wish to continue their world language study and to refine and expand the skills learned in the beginning courses; to prepare them for more advanced world language study.

Course Name	FL3170 SPANISH 3	5 HRS.	11-12 J,K,W
and Credit:	FL3175 SPANISH 3	5 HRS.	11-12 J,K,W
	FL3180 SPANISH 3	5 HRS.	11-12 J,K,W
	FL3185 SPANISH 4	5 HRS.	12 J,K,W
	FL3190 SPANISH 4	5 HRS.	12 J,K,W
	FL3195 SPANISH 4	5 HRS.	12 J,K,W

Course Description: (Prerequisite: Spanish 1 and Spanish 2 or the appropriate preceding course or with teacher approval)
 These courses are for students who wish to pursue their world language study with greater intensity and to continue the language refinement process, enabling them to function with greater facility and effectiveness in the Spanish culture and language.

Course Name	FL3281 CHINESE 1	5 HRS.	9-12 K
and Credit:	FL3282 CHINESE 1	5 HRS.	9-12 K
	FL3283 CHINESE 1	5 HRS.	9-12 K

Course Description: (These three trimester courses must be taken in sequence or with teacher approval)
 These courses are for students who want to begin world language study and to enable them to function effectively in more than one culture through a basic knowledge of the language, the people, and the Chinese-speaking world.

Course Name	FL3310 ARABIC 1	5 HRS.	9-12 W
and Credit:	FL3311 ARABIC 1	5 HRS.	9-12 W
	FL3312 ARABIC 1	5 HRS.	9-12 W

Course Description: (These three trimester courses must be taken in sequence or with teacher approval)
 These courses are for students who want to begin world language study and to enable them to function effectively in more than one culture through a basic knowledge of the language, the people, and the cultures of Arabic-speaking countries.

Subject: World Languages

Course Name	FL3313 ARABIC 2	5 HRS.	9-12 W
and Credit:	FL3314 ARABIC 2	5 HRS.	9-12 W
	FL3315 ARABIC 2	5 HRS.	9-12 W

Course Description: These courses are for students who wish to continue their world language study and to retain and expand the skills learned in the beginning courses; to prepare them for more advanced world language study.

Course Name	FL3401P A.P. FRENCH	5 HRS.	12 J,K,W
and Credit:	FL3402P A.P. FRENCH	5 HRS.	12 J,K,W
	FL3403P A.P. FRENCH	5 HRS.	12 J,K,W

Course Description: (Prerequisite: French 1, French 2, and French 3 or with teacher approval)
 This college-level class is designed to prepare students for the Advanced Placement Exam in French Language.
 Students enrolling in A.P. French should already have a good command of French grammar and vocabulary. This course requires more extensive, in-depth training in listening, reading, speaking and writing than the fourth year course in French.

Course Name	FL3404P A.P. GERMAN	5 HRS.	12 K,W
and Credit:	FL3405P A.P. GERMAN	5 HRS.	12 K,W
	FL3406P A.P. GERMAN	5 HRS.	12 K,W

Course Description: (Prerequisite: German 1, German 2, and German 3 or with teacher approval)
 This college-level class is designed to prepare students for the Advanced Placement Exam in German Language.
 Students enrolling in A.P. German should already have a good command of German grammar and vocabulary. This course requires more extensive, in-depth training in listening, reading, speaking and writing than the fourth year course in German.

Course Name	FL3407P A.P. SPANISH	5 HRS.	12 J,K,W
and Credit:	FL3408P A.P. SPANISH	5 HRS.	12 J,K,W
	FL3409P A.P. SPANISH	5 HRS.	12 J,K,W

Course Description: (Prerequisite: Spanish 1, Spanish 2, and Spanish 3 or with teacher approval)
 This college-level class is designed to prepare students for the Advanced Placement Exam in Spanish Language.
 Students enrolling in A.P. Spanish should already have a good command of Spanish grammar and vocabulary. This course requires more extensive, in-depth training in listening, reading, speaking and writing than the fourth year course in Spanish.

Course Name	FL3430P A.P. JAPANESE	5 HRS.	12 J,K,W
and Credit:	FL3431P A.P. JAPANESE	5 HRS.	12 J,K,W
	FL3432P A.P. JAPANESE	5 HRS.	12 J,K,W

Course Description: (Prerequisite: Japanese 1, Japanese 2, and Japanese 3 or with teacher approval)
 This college-level class is designed to prepare students for the Advanced Placement Exam in Japanese Language (first exam: May 2007).
 Students enrolling in A.P. Japanese should already have a good command of Japanese grammar and vocabulary. This course requires more extensive, in-depth training in listening, reading, speaking and writing than the fourth year course in Japanese.