

INTRODUCTION

The course book was prepared to inform students and parents of the course offerings of the Benton Community High School. It is organized to provide information to assist in selection and planning of high school courses.

Staff will assist students with their course selections based on student needs, interests, and career plans. Students are encouraged to discuss their course selections with their parents. Students planning on attending post high school training should take courses that meet entrance requirements for the training they would like to obtain. Students who plan to attend one of Iowa's three regents universities MUST meet the requirements as outlined from the regents. This information can be obtained from the School Counseling Office.

The Benton Community High School Course Description Guide lists all courses that are offered to students at Benton. Actual course delivery during a given year is determined by student enrollment and priority staffing assignments. An enrollment of 15 students is generally required in elective courses unless program delivery is mandated by the Iowa Department of Education requirements. The Benton Community administration and staff are committed to providing a quality educational program to our students.

Parents who have questions about registration are encouraged to call 228-8701 and ask for the school counseling office.

MULTICULTURAL, NON SEXIST POLICY STATEMENT

Children enrolled in the school district shall have an equal opportunity for a quality public school education without discrimination, regardless of their race, creed, sex, marital status, national origin, ability or disability.

The educational program shall be free of such discrimination and provide equal opportunity for the participants. The educational program shall foster knowledge of and respect and appreciation for, the historical and contemporary contributions of diverse cultural groups, as well as men and women, to society. It shall also reflect the wide variety of roles open to both men and women and provide equal opportunity to both sexes.

Inquiries regarding compliance with equal education opportunity shall be directed to the compliance office by writing to the Title IX, Title VI and Section 504 Compliance Officer, Benton Community School District, PO Box 70, Van Horne, Iowa 52346; or by telephone 319-228-8701; or by writing to the Director of the Region VII Office of Civil Rights, Department of Education, Kansas City, Missouri. Further information and copies of the procedures for filing a grievance are available in the central administrative office and the administrative office in each attendance center.

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EDUCATION PLANNING

Students must earn a total of 17.5 Carnegie Units (35 Semester classes) in ten (10) prescribed areas of study. This requirement provides every student with a basic core of general education and meets all criteria established by the State Code of Iowa and the Department of Education. In addition, students must earn 10.5 Carnegie Units (21 Semester classes) in elective courses.

Students are encouraged to plan carefully and to enroll in those courses which best meet their individual needs and interests. Expanded course descriptions are available from the teachers to help students who need more information about specific courses.

Students planning to continue their training beyond high school should understand that specific tests may be required for college admission, scholarships, placement, or admission to vocational or technical schools. It is the responsibility of the student to make the necessary arrangements for these tests. Information on these tests is available in the guidance office. Students are encouraged to discuss individual situations with their counselor.

Students may enroll in a special project course after submitting a study outline and obtaining the permission of the high school principal, counselor and a supervising teacher. This special project cannot be used to take the place of a scheduled class or course.

EARLY GRADUATION

An early graduate is one who completes all requirements for graduation in less than four (4) years of high school attendance. Students planning to graduate early should consult the School Counseling Office for a complete list of conditions and requirements.

POSTSECONDARY ENROLLMENT OPTIONS (PSEO)

Students may enroll in college courses under the following provisions:

- Post-secondary enrollment option is intended for 11th and 12th grade students as part of their four-year plan and 9th and 10th grade students identified as talented and gifted.
- A course chosen under this option must not be a comparable course to one offered in the district and must be taken during the regular school year.
- The chosen course may not replace graduation requirements.
- The school district will pay up to \$250 for related tuition and related course fees.
- A student must complete the course with a passing grade in order for the school district to pay for the course.

College Level Opportunities Available at BCHS

There are several methods by which Benton Community High School Students are able to earn college credit while meeting Benton Community High School graduation standards. These college level classes taught on Benton’s campus or at a partner college provide juniors and seniors with a wonderful opportunity to learn about different career possibilities, earn valuable college credit to transfer to a school, or take classes that will allow the student to start at a higher level at a partner school. ***All students must demonstrate proficiency on the Iowa Tests of Educational Development (ITEDs) or meet alternative criteria as established by the counseling and administrative staff in order to enroll in these courses.***

- **Concurrent Credit-** Concurrent credit classes allow students to earn high school and college credits while taking classes at BCHS. These classes are college-level classes taught at Benton Community High School and are transcribed by the partner school (usually Kirkwood Community College). Class credits earned for these classes **may** be able to transfer to a traditional 2 or 4-year public or private college or university. Students are required to meet certain admission standards for these classes. Additionally, students will face financial penalties for failing a class and will be bound by the partner school’s attendance, grading, and change procedures.
- **Articulated-** Articulated classes allow students to advance into higher-level classes upon entrance to the partner school. Students are eligible to receive college credit for these classes, taken at Benton Community High School, **IF** the student passes the class (with a B or higher), meets certain competency requirements and enrolls at the partner school within one year of graduation. The credits may not transfer for all available programs and will not transfer to other institutions.
- **Career Edge Academy-** Career Edge Academy classes offer students the opportunity to take a series of classes associated with a specific career prep program while in high school. These classes may afford students opportunities to earn articulation credits or transferable college credits in high demand fields.
- **Other College Level Classes-** In addition to the classes offered here or through sharing programs, students have an opportunity to take college courses at the local colleges. Interested students must meet with Mr. Cretin and complete the appropriate paperwork by the required deadlines. Students must be full time students at BCHS and have taken all available classes at Benton in the area in which they want to study in order to enroll in the program. Student, counselor, and administration will all work together to schedule classes at the most appropriate times. Students will receive dual credit under the Post Secondary Enrollment Options (PSEO) Act, receiving one high school credit and three college credits for each course in which they are enrolled and pass. BCHS will provide the \$250.00 course allotment that covers tuition. If a college course is not passed, the student/parent is responsible for payment of the class.

COLLEGE ADMISSIONS RECOMMENDATIONS

Students interested in attending a 4-year college or university should carefully consider their course choices. Many schools have admissions requirements that must be met. The guide below is general recommendations based upon the admission criteria for the Regents institutions in Iowa (University of Iowa, Iowa State and UNI). These recommendations represent a general college prep curriculum and students are encouraged to review individual requirements for schools of interest.

Language Arts/English	4 years of English Courses- 1 per year of high school
Math	3+ years of Math Courses- At least through Algebra II; Upper level math courses and math all 4 years are highly encouraged/recommended
Science	3+ years of Science Courses including at least 2 of the 3: Biology, Chemistry and Physics
Social Studies	3 years of Social Studies Courses
Foreign Language	2+ years of a Single Foreign Language. Additional years may count towards college graduation requirements or allow the student to start at a higher language level.

GRADUATION REQUIREMENTS

The mission statement of the Benton Community School District is
 “Quality Education For A Lifetime of Learning”.

English	4.0 Credits	8 Semester Classes
Government	0.5 Credits	1 Semester Class
Global	0.5 Credits	1 Semester Class
US History	1.0 Credits	2 Semester Classes
World History	1.0 Credits	2 Semester Classes
Math	3.0 Credits	6 Semester Classes
Science	3.0 Credits	6 Semester Classes
Cluster	2.0 Credits	4 Semester Classes
Physical Education	2.0 Credits	4 Semester Classes
Computer Tech*	0.5 Credits	1 Semester Class
Personal Finance**	0.5 Credits	1 Semester Class
Electives	10.0 Credits	20 Semester Classes

Total	28.0 Credits	56 Semester Classes
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*Keyboarding Basics may be substituted for this requirement if the student is recommended to do so.

**For the 2019 graduating class and after.

1 credit equals 2 Semesters of class

CLUSTER CLASSES

TECHNOLOGY

Computer Tech*
 Computer Apps I
 Computer Apps II
 Introduction to Computers
 Web Programming
 Intro to Drafting
 CAD/CAM
 Advanced CAD/CAM
 Intro to Engineering Design
 Principles of Engineering
 Digital Electronics
 Biotechnical Engineering
 Civil Engineering

PERSONAL/SOCIAL

Preventative Health
 Physical Health & Safety
 Work & Family Relationships
 Child Development I & II
 Teen Issues
 Self Development
 Health Science Academy
 Literacy Lab

SCHOOL-TO-WORK

Service Learning
 School-to-Work Internship
 Ag Ed V
 PSEO options

*Computer Tech meets a cluster requirement if the student takes Keyboarding Basics prior to taking Computer Technology. If Computer Tech is the first computer class in high school, it first meets the Technology requirement.

DROP/ADD DEADLINES

Course changes can occur prior to the start of a quarter through the 2nd day of the quarter. After this deadline, no course changes will be allowed except for the following reasons:

1. Clerical error
2. Necessary to fulfill a graduation requirement
3. Improper placement as determined by the teacher and counselor.

Students cannot add or drop a class after the start of a term without the approval of the instructor and counselor.

GRADING

A student's grade in each course is determined by combined results of examinations and fulfillment of all other course requirements. The quality of the work is expressed by the following marks:

A+	4.33
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
D-	0.67
U or F	0.00

TO RECEIVE CREDIT FOR A COURSE FAILED, A STUDENT MUST:

1. Repeat the course or
2. Take the course from an agency approved by the school.

DEPARTMENTS

The courses within the course book are organized according to departments. Departments are listed in alphabetical order. To locate a specific course title, please refer to the "Alphabetical Listing of Courses." In addition, students are able to take Correspondence Courses through Kirkwood. A listing of those courses can be found at this website: <http://www.kirkwood.edu/site/index.php?p=29516>

Students must receive permission from the High School Counselor and High School Principal to take a course via correspondence from Kirkwood. Contact the High School Principal and/or High School Counselor with further questions.

AGRICULTURAL EDUCATION

Agriculture is our nation's largest employer. With the growth of food and energy production, the requirement for agricultural work is greater than ever. Many of these jobs require a college degree in agriculture, something for which high school agriculture provides essential preparation.

The Benton Agricultural Education (Ag Ed) department offers a sequence of courses that will prepare students for employment in agriculture and/or further education in an agricultural field. Students learn to appreciate the diversity of agriculture; practice technical skills used in agriculture, and develop leadership abilities that will assist them throughout life. Agriculture Education I is the prerequisite in the advancement in the Agriculture Program.

Membership in the Benton FFA Chapter and completion of one or more Supervised Agricultural Experience (SAE) projects outside of class are considered integral parts of all courses offered in the Agricultural Education Department. FFA and SAE are intra-curricular (not extracurricular) activities and are an extension of the learning that takes place in the classroom. To gain the maximum benefit from the Ag Ed sequence of courses, students are encouraged to take one agriculture class each year of high school, rather than condensing the program into a shorter period of time.

Agriculture Courses

0221 **AG ED I: INTRO TO AGRISCIENCE- CASE AFNR**
9-10-11-12 1 credit unit (2 Semesters)

The major purpose of the *Introduction to Agriculture, Food, and Natural Resources* (AFNR) course is to introduce students to the world of agriculture, and the pathways they may pursue. Students participating in the *Introduction to AFNR* course will experience exciting “hands-on” activities, projects, and problems. While surveying the opportunities available in agriculture and natural resources, students will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning. In addition, students will understand specific connections between their lessons and Supervised Agricultural Experience and FFA components that are important for the development of an informed agricultural education student. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community.

0218 **PRINCIPLES OF AGRICULTURAL SCIENCE- ANIMAL
(CASE ASA)**
10-11-12 1 credit unit (2 Semesters)
Prerequisite: Introduction to Agriscience

The Principles of Agricultural Science – Animal course is intended to serve as one of two foundational courses within the CASE™ sequence. The course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in animal science so that students may continue through a sequence of courses through high school. Students will explore hands-on projects and activities to learn the characteristics of animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers, or industry personnel face in their respective careers.

In addition, students will understand specific connections between the Animal Science lessons and Supervised Agricultural Experience, FFA, and LifeKnowledge® components that are important for the development of an informed agricultural education student. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community.

0219 **AG ED III: PLANT SCIENCE**
11-12 1 credit unit (2 Semesters)
Prerequisite: Ag Ed II or Instructor Approval

In the first term of this class, students will gain experience and knowledge in all aspects of plant growth and development, biotechnology, sexual and asexual propagation techniques, and plant breeding. The second term focuses on the various phases of the horticulture industry, and makes extensive use of the greenhouse laboratory. Business procedures and customer service techniques required in the industry are also practiced through greenhouse management.

UNITS COVERED

The Role of Plant Science in Agriculture & Society	Land Classification & Use
Sustainable Agriculture & Precision Farming	Principles of Floral Design
Record Keeping	Plant Identification
Plant Reproduction & Growth (Including Propagation)	Greenhouse Management & Production
Soil Science	Landscape Design
Renewable Energy	

0226 **AG ED IV: AGRIBUSINESS LEADERSHIP**
12 1 credit unit (2 Semesters)
Prerequisite: Ag Ed III or Instructor Approval

A course designed for upper level students interested in the many opportunities in the largest occupational area of the agricultural industry. Learning activities will concentrate on communications, leadership, presentation and sales strategies, advertising, and searching for a career. Simulation, problem solving, group activities, role-playing, and individual presentations will be used extensively in this course.

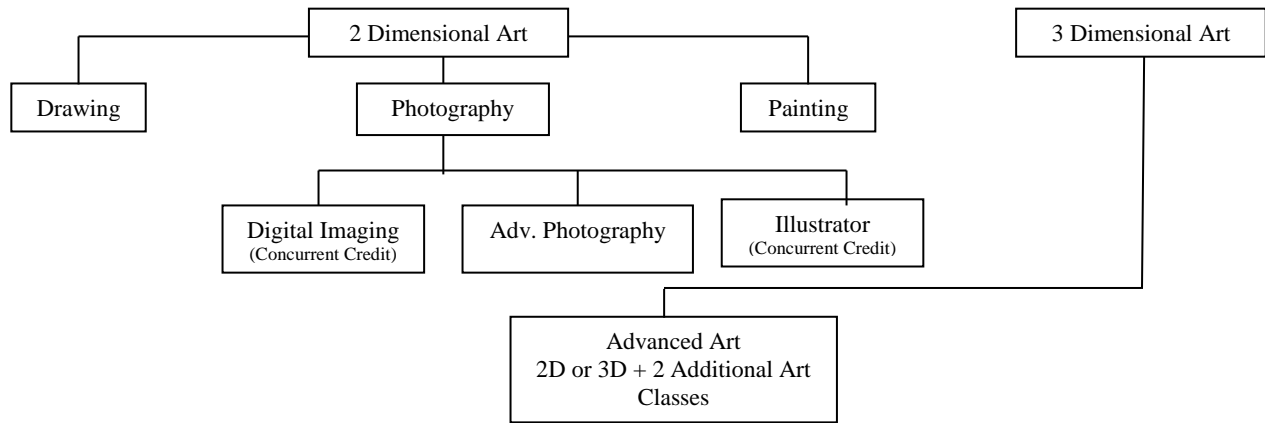
UNITS COVERED

Agricultural Journalism	Agricultural Salesmanship
Presentation Strategies for Agricultural Audiences	Job Seeking Skills
Advanced Parliamentary Procedure	Individual Career Development Events
Ag Business Management	Individualized Final Projects

0228 **AG ED V: AG OCCUPATIONS EMPLOYMENT**
11-12 1 credit unit (2 Semesters)
Prerequisite: Three terms of Ag classes & Instructor approval

Students will be employed on an agricultural work site to gain real-life employment experience. The course includes interpersonal skills, employer/employee evaluations, job seeking skills, SAE Records, goal setting, weekly work logs and teacher observation. This course is self-guided. It is the student's responsibility to get work completed in a timely manner.

ART DEPARTMENT
Suggested Art Course Sequences



Art Courses

0257 **2-DIMENSIONAL ART**
9-10-11-12 ½ credit unit (1 Semester)

This is a hands-on project oriented class. Included in the course will be beginning experiences in conceiving ideas and using appropriate 2-D materials to convey artistic expressions. Focus areas will be drawing, acrylic painting, watercolor painting, mixed media, printmaking, photography, design, art history, introduction to digital imaging and art competition.

0253 **3-DIMENSIONAL ART**
9-10-11-12 ½ credit unit (1 Semester)

This is a hands-on project oriented class. Included in the course will be beginning experiences in conceiving ideas and using appropriate 3-D materials to convey artistic expressions. Focus areas will be hand built utilitarian/non-utilitarian ceramic projects (i.e. coil slab, sculpture, etc.), wheel throwing, surface decoration, glazing, with a smaller focus on several other sculpture processes including plaster and wire work, and art competition.

0233 **PHOTOGRAPHY**
10-11-12 ½ credit unit (1 Semester)

Prerequisite: 2-Dimensional Art

The Photography course introduces students to digital color photography. The course presents an overview of the history of photography, basic care, handling, and functions of digital 35 mm. SLR cameras, principles of lighting and composition, and digital processing techniques to plan and produce photographic compositions that demonstrate understanding of light, composition, color, and visual impact. Course assignments, assessment, and activities will support learning about the fundamentals of photography, elements of composition, basic Photo Shop functions, history of photography and photographers, photo-essays and photo-collage. Students will individually submit a final photo portfolio.

0234 **ADVANCED PHOTOGRAPHY**
11-12 ½ credit unit (1 Semester)
Prerequisite: 2-Dimensional Art & Photography

Advanced Photography is designed to present an in-depth overview of the fundamentals of digital and 35mm photography, lighting, composition, photojournalism, and digital processing techniques. Course assignments, assessments, and activities will support the student's study of digital imaging software and processes, elements of composition, camera comparisons, natural and artificial lighting, theme based projects, photography careers and professional applications, history of photographers and photography research presentation, non-camera photo techniques using scanners, and advanced color, and black and white digital photography processes and techniques. Students will present a collaborative group exhibit of their work, and individually submit a digital and hard copy photo portfolio.

0236 **DRAWING**
10-11-12 ½ credit unit (1 Semester)
Prerequisite: 2-Dimensional Art

Throughout this course the students will explore a variety of art media - including pencil, colored pencil, pen and ink, pastels, marker, and charcoal. Subject matter will include elements of design and composition, portraits, figures, still-lifes, landscapes, design, perspective and sketchbook assignments. Students will participate in art competitions and the Benton Art Show.

0237 **PAINTING**
10-11-12 ½ credit unit (1 Semester)
Prerequisite: 2-Dimensional Art; Drawing Recommended

This course will provide students an opportunity to explore many styles of painting. Design, composition and color will be emphasized. The entire process from constructing and stretching the canvas to painting and framing will be taught. Acrylics, watercolors and tempera will be used throughout the course. Art history and critiques will also be included in this course. Students will participate in art competitions and the Benton Art Show.

****GRA-140** **DIGITAL IMAGING** **Concurrent College Credit- 3.0 credits**
11-12 ½ credit unit (1 Semester) 10th Grade can take w/ Instructor and GO approval
Prerequisite: 2-Dimensional Art & Computer Tech

Digital Imaging is a concurrent credit class designed for the student interested in exploring or pursuing graphic design careers. Students will learn how to use basic scanning techniques for grayscale and line art images; proper manipulation procedures required for various output sources, including input and output resolutions, file size, multiple file saving formats, image enhancements, creating duo-tones; and the creative use of Photoshop.

****GRA-127 ILLUSTRATOR I**

11-12 ½ credit unit (1 Semester)

Concurrent College Credit- 3.0 credits10th Grade can take w/ Instructor and GO approval**Prerequisite:** 2-Dimensional Art & Computer Tech

This course introduces Adobe Illustrator and its applications in graphic communication. Class activities include projects to explore the Adobe Illustrator tools as they apply to object (vector) based files, as well as, Adobe Illustrator filters and layers. Students practice basic drawing and tracing techniques, create line art, logos and learn to simplify art work through stylizing. Creative use of type is also explored. Students learn to set up color for reproduction, and also learn to save and manage files, and how files interact with page layout and paint (raster) programs.

*****Note: Kirkwood Community College Digital Imaging and Illustrator I area college courses, not high school course. Students who qualify must be prepared to meet a different and higher expectation. For example, Kirkwood Community College policies apply to these courses, along with Benton Community building policies. The KCC policies for grading, attendance and late work are more demanding than for a typical high school course.***

0238 ADVANCED ART

11-12 ½ credit unit (1 Semester)

Prerequisite: 2-Dimensional Art or 3 Dimensional Art
AND 2 additional art courses

This class is offered for the serious art student who wishes to study an art area in depth and may plan on pursuing an art-related field of study after high school. The course includes studio art in the area(s) of the student's interest, art history, matting/mounting and finishing of artwork, preparing of portfolios and art careers. The students will also participate in museum and artist visits, exhibitions and competitions and critiques. The students will prepare a one person art show of their work created during the course and participate in the Benton Art Show.

BUSINESS AND TECHNOLOGY

**Your opportunity to explore Business Pathways is NOW while in high school!
--Career Paths in Business--**

Accounting		
9 th Grade	Computer Tech	Intro to Business
10 th Grade	Computer Applications I	Accounting I
11 th /12 th Grade	Business Law	Accounting II
	Introduction to Computers	

Future Job Possibilities – Accounting:

Certified Public Accountant; Accounting Supervisor; Cost Accountant; Payroll Accountant; Auditor; Billing Clerk; Finance Director; Bookkeeper, etc.

Marketing/Management		
9 th Grade	Computer Tech	Intro to Business
10 th Grade	Computer Applications I	Accounting I
11 th /12 th Grade	Marketing/Management	Business Law
	Introduction to Computers	

Future Job Possibilities – Marketing/Management:

Marketing Manager; Market Researcher; Product Manager; Public Relations Specialist; Sales Manager; Small Business Owner/Entrepreneur; E-Commerce Manager; Wholesale/Retail Buyer, Project Manager, Human Resources Manager, etc.

Administrative and Information Support		
9 th Grade	Computer Tech	Intro to Business
10 th Grade	Computer Applications I	Accounting I
11 th Grade	Computer Applications II	
12 th Grade	Introduction to Computers	

Future Job Possibilities – Administrative/Information Support:

Office Manager/Administrator; Court Reporter; Paralegal; Executive/Administrative Assistant; Computer/Data Entry Specialist; Medical Transcriptionist; Legal Assistant; Dispatcher; Medical Office Manager/Assistant; Computer Help Desk; Software Trainer, Web Designer, etc.

--PLEASE NOTE--

Computer Tech is required for graduation. It is also highly recommended students take Computer Applications I as well. These two technology courses are beneficial to all future career paths.

Business and Technology Courses

0240 INTRODUCTION TO BUSINESS
9-10-11-12 ½ credit unit (1 Semester)

This course is designed to give students a basic introduction into business and personal finance. Areas of study include business and our economy, banking, money management, consumer credit, investing, international business, insurance, career planning, real estate/housing, and technology.

0241 KEYBOARDING BASICS
9-10-11-12 ½ credit unit (1 Semester)

The student will learn the keyboard by touch. Correct keying techniques will be emphasized and pace and accuracy will be developed. The student will use Microtype software to develop proper keying technique and Microsoft Word software to complete projects covering basic letters, memos and reports.

***NOTE: 7th and 8th grade Benton Middle School students have covered this material through their exploratory experiences. Most 8th grade students entering high school should be able to sign up for Computer Tech.**

0242 COMPUTER TECH
9-10-11-12 ½ credit unit (1 Semester)

Prerequisite: Keyboarding Basics OR Satisfactory completion of 7th and 8th grade exploratory (Comfortable with key location and 20 wpm or better)

This class will give students the opportunity to build their skills using the computer as a communication tool. Students will utilize more advanced Microsoft Word word processing features to complete projects covering various e-mail communication styles, letter styles, report styles, resumes, and tables. Students will also have the opportunity to learn to effectively use PowerPoint presentation software.

***NOTE: This class is required for graduation**

0243 COMPUTER APPLICATIONS I
9-10-11-12 ½ credit unit (1 Semester)

Prerequisite: Computer Tech

This course continues building word processing and presentation software skills and introduces spreadsheets, databases, charts, and merging features. **This course is very beneficial to all students no matter what their future career choice.** Students will work with Microsoft Word, Excel, Access and PowerPoint software.

0244 COMPUTER APPLICATIONS II
10-11-12 ½ credit unit (1 Semester)

Prerequisite: Computer Applications I

This course will give students the opportunity to experience a variety of technology often used in society today. Students will gain experience learning the basics of desktop publishing software, photo manipulation software and video editing software. Students will also be given various opportunities to gain experience in digital camera basics, scanning basics, and digital video basics along with video editing basics.

0246 ACCOUNTING I
10-11-12 ½ credit unit (1 Semester)

This course is designed to introduce students to accounting and the proper practices used in that field. Students will cover accounting procedures for a sole proprietorship and a merchandising corporation. Students will complete assignments using both manual accounting methods and computerized accounting methods using Excel spreadsheets and Peachtree accounting software. Students will also complete real world business simulations using automated accounting software.

0247 ACCOUNTING II
 11-12 ½ credit unit (1 Semester)
 10th Grade can take w/ Instructor and GO approval
Prerequisite: Accounting I

This course is a continuation of Accounting I. Students will continue covering accounting procedures for a merchandising corporation using both manual and computerized accounting procedures. Students will use Excel spreadsheet software and Peachtree computerized accounting software. Students will also complete real world business simulations using automated accounting software.

0249 MARKETING/MANAGEMENT
 11-12 ½ credit unit (1 Semester)
Prerequisite: Intro to Business

This course is designed for students interested in working in the corporate business world, or owning a business of their own. A focus on entrepreneurship and what it takes to succeed in the business world will be the basis for a personal business project completed throughout the term. Areas covered in this class will include marketing, finance (personal and business), sales, management, personnel issues, and decision-making plans that are important to any business.

0250 BUSINESS LAW
 11-12 ½ credit unit (1 Semester)
 Offered every other year opposite of Marketing/Management
Prerequisite: Intro to Business

This course is designed for students interested in learning more about the law and how it relates to businesses and to them personally. Class sessions are designed as interactive and discussion-oriented. Actual law cases are used periodically throughout the class to demonstrate student comprehension and utilization of law processes and procedures. Areas of study include crimes, law enforcement, torts, contract disputes, lease agreements, and laws relating to minors.

0268 PERSONAL FINANCE
 11-12 ½ credit unit (1 Semester)

Overall this course provides a foundational understanding for making informed personal financial decisions leading to financial independence. Real world topics covered will include career exploration and related after high school training/ college costs needed to achieve career goals; creating useful/meaningful spending plans to help guide financial decision making; gross/net income based on career interests; insurance; credit cards; savings/investing/checking accounts. ***NOTE: This class is required for graduation for Class of 2019 and beyond.**

**CIS-207	FUNDAMENTALS OF WEB PROGRAMMING	Concurrent College Credit- 3.0 credits
11-12	½ credit unit (1 Semester)	10 th Grade can take w/ Instructor and GO approval
Prerequisite:	Computer Applications I	

This college level course introduces you to basic web page development languages; including HTML markup language, Cascading Style Sheet (CSS) formatting, and JavaScript scripting language on an introductory level. You will use text and HTML editors to build web pages that included tables, forms, CSS formatting, list, graphics, and interactive JavaScript elements.

0269 **INTRODUCTION TO COMPUTERS (Concurrent Credit)**
11-12 ½ credit unit (1 term) (3 Kirkwood Credits)
Prerequisite: Computer Applications I

This class covers many important and varied computer concepts needed in today's society. This is done through a combination of both understanding computer concepts and mastering today's software. This course provides students with a general understanding of computer hardware and software and the ability to use this knowledge in the creation of useful information. Students will also work intensively with application software in the areas of word processing, spreadsheets, databases, and presentations. **Completion of this course will give students a transferable computer science/technology college credit.**

***Note: Kirkwood Community College Intermediate Computer Business Applications and Fundamentals of Web Programming are college courses, not high school courses. Students who qualify must be prepared to meet a different and higher expectation. For example, Kirkwood Community College policies apply to these two courses, along with Benton Community building policies. The KCC policies for grading, attendance and late work are more demanding than for a typical high school course.*

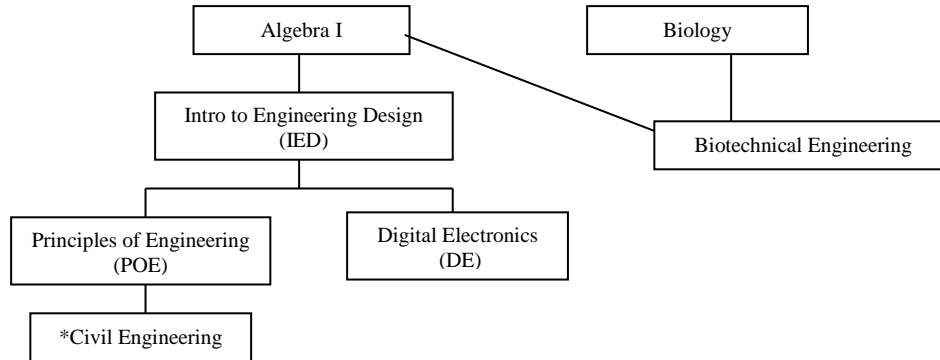
COORDINATED RECOVERY EDUCATION PROGRAM (C.O.R.E) **(At-Risk)**

C.O.R.E. classes are available in a variety of subjects for students who struggle in certain subject areas or require credit recovery courses. C.O.R.E. classes are self-paced where students are responsible for learning the content using appropriate texts and/or computer programs. Assessments are completed throughout the course to determine mastery of material. Classes available via the CORE program include: English, History, Science, Math and various electives. *All courses require approval from the At-Risk committee, are for one Semester and are worth 1/2 credit unit.*

ENGINEERING DEPARTMENT

Project Lead the Way (PTLW) is a national program forming partnerships among Public Schools, Higher Education Institutions and the Private Sector to increase the quality and quantity of engineers and engineering technologists graduating from our education system. The PTLW program consists of a sequence of courses which, when combined with college preparatory mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college. For more information about PTLW, please visit their website at <http://www.ptlw.org>.

Possible Engineering Course Sequence



*Seniors may taken Civil Engineering without first taking POE

Engineering Courses

**0381	INTRODUCTION TO ENGINEERING DESIGN (IED)	Concurrent College Credit- 3.0 credits
10-11-12	1 credit unit (2 Semesters)	9 th Grade can take w/ Instructor and GO approval
Prerequisite:	Algebra I	

This is the first course offered in the Project Lead the Way engineering sequence. This course provides the base knowledge for further study in the PTLW curriculum. Students learn how to solve problems using a design development process. This is a project-based class where students work with Inventor CAD software to design solutions to problems. Portfolios are created and include topics such as sketching and visualization, geometric relationships, 3-D modeling, model analysis and verification, documentation, production and marketing.

**0382	PRINCIPLES OF ENGINEERING (POE)	Concurrent College Credit- 3.0 credits
10-11-12	1 credit unit (2 Semesters)	9 th Grade can take w/ Instructor and GO approval
Prerequisite:	Introduction to Engineering Design	

This is the second course recommended in the Project Lead the Way engineering sequence. This class is a hands-on, project-based course that exposes students to the field of engineering/engineering technology. Exploring various design process and structures help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. Topics covered include mechanical advantage and simple machines, control systems and programming, statics and strengths, material testing, and an introduction to dynamics/kinematics.

****0385** **DIGITAL ELECTRONICS** **Concurrent College Credit- 3.0 credits**
10-11-12 1 credit unit (2 Semesters) 9th Grade can take w/ Instructor and GO approval
Prerequisite: Introduction to Engineering Design

This course in applied logic encompasses the application of electronic circuits and devices. Students use computer simulation software to design and test digital circuitry prior to the actual construction of circuits and devices.

****0386** **CIVIL ENGINEERING** **Concurrent College Credit- 3.0 credits**
11-12 1 credit unit (2 Semesters) 10th Grade can take w/ Instructor and GO approval
Prerequisite: Intro to Engineering Design and 12th Grade may take without POE
Principles of Engineering

The major focus of this course is completing long-term projects that involve the development of property sites. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of a property. The course provides teachers and students freedom to develop the property as a simulation or for students to model the experiences that civil engineers and architects face. Students work in teams, exploring hands-on activities and projects to learn the characteristics of civil engineering and architecture. In addition, students use 3D design software to help them design solutions to solve major course projects. Students learn about documenting their project, solving problems, and communicating their solutions to their peers and members of the professional community of civil engineering and architecture. This course is designed for 11th or 12th grade students.

****0387** **BIOTECHNICAL ENGINEERING** **Concurrent College Credit- 3.0 credits**
10-11-12 1 credit unit (2 Semesters)
Prerequisite: Algebra I and Biology

The major focus of this course is to expose students to the diverse fields of biotechnology including biomedical engineering, biomolecular genetics, bioprocess engineering, and agricultural and environmental engineering. Lessons engage students in engineering design problems related to biomechanics, cardiovascular engineering, genetic engineering, agricultural biotechnology, tissue engineering, biomedical devices, human interface, bioprocesses, forensics, and bioethics. Students in this course apply biological and engineering concepts to design materials and processes that directly measure, repair, improve and extend living systems. The BE course is designed for 11th or 12th grade students.

****0388** **COMPUTER SCIENCE AND** **Concurrent College Credit- 3.0 credits**
SOFTWARE ENGINEERING
10-11-12 .5 credit unit (1 Semester)
Prerequisite: Algebra I and Computer Technology

Computer Science and Software Engineering is a PLTW course. Students will work in teams to develop computational thinking and problem solving skills. The course does not aim to teach mastery of a single programming language, but aims instead to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity.

****0389**

**ENVIRONMENTAL
SUSTAINABILITY**

Concurrent College Credit- 3.0 credits

10-11-12

.5 credit unit (1 Semester)

Prerequisite: Algebra I & completed/enrolled in
Biology

This class aims to answer the question "What can you do to help make our world environmentally sustainable?" ES is a specialization class in PLTW. Students will investigate and design solutions to solve real-world challenges related to clean drinking water, a stable food supply, and renewable energy. Students are introduced to environmental issues and use the engineering design process to research and design potential solutions.

*****Note: Project Lead the Way courses are college level courses. Students who qualify must be prepared to meet a different and higher expectation. For example, Kirkwood Community College policies apply to these five courses, along with Benton Community building policies. The KCC policies for grading, attendance and late work are more demanding than for a typical high school course.***

ENGLISH

ENGLISH SEQUENCE

- 9th Grade Freshman English or 9th Honors English for 2 Semesters
10th Grade Sophomore English or 10th Honors English for 2 Semesters
11th Grade Junior English or 11th Honors English for 2 Semesters
12th Grade The following choices are available depending on current English placement:
1. Senior English for 2 Semesters
 2. Composition I and Composition II (KCC Concurrent Credit) for 1 Semester each
 3. Advanced Placement English for 2 Semesters

Composition I and II require a placement test score in order to be placed in the class. Information about this placement test is provided to all juniors during the spring.

English Courses

0301 FRESHMAN ENGLISH
9 1 credit unit (2 Semesters)

Freshman English is designed to give students a foundation in basic English skills. It will include units on the novel, short story, speech, drama and poetry. Writing will include narration/personal, description, persuasion and creative expression. The language workshop will concentrate on editing skills, word choice, clarity, sentence building, sentence skills, coherence and style. Other skills that will be emphasized are vocabulary, speaking and listening, following directions, thinking skills and study skills.

0302 9th HONORS ENGLISH
9 1 credit unit (2 Semesters)
Prerequisite: Teacher/Guidance Office/Parent Approval

This is a course designed for freshmen with advanced reading and writing skills. Extensive readings in the major literature genres will serve as a springboard to writings that demonstrate an in-depth understanding of these works of literature. Students will also complete coursework that will strengthen specific grammar and language skills.

0304 SOPHOMORE ENGLISH
10 1 credit unit (2 Semesters)

Sophomore English will cover continued development in three main areas: writing, speech and literature. Emphasis is placed on speeches and developing the research paper.

0305 10th HONORS ENGLISH
10 1 credit unit (2 Semesters)
Prerequisite: Teacher/G.O./Parent Approval

This course is designed to broaden the literature, speech and composition background of sophomore students above and beyond the regular Sophomore English curriculum.

0307 JUNIOR ENGLISH
11 1 credit unit (2 Semesters)

Junior English is designed to give students a foundation in basic English skills needed for either college or the world of work following high school. Units will include drama, short story, poetry and the novel. Emphasis here is on an intense writing and language program integrated with the study of American literature. Skill emphasis is on vocabulary, speaking and listening, following directions, thinking skills and study skills. Writing workshop will study narration, personal writing, description, observation, persuasion, argumentation and exposition.

0308 **11th HONORS ENGLISH**
11 1 credit unit (2 Semesters)
Prerequisite: 9th & 10th Honors English

Junior Honors English Class is a continuation of our advanced placement classes in English. Students gain skills in analyzing the rhetoric of prose passages of literature and writing essays in various rhetorical modes. In addition we read selected poems and prose passages analytically and write critical or analytical essays based on poems, prose passages and complete novels or plays.

0380 **SENIOR ENGLISH**
12 1 credit unit (2 Semesters)

Senior English focuses on refining students' communication skills in a variety of written and spoken formats, both traditional and modern. The class focuses secondly on expanding students' understanding of the world, applying critical thinking and analysis to texts and media beyond the classical literary canon. This course will explore media such as film, television, the internet, and sequential narrative art such as comedy and science-fiction.

****ENG-105** **COMPOSITION I** **Concurrent College Credit- 3.0 credits**
12 ½ credit unit (1 Semester)
Prerequisite: Qualifying placement score as determined by Kirkwood Community College

Kirkwood Community College Composition I helps students develop skills in narrative writing and expository writing with emphasis on organization, supporting details, style, vocabulary, editing skills and research skills. ****Kirkwood Community College Composition I is a dual credit course. Students who pass the course will receive 3.0 college credit hours and Benton Community credit. The college credit is transferable to many other colleges.**

****ENG-106** **COMPOSITION II** **Concurrent College Credit- 3.0 credits**
12 ½ credit unit (1 Semester)
Prerequisite: Kirkwood Community College Composition I

Kirkwood Community College Composition II teaches precise and responsible use of research tools; requires critical analysis of reading materials and audience and self when communicating content material; and develops students' abilities to use effective and ethical arguments. ****Kirkwood Community College Composition II is a dual credit course. Students who pass the course will receive 3.0 college credit hours and Benton Community credit. The college credit is transferable to many other colleges.**

****Note: Kirkwood Community College Composition I and Composition II are college courses, not high school courses. Therefore, to enroll in either of these courses, BC students must meet KCC qualifications. Students who qualify then must be prepared to meet a different and higher expectation. For example, Kirkwood Community College policies apply to these two courses, along with Benton Community building policies. The KCC policies for grading, attendance and late work are more demanding than for a typical high school course. Also, homework averages 5 – 10 hours each week.**

0383 **ADVANCED PLACEMENT ENGLISH**
12 1 credit unit (2 Semesters)
Prerequisite: 11th Grade Honors English

Senior AP English consists of the traditional survey of English (British) Literature, from the Anglo-Saxon period through modern times, combined with extensive reading and writing assignments for classic literature of various genres. Students taking the course will be preparing themselves for the taking the Advanced Placement Test, which will be given toward the end of the school year. ****This class can be used to meet 12 grade English requirements.**

English Electives

03140 **FILM ARTS**
10-11-12 ½ credit unit (1 Semester)

Film Arts is a high-level Language Arts course for students who wish to study writing, storytelling, and media within the world of film. Students will watch, discuss, analyze and write about various masterpieces throughout American film history, while connecting those films to the social and political eras they came from. Students will also study the formal and technical aspects of film. The course culminates in the production of a short film which students collaborate to write, shoot, and edit.

****SPC-101** **FUNDAMENTALS OF ORAL** **Concurrent College Credit- 3.0 credits**
 COMMUNICATION
11-12 ½ credit unit (1 Semester)

Studies basic communication theory and practice including communication process, interpersonal relationships, small group interaction and public speaking.

***Note: Kirkwood Community College Fundamentals of Oral Communication is a college course, not a high school course. Students who qualify must be prepared to meet a different and higher expectation. For example, Kirkwood Community College policies apply to this course, along with Benton Community building policies. The KCC policies for grading, attendance and late work are more demanding than for a typical high school course.*

0319 **JOURNALISM/YEARBOOK**
11-12 1 credit unit (2 Semesters) 10th admitted with instructor approval
Prerequisite: Requires maintaining a B- grade or higher in English
Elective credit for grade 11 and English Credit for Grade 12

Students will study the fundamentals of journalism and produce the school newspaper and/or the high school yearbook and middle school yearbook. Skills acquired will include editing, improving critical reading, thinking, using Adobe InDesign CS, and Adobe Photoshop, working with deadlines, using time management skills, writing creatively and effectively and using journalistic style. Also, students will learn the operation of a 35mm digital camera, composition, editing, and cropping photos. Students will photograph a variety of subject matter from sporting events to candid photos applicable to yearbook layouts.

FAMILY AND CONSUMER SCIENCE (FACS)

The Family and Consumer Science program of Benton Community High School is a discipline that prepares young people for living in today's world as well as tomorrow's. Its basis is founded on human and personal development that is a practical guide to adult living. This is important since the family is the basic unit of civilized society. Experiences are provided in all areas of the curriculum to strengthen family life, prepare students for the dual role of family member and wage earner and related careers.

FACS COURSE SEQUENCE/COURSES THAT BUILD ON ONE ANOTHER

FOODS AND NUTRITION

Foods and Nutrition I
Foods and Nutrition II
Creative Foods

HUMAN RELATIONS

If a student is going to take both Teen Issues and Work & Family Relationships, it is preferable to take Teen Issues in 9th or 10th grade and take Work & Family Relationships in 11th or 12th grade.

Family and Consumer Science Courses

0353 BEGINNING TEXTILES AND CLOTHING

9-10-11-12 ½ credit unit (1 Semester)

Beginning Textiles and Clothing provides an opportunity for students to learn construction of two basic garments and an accessory with the latest technology available; sergers, electronic sewing machines, and embroidery machines. Students are responsible for supplies, patterns and fabric to sew these garments. Students will learn about the Elements and Principles of Design and how they relate to clothing choices, how to choose colors to wear, clothing care, fibers used in fabrics, and the best clothing styles for a variety of body types. Careers in the fashion industry and fashion designers are covered in individual projects. This is a project-oriented class.

0341 ADVANCED TEXTILE AND INTERIOR DESIGN

9-10-11-12 ½ credit unit (1 Semester)

Prerequisite: Beginning Textiles & Clothing (11th and 12th grade can take without a prerequisite)

This course will include housing and interior design as the main focus. Self-motivation and personal responsibility are essential to success in the course. Students will study elements of design, color, furniture styles, floor plan drawing, and furniture arrangement. Projects will include fabric dyeing and painting, and a quilted pillow. A term project is completed, which may include a quilt, or a combination of machine embroidery, pillows, window treatments, projects from fleece, or recycled projects.

0352 HOUSING AND INTERIOR DESIGN

10-11-12 ½ credit unit (1 Semester)

This course is concerned with homes as an environment for families, human needs and housing, choosing a career in the housing profession, early homes, housing trends, and buying a home. The course also includes the elements and principles of design, architectural styles, color, backgrounds, (paint, trim, flooring, wall and window treatments) furniture styles and arrangement, and floor plans. Class work will include a cumulative major individual project (housing notebook). Self-motivation and personal responsibility are essential to success in the course.

0342 **FOODS & NUTRITION I**
9-10-11-12 ½ credit unit (1 Semester)

This course emphasizes the basic principles of food preparation. Major units include cleanliness, nutrition, safety and energy conservation, microwave cookery, baked products, yeast breads, pies, fruits and vegetables, eggs, cheese, milk, table settings and etiquette. The major concepts will be enhanced through hands-on laboratory preparations of the foods being studied and 2 major projects, the Family Meal Project and the Personal Nutrition Project.

0343 **FOODS & NUTRITION II**
9-10-11-12 ½ credit unit (1 Semester)

Prerequisite: Foods & Nutrition I

This course builds on the knowledge acquired in Foods & Nutrition I. Major units covered include fat cookery; foam cakes; custard and cream pies; candies; frozen desserts; red meats, poultry, fish and shellfish; meal management; and careers related to the food industry. The major concepts will be enhanced through hands-on laboratory preparations of the foods being studied and application of meal management.

0344 **CREATIVE FOODS**
11-12 ½ credit unit (1 Semester)

Prerequisite: Foods & Nutrition I & II

This course builds on the basics and leads to more advanced skills and concepts in meal preparation. Students will learn to alter and create foods from basic recipes. In addition, the following units will be covered: cake decorating; barbecuing; low calorie and low fat foods; foreign food cookery; entrepreneurship; cooking for entertainment purposes; and canning, freezing and drying. Students will be encouraged to experience 5 hours of work in a food industry related setting.

0348 **TEEN ISSUES**
9-10-11-12 ½ credit unit (1 Semester)

This course is designed to help students confront many of the issues in teen life today. Students will have an opportunity to consider the “the big picture” of many issues. The purpose is to facilitate better decision-making. Each student will be required to do an illustrated presentation on an issue and do group work. Topics include: building self esteem, realizing your potential, your value system, building character, setting goals, decision making, building relationships and understanding authority, love, dating, sexuality and respect, teen pregnancy, resolving and avoiding conflicts, communication and listening, coping with divorce, eating disorders, and teen suicide and depression.

0347 **WORK & FAMILY RELATIONSHIPS**
10-11-12 ½ credit unit (1 Semester)

This is a course designed to help students explore all aspects of the impact of relationships in their life. Some of the units in the class will include: the family as the foundation of our society trends affecting families, strengthening relationships, roles and relationships, birth order and personality, improving communication and resolving conflicts, decisions affecting their future, lifestyle options and consequences, dealing with crisis and managing family living, managing work and family life, divorce and remarriage, coping with death, dating and preparing for marriage, the decision to parent and skills needed to be a successful parent. Students will be expected to discuss and interact in class.

0355 **CHILD DEVELOPMENT I**
10-11-12 ½ credit unit (1 Semester)

Most people in our society become parents; therefore, the focus of this class is for students to understand the development of children. Units will include the family decision to parent, careers related to children, strengthening families, discipline and guidance, prenatal development, birth and delivery, infancy, (conception to age 18 months), and the physical, intellectual, emotional, and social developmental tasks during these stages. Students will care for an infant simulator for 48 hours (or more.) Many contemporary parenting concerns, ranging from child abuse to substitute childcare to children's education needs are explored. Students will learn how to promote interactions with children which are enjoyable, supportive, encouraging and rewarding. Students will do age appropriate projects.

0356 **CHILD DEVELOPMENT II**
10-11-12 ½ credit unit (1 Semester)
Prerequisite: Child Development I

Child Development II builds on Child Development I focusing on the social, mental, physical, and emotional development characteristics of the toddlers to preschool age children. Also included are effective child guidance techniques and helping children with special needs. Students will have practical experience working with young children in a school or daycare setting.

0346 **INDEPENDENT LIVING**
11-12 ½ credit unit (1 Semester)

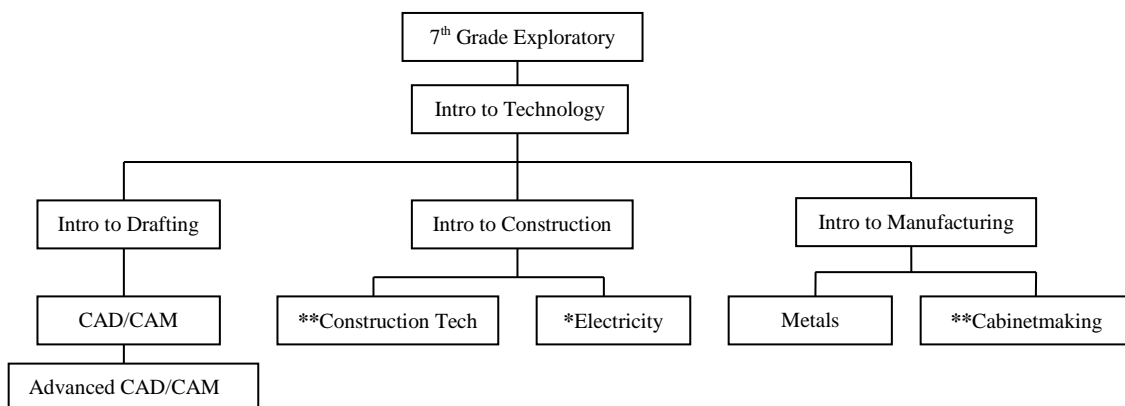
This course is designed to help students become prepared to face the challenges that come with living on your own. Some of the units in the class will include: personal development, career exploration /job shadowing, resumes and interviewing for a job, job benefits, college planning/scheduling, budgeting money and time, consumer credit, banking, buying insurance (life, health, auto, home, and disability), the meaning of citizenship, buying and selling a car, consumer skills, managing your resources, renting an apartment/buying your first home, dealing with roommates, and nutrition.

INDUSTRIAL TECHNOLOGY DEPARTMENT

Vision Statement

The goal of the Industrial Technology Department is to expose students to a variety of career choices, while at the same time, helping them to focus on possible career opportunities. This is done by introducing students to the four areas of technology: Communications, Construction, Manufacturing and Transportation. After the basic foundation is set, students advance to more specific classes in which hands-on, real-world experiences facilitate learning. It is not the purpose of this department to simply teach skills, but rather to offer some of the essential elements that will ultimately determine a person's success or failure. These elements include problem solving skills, critical thinking skills, taking responsibility for one's actions and becoming a life-long learner.

Industrial Technology Suggested Career Program of Study



*Juniors and Seniors may take these courses without a prerequisite

** Cabinetmaking, Construction Tech, and Intro to Construction can be taken after Intro. To Technology.

Industrial Technology Courses

0360 INTRODUCTION TO TECHNOLOGY

9-10-11-12 ½ credit unit (1 Semester)

This course is a prerequisite for all other Industrial Technology Courses

This course is an experimental, career oriented class offering the student an activity-based learning opportunity. This is the primary course for students interested in Industrial Technology. Areas studied include Communications, Construction, Manufacturing and Transportation Technologies. Activities may include: CAD drafting, graphic design, building small structures, CNC lathe and/or mill, robotics, laser and fiber optics, and CO2 cars.

0361 INTRODUCTION TO DRAFTING

9-10-11-12 ½ credit unit (1 Semester)

Prerequisite: Intro to Technology

This course is a basic drafting class. Students will study and learn various drafting techniques. The learner will use traditional drafting equipment to better understand oblique pictorials, section views, perspective drawings, isometric drawings and multi-view drawings. In addition, students will be able to integrate 2D designs into a 3D design environment utilizing a 3D modeling software.

0362 INTRODUCTION TO CONSTRUCTION

9-10-11-12 ½ credit unit (1 Semester)

Prerequisite: Intro to Technology

This course gives the student the basic understanding of construction and the systems involved in construction. The student will learn about planning and managing construction, building homes and other buildings. Hands-on activities will be incorporated. This knowledge of construction will give a career focus, broaden career options and possibly facilitate career placement.

0363 INTRODUCTION TO MANUFACTURING

9-10-11-12 ½ credit unit (1 Semester)

Prerequisite: Intro to Technology

This course introduces the student to the manufacturing industry, its processes and career opportunities. The class includes two parts: general knowledge and mass production. The general knowledge portion helps build a knowledge base for manufacturing, and also includes problem-solving activities. The mass production part will cover shop safety, the development of a company, and the creation and marketing of a product. The company will develop drawings, make a bill of material, and develop a plan of procedures. This class may include advertising, and selling stock to raise money for the production of a product. The company's members will learn about investing. By working in a group setting, the members will also learn the importance of cooperation and communication. In addition, students explore career options in manufacturing related industries.

0367 CONSTRUCTION TECHNOLOGY

11-12 ½ credit unit (1 Semester)

Prerequisite: Intro to Technology

This course is designed to apply theories and practices learned in Intro to Construction. This is accomplished by the construction of utility sheds, school projects, garages, remodeling projects, and possible community projects. **Juniors and Seniors may enroll in this course without a prerequisite.**

0368 ELECTRICITY

11-12 ½ credit unit (1 Semester)

Prerequisite: Intro to Technology & Intro to Construction
(11th and 12th grades may enroll with only Intro to Tech)

This course begins with electron theory and proceeds through units in resistance, conductance, series circuits, parallel circuits, series-parallel circuits, and meters as they apply to direct current applications. Soldering and splicing of wires and a practical home wiring unit will also be included. This will be done both in the classroom and the laboratory. Safety procedures will be stressed. Maximum of 16 students will be allowed in the class. **Juniors and Seniors may enroll in this course without a prerequisite.**

0369 CABINETMAKING

11-12 1 credit unit (2 Semesters)

Prerequisite: Intro to Technology
(11th and 12th grades may enroll with only Intro to Tech)

Cabinetmaking focuses on theory and application of woodworking. This is accomplished through project design, plan of procedure and the use of modern hardware. Safe operation of woodworking equipment and basic woodworking construction techniques will provide the student with the knowledge and skills to build and apply finishes to woodworking projects. **Juniors and Seniors may enroll in this course without a prerequisite.**

0370 METALS

11-12 1 credit unit (2 Semesters)

Prerequisite: Intro to Technology & Intro Manufacturing

This course will allow the student to explore the field of metals. The student will be able to work in arc welding, gas welding, MIG welding, TIG welding, sheet metal, machining on the milling machine and the lathe, foundry and forging. After the student has explored in these areas, they will be able to build their own project/projects involving one or more of the areas. Maximum of 16 students will be allowed in the class.

0366 CAD/CAM

11-12 ½ credit unit (1 Semester)

Prerequisite: Intro to Technology & Intro to Drafting

This course takes the knowledge gained in Intro to Drafting and applies it to Computer Aided Manufacturing. There will be CNC Programming using G and M Codes and the creating of parts in CAD. These will be converted by CAM software to machine parts on the CNC Lathe, CNC Mill, and CNC Router.

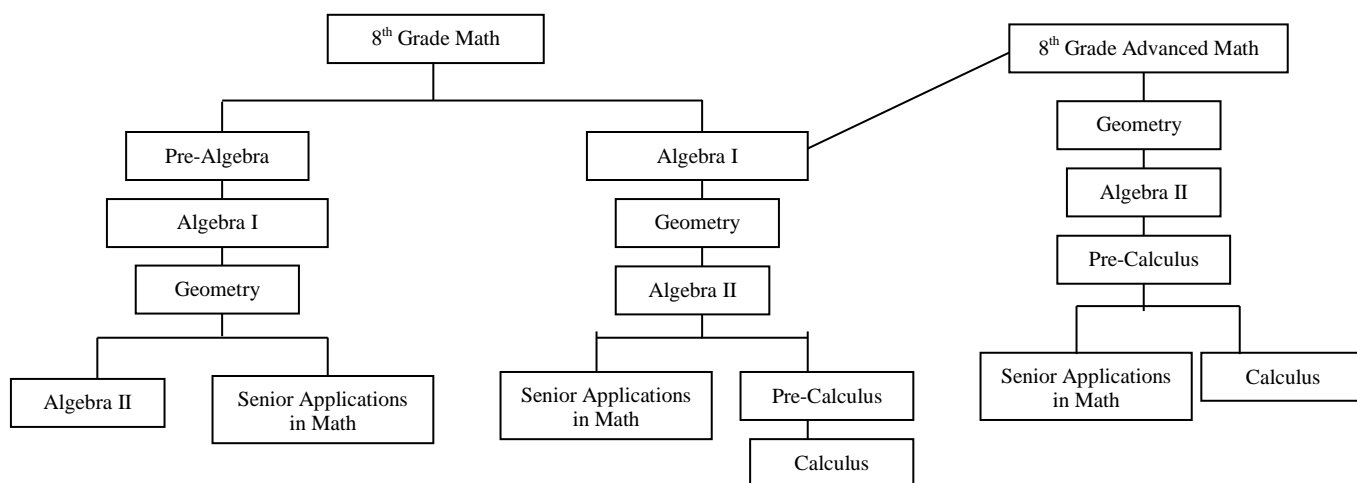
0372 ADVANCED CAD/CAM

11-12 ½ credit unit (1 Semester)

Prerequisite: CAD/CAM

This course is an extension of CAD/CAM; however, the exploration of solid and/or 3-D modeling will be applied.

MATHEMATICS DEPARTMENT
Possible Math Sequences



0453 PRE-ALGEBRA
9-10-11-12 1 credit unit (2 Semesters)

Students that may need more work with their basic math skills and content knowledge before moving into Algebra I should consider taking Pre-Algebra. Topics covered in Pre-Algebra include recognizing number patterns and operations for integers and rational numbers, simplifying variable expressions, working with all aspects of linear functions, and previewing other commonly used functions. Becoming better independent problem solvers is a focus in Pre-Algebra.

0443 ALGEBRA I
9-10-11-12 1 credit unit (2 Semesters)

Algebra I is a prerequisite to Geometry. Topics covered in Algebra I include real number operations/properties/patterns, linear functions and systems of equations, polynomial functions, and rational functions. Applying skills learned in this class to real-world situations is a focus in most every chapter.

0446 GEOMETRY
9-10-11-12 1 credit unit (2 Semesters)
Prerequisite: Algebra I

This course is a prerequisite for Algebra II. This course will consist of studying and applying definitions, theorems, postulates and corollaries of geometry. Students will use several forms of proof and reasoning, including coordinate proofs, formal proofs, indirect proofs, and inductive and deductive reasoning. Topics covered will include relationships between points, lines, planes, triangles, quadrilaterals, other polygons, circles, and basic trigonometry.

0444 ALGEBRA II
10-11-12 1 credit unit (2 Semesters)
Prerequisite: Algebra I

Students planning to attend a two or four-year college should take Algebra II. This course is a prerequisite for Pre-Calculus and builds on topics covered in Algebra I in greater detail. Topics discussed in this class include sets of numbers, linear functions and systems of equations, matrices, radicals, complex numbers, polynomial functions, quadratic functions, rational expressions, logarithmic and exponential functions, conic sections and systems of second-degree equations. Applying skills learned in this class to real-world situations is a focus in most every chapter.

0454 **PRE-CALCULUS**
11-12 1 credit unit (2 Semesters) 10th with instructor approval
Prerequisite: Algebra II
Requirement: Graphing Calculator (TI-84 Plus is recommended)

Students planning to attend a two or four-year college should consider taking Pre-Calculus. The content of Pre-Calculus is very much like an entry-level college math course. This course is a pre-requisite for Calculus. Pre-Calculus focuses a great deal on analyzing the behavior of functions. Students should already be familiar with linear, quadratic, exponential, and logarithmic functions from previous courses. They will take a more in-depth look at these functions along with rational, polynomial, and trigonometric functions. Applying skills learned in this class to real-world situations is a focus in most every chapter.

0452 **CALCULUS**
12 1 credit unit (2 Semesters)
Prerequisite: Pre-Calculus
Requirement: Graphing Calculator (TI-84 Plus is recommended)

Any student who has post-secondary education plans should consider taking Calculus. This course covers the same material as the first semester of Calculus in college. The differential part of Calculus (derivatives) includes finding instantaneous slope, velocities, accelerations, related rates, and maximum/minimum (optimal) values of a function. The integral part of Calculus deals with finding the area under a curve when a formula such as $A = l \times w$ is not applicable. An above average ability in algebra skills and trigonometry is needed.

0456 **SENIOR APPLICATIONS IN MATH**
12 1 credit unit (2 Semesters)
Prerequisite: Geometry

The purpose of Senior Applications in Math is to better prepare students for any college experience or for the world of work. The three components of the class are as follows: a review of basic operations with integers, fractions, decimals, and percents; career exploration and employability skills; and financial literacy including payroll, checkbooks, credit, credit cards, loans, investing, and insurance.

0457 **STATISTICS AND PROBABILITY**
11-12 .5 credit unit (1Semesters)
Prerequisite: Algebra II

This course is designed for a student who wants to continue to be mathematically challenged. Students will learn how to collect, organize, analyze, and interpret data in order to make decisions. Topics covered will include probability and statistics. The purpose for this course is to provide introductory knowledge for future statistics and probably courses in college.

MUSIC DEPARTMENT

0554 **MUSIC THEORY (Independent Study)**
9-10-11-12 ½ credit unit (1 Semester)
Prerequisite: Approval of Instructor & 1 free period in school day

This course will cover the study of music theory and music history. This course is intended for music students who want to learn more about the elements of music and broaden their understanding of music.

Instrumental Music Courses

0551 **HIGH SCHOOL BAND**
9-10-11-12 1 credit unit (2 Semesters)

High School Band includes Concert Band, Pep Band and Marching Band. This class meets every day. Other playing opportunities include Honor Bands, Solo and Ensemble Contest, large group contests and All-State Tryouts. Each band student is scheduled to take one lesson per cycle. Attendance at all performances is also required. The band aims to develop the playing abilities and understanding of music on the part of the students. The credit counts on GPA.

0553 **JAZZ BAND (Early Bird)**
9-10-11-12 ½ credit unit (2 Semesters-2nd & 3rd Quarter)
Prerequisite: Approval of Instructor & Band Membership

This class meets before school. The Jazz Band studies and performs jazz and related styles of music. Attendance at all performances is required, and Jazz Band members must also be members of the Concert Band. Guitar, bass, and piano players may be exempted from Concert Band. Credit counts on GPA.

Vocal Music Classes

0555 **CONCERT CHOIR**
11-12 1 credit unit (2 Semesters)
Cost: \$25 for costume rental

Concert Choir is available to all 11th or 12th grade students and will meet on a daily basis. This choir will focus on fundamentals of proper vocal technique, music reading skills and overall musicianship. Students will also be tested on material covered in class with regard to literature, historical significance, music theory and concert reflections. Attendance at all scheduled performances is a requirement for this class. This choir will participate in four home concerts, two National Anthem performances, a Veteran's Day performance, Commencement, and State Large Group Competition.

0556 **CELEBRATION COMPANY**
9-10-11-12 ½ credit unit (All Year)
Prerequisite: Choir Membership
Cost: \$125 uniform rental fee (Assistance Available)

Celebration Company is a show choir selected by auditions held late in the spring of the previous year. This ensemble is open to any student in grades 10-12. You must also register for concert choir or mixed choir if you wish to participate in the show choir. This group will perform a variety of musical genres. Celebration Company will also participate in 4 competitions during the school year. Participation in "A Touch of Class" is a requirement of this class as well. Celebration Company will meet opposite the 9-10 mixed choir during the seminar Semester as well as some evening (usually Monday) and weekend rehearsals. There is a financial commitment with this group, as well as a significant time commitment outside of the school day.

0557 **CHAMBER CHOIR**
9-10-11-12 ¼ credit unit (2 Semesters-Every other day-1st & 2nd
Quarter)

This will be the most select choir at Benton Community. This choir will consist of between 20 and 24 people. The choir will meet every other day from 7:25-8:05 and will perform at the Fall concert as well as the Madrigal dinner. This group will consist of students trying out for the All-State choir first term and will be the Madrigal singers during the second term. This ensemble will focus on literature from every genre of music and will require a higher level of understanding and commitment from the singers.

0558 **MIXED CHOIR**
9-10 1 credit unit (2 Semesters)

The mixed choir is open to all interested students in grades 9 and 10. Mixed Choir will meet every other day opposite Celebration Company during the seminar Semester. This choir will focus on fundamentals of proper vocal technique, music reading skills and overall musicianship. Students will also be tested on material covered in class with regard to literature, historical significance, music theory and concert reflections. Attendance at all scheduled performances is a requirement for this class. This choir will participate in four home concerts, two National Anthem performances, a Veteran's Day performance, Commencement, and State Large Group Competition. Occasionally this group will join with the Concert Choir to perform.

0552 **JUBLIATION INC**
9-10-11-12 No Credit - Opposite Mixed Choir
Prerequisite: Choir Membership
Cost: \$75 uniform rental fee (assistance available)

Jubilation, Inc. is a show choir selected by auditions held late in the spring of the previous year. This ensemble is open to any student in grades 9-12. You must also register for concert choir or mixed choir if you wish to participate in the show choir. This group will perform a variety of musical genres. Jubilation, Inc. will also participate in 4 competitions during the school year. Participation in "A Touch of Class" is a requirement of this class as well. Jubilation, Inc. will meet opposite the 9-10 mixed choir during the seminar Semester as well as some evening (usually Monday) and weekend rehearsals. There is a financial commitment with this group, as well as a significant time commitment outside of the school day.

0561 **MEN'S & WOMEN'S CHOIR**
9-10-11-12 No Credit- 4th Term- Seminar

These ensembles will meet during fourth term only and prepare men's choir and women's choir literature for the State Large Group contest in May, as well as the Spring concert at BC. Men's and Women's choir will be comprised of members of Celebration Co., Jubilation, Inc and any other 9-12 students interested who are also enrolled in Concert Choir or Mixed Choir.

0562 **SHOW CHOIR BAND**
9-10-11-12 No Credit- 2nd & 3rd Term- Seminar
Prerequisite: Band Membership (or drum, keyboard or
guitar player)

This ensemble will provide the accompaniment for Celebration Co. show choir. It is open to any students enrolled in the high school instrumental program (excluding drums, keyboards and/or guitar). This ensemble is an auditioned group (auditions in the Fall) and will rehearse with Celebration Co. during seminar 2nd and 3rd terms over the seminar time. Participation in all shows and competitions is required. Rehearsals will include evenings (usually Mondays) and performances will include weekends during February and March.

Participation at “A Touch of Class” is also a requirement.

PHYSICAL EDUCATION AND HEALTH SCIENCES DEPARTMENT

Students are required by law to take one Semester of physical education each year of high school. Physical Education will be scheduled as a 9th – 12th grade class. Each course will consist of a variety of outdoor and indoor units, which will enable a student to improve his or her skills in team and individual activities. Activities to improve student physical fitness will be integrated into each course. Each Semester is worth 1/2 credit unit. Students may take more than one Semester per year.

0670 **9-12 PE**
9-10-11-12 ½ credit unit (1 Semester)

Physical Education will consist of a variety of outdoor and indoor units, which will enable students to improve their skill in team and individual activities and enhance their physical fitness level.

0667 **PHYSICAL FITNESS AND CONDITIONING**
9-10-11-12 ½ credit unit (1 Semester)

This physical education class is oriented toward students who are concerned about their own wellness. Students will learn and experience the importance of being in shape. The focus of this class will be on the five principles of physical fitness: warming up, flexibility, cardiovascular endurance/body composition, exercises for muscular strength/endurance, and exercises for cooling/warming down. It will also include units that relate to leisure and lifetime activities. Students will be taught proper techniques and safety regulations for all activities.

0668 **PREVENTATIVE HEALTH**
9-10-11-12 ½ credit unit (1 Semester)

Designed to be taken in freshman or sophomore year, this course covers topics that will help the student develop an appreciation and awareness of a healthy lifestyle. Units covered will include personal health, mental health, drug misuse and abuse, diseases and disorders.

0669 **PHYSICAL HEALTH & SAFETY**
9-10-11-12 ½ credit unit (1 Semester)

Designed to be taken by freshman or sophomore year, this course covers topics that will help the student develop an appreciation and awareness of a healthy lifestyle. Units covered will include lifetime fitness, consumer health, lifetime nutrition, and CPR. A \$5.00 fee is to cover CPR materials through the American Heart Association. This is optional for students who want a CPR card upon completion of the unit.

****0671**
11-12

HEALTH SCIENCES ACADEMY
2 credit units (4 Semesters)

Concurrent College Credit- 9.5 credits

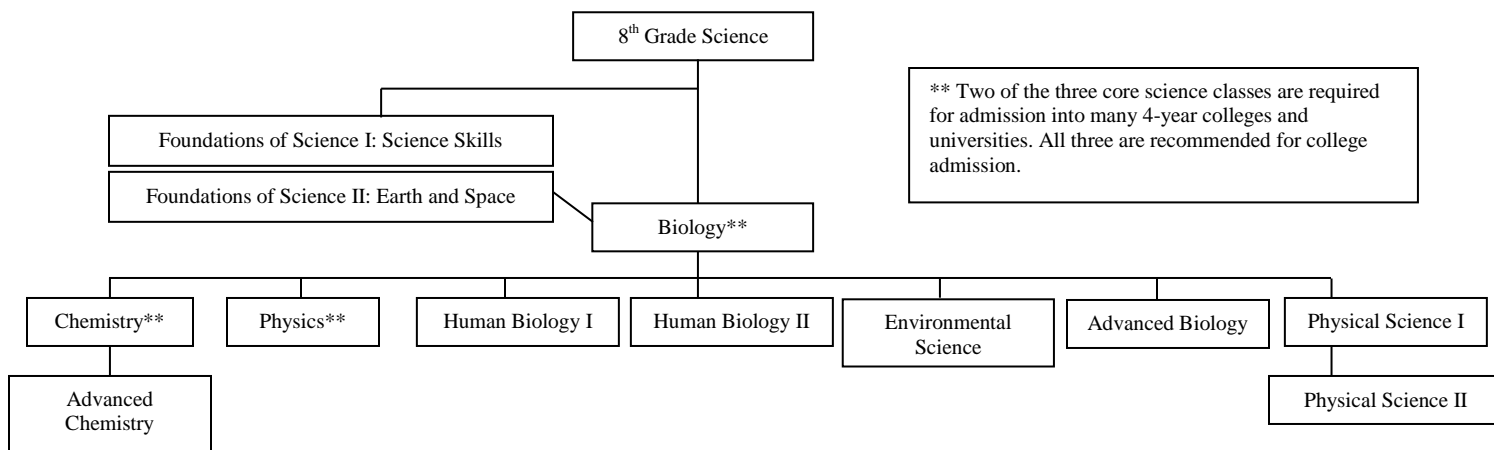
Courses are designed to provide an exploration of health careers and to introduce students to the communication skills, medical terminology, anatomy and physiology, and professionalism required of health professionals. Students will learn the specific skills needed to provide them with employable skills as a nurse aide. Students will go to 36 hours of clinic during this course and five job shadows. Basic medical terminology, first aid concepts, nurse aide course, and CPR for Health Providers will be taught.

Registration in the Health Sciences Academy course generates a transcript at Kirkwood Community College. The transcript lists the college courses the student was registered in and the grade earned. There will be no charge for college credit awarded through the articulation agreement, unless the student does not pass the course successfully. If a student should fail the course, he/she will be required to pay \$250. To qualify for the college credit awarded in this agreement, the student must enroll at Kirkwood within one year following graduation from high school. For those enrolling later, the College will review each applicant to determine what credit will be awarded. Most colleges or universities accept these credits as electives. Students in this program earn both high school and Kirkwood college credit. Students will earn a grade on their Kirkwood transcript and will be awarded college credit at Kirkwood Community College as follows:

Course No.	College Credit Classes/Descriptions (PATIENT CARE)	College Credit
HSC-107	Professionals in Health Learn the skills and characteristics expected for professional preparation and employability. Explore the health industry, see current trends and issues, and study the work environment as it relates to health and safety regulations.	2.0
HSC-115	Basic Medical Terminology A comprehensive study of medical terminology as the language of medicine. Analyses 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, abbreviates, pronunciation and spelling.	4
HSC-1729	Nurse Aide Provide safe, effective resident care giving skills and concepts. This class includes 30 hours lecture, 15 hours lab, and 30 hours clinics per State guidelines.	3.5
HSC-205	Exploration of Healthcare Careers Explores all aspects of health care and careers in the field. Focuses on understanding basic wellness, and growth and development of the human being. Includes field trips to an emergency room at a local hospital, a surgical center, a free healthcare clinic, a dental clinic, an outpatient OT/PT/speech center, administrative offices at a nursing home and a laboratory. Covers the past, present and future of health care. Introduces key career cluster terms and career options within each career cluster. Provides career information, including education required for each area, educational costs to attain a degree versus expected career earnings, job descriptions, case studies and skills needed to specific career areas. Results in CPR for the Healthcare Provider and Basic First Aid certification upon successful completion.	3
Total college credits		12.5

SCIENCE DEPARTMENT

Possible Science Sequence



Science Courses

**0792 FOUNDATIONS OF SCIENCE:
SCIENCE SKILLS**
9-10 .5 credit unit (1 Semesters)

This one semester course teaches students the skills to be successful science students. This course lays the foundation for the skills needed to be successful in higher order thinking in the science content areas. An atmosphere is created with a focus on using scientific measurement tools, metric system conversions, and data collection techniques, and scientific inquiry. These skills are then applied to introductory Biology and Chemistry concepts.

**0793 FOUNDATIONS OF SCIENCE:
EARTH AND SPACE SCIENCE**
9-10 .5 credit unit (1 Semesters)

This one semester course teaches students introductory concepts in Physics and Earth and Space science. The class content will focus on the study of motion, force, stars and the universe, the solar system, history of the Earth, and weather and climate.

0785 BIOLOGY
9-10-11-12 1 credit unit (2 Semesters)
Prerequisite: Integrated Science I & II or 8th Grade Recommendation

Biology is the study of living things. Term 1 will focus on cellular structure and function. Topics will include structure/function of cells, cell balance, respiration, nucleic acids (DNA/RNA), protein synthesis, cell division and genetics. Term 2 will focus on plants and animals. Topics for plant study will include structure/function, reproduction, photosynthesis, classification, and plant responses. Topics for animal study will include the invertebrate animal group of sponges, worms, mollusks, arthropods, insects, starfish, and the vertebrate animal group of fishes, amphibians, reptiles, birds and mammals.

0774 HUMAN BIOLOGY I
10-11-12 ½ credit unit (1 Semester)
Prerequisite: Biology

This course is a study of the human body and how it works. Emphasis is placed on the structure and function of the systems of the human body, including the integumentary, skeletal, muscular and nervous systems. Further, the course introduces the student to anatomical terms and tissues of the body. This course will be of value to all students who desire to learn more about their own bodies, and it is particularly helpful to those interested in pursuing a career in the biological sciences, physical education or medicine.

0789 HUMAN BIOLOGY II
10-11-12 ½ credit unit (1 Semester)
Prerequisite: Human Biology I

This course continues the study of the human body and its functions. Organ systems not studied in Human Biology I will be studied in this course. This includes learning the structure and functions of the sensory, endocrine, cardiovascular, digestive, urinary, respiratory and reproductive systems. Human Biology (I) is a prerequisite for this course. This course will be of value to students who wish to learn more about their bodies, and will also be useful to students who are interested in careers in the biological sciences, health or medicine, and physical education or sports medicine.

0775 ENVIORNMENTATL SCIENCE
10-11-12 ½ credit unit (1 Semester)
Prerequisite: Biology

This course will focus on the study of the relationship between the living world (plants and animals) and the nonliving world (air, water, soil, minerals, etc.) Major topics of study will include ecosystems and management; pollution, wastes and air; and management. Major projects and quizzes make up most of the grade. Daily work and assignments each quarter will also contribute to the final grade.

0780 CHEMISTRY
10-11-12 1 credit unit (2 Semesters)
Prerequisite: Algebra I & Biology

Chemistry is the study of matter, its structure, properties and composition, and the changes that matter can undergo. It is a requirement for all pre-professional careers and many vocational and technical careers as well. This course is designed to meet the needs of the college-bound student. The emphasis on the development of thinking skills and the application of learned concepts will prove to be valuable for all students, not just for the student planning on a career in a science related field.

0781 PHYSICS
11-12 1 credit unit (2 Semesters)
Prerequisite: Algebra I & Biology

This course is a necessary requirement for pre-professional careers and many vocational and technical careers as well. This course is designed in such a way that it is of value to any student interested in the physical world. The course has a heavy lab emphasis and the topics that will be covered are motion, forces, energy, work, momentum, heat and waves.

0788 PRACTICAL APPLICATIONS IN SCIENCE
11-12 ½ credit unit (1 Semester)
Prerequisite: Foundations of Science I & II and Biology

This course will expose students to concepts in science dealing with energy, basic robotics, and content correlated to everyday daily science. Students will understand and apply knowledge of interactions of matter and energy, organization in living systems, energy in the earth system, and geochemical cycles while learning in an inquiry based classroom. This course is intended to allow students to make connections with science to the world they experience and understand how science is in their daily life. Students will understand and think critically and logically to make the relationship between evidence and explanations with science content.

0786 ADVANCED APPLICATIONS IN SCIENCE
12 1 credit unit (2 Semesters)
Prerequisite: Biology, Chemistry & Physics

This course is a project-based course designed to utilize and apply the knowledge learned in Biology, Chemistry, and Physics.

0790 ADVANCED CHEMISTRY
11-12 ½ credit unit (1 Semester)
Prerequisite: Chemistry

This would cover kinetics, nuclear chemistry, thermodynamics, solids and liquids, molecular structure and more in-depth gas laws. This class would be geared toward students who would want to enter a science related field.

Course Objectives:

- Quantitatively and qualitatively describe chemical interactions.
- Create, conduct, and analyze the laboratory experiments to engage and reinforce learning of concepts taught throughout the course.
- Demonstrate critical and independent thinking.

0791 ADVANCED BIOLOGY
11-12 ½ credit unit (1 Semester)
Prerequisite: Biology

Advanced Biology is a one term (9 week) course for students interested in further exploring biology. This is a course emphasizing biological research and analysis in preparation for college life science classes. The course pursues areas introduced in Biology in more depth and focuses on biotechnology, genetics, evolution, and current research in biology. The course is intended to be challenging and fast paced. The successful Advanced Biology student will be a self-motivated and hardworking individual who manages their time well. Students must complete Biology and Chemistry before taking Advanced Biology.

**0778 PHYSICAL SCIENCE I:
CHEMICAL INTERACTIONS**
11-12 .5 credit unit (1 Semester)

This is a fundamental course focusing on chemistry concepts preparing students to pursue high school chemistry and/or careers in chemistry related fields. Areas of study will include the periodic table of elements, physical and chemical properties of matter, atomic structure, and lab procedures.

0779 **PHYSICAL SCIENCE II:**
 PHYSICAL INTERACTIONS
9-10 .5 credit unit (1 Semester)

This is a fundamental course focusing on physics concepts preparing students to pursue high school physics and/or careers in physics related fields. Areas of study will include forces and motion, energy, light and electricity and magnetism.

SPECIAL EDUCATION DEPARTMENT

Special Education is divided into Levels I, II, and III as defined by each student's Individualized Education Program (IEP). Students must qualify for a specific level of special education through a formal evaluation and staff-in process. Each program is governed by local, state and federal guidelines. Credit earned in these programs can be applied toward graduation requirements. All courses may be taken multiple times per year and for multiple years depending on the individual needs of students. **Participation in these courses is based upon teacher and/or counselor recommendations and/or IEP goal areas.**

Level I Courses

0861 LEARNING LAB
9-10-11-12 ½ credit unit (1 Semester-Repeatable)
Prerequisite: IEP

Students in this class will utilize time by receiving 1:1 re-teaching of general education curriculum in identified IEP goal area.

Level II and III Courses

0857 STUDY SKILLS
9-10-11-12 ½ credit unit (1 Semester-Repeatable)
Prerequisite: IEP

Students will receive direct instruction in the areas of goal setting, time management, learning skills, listening skills, note taking, test taking, memory techniques and organization. Students will also utilize time by receiving 1:1 re-teaching of general education curriculum in identified IEP goal area.

0954 CAREER EXPLORATION
9-10-11-12 ½ Credit unit (1 Semester)
Prerequisite: IEP

This class is a general overview of the process involved in obtaining a desired career. Students will be made aware of different types of careers. Research will be done on careers of particular interest. Students will become more self-aware, clarify personal values and begin to look at aptitudes needed for success in particular careers.

0951 ADAPTIVE PE ½ credit unit
9-10-11-12 ½ Credit unit (1 Semester)
Prerequisite: IEP

Students unable to participate in regular PE will receive individual adaptive PE.

0852 ENGLISH FOR DAILY LIVING
9-10-11-12 ½ Credit unit (1 Semester)
Prerequisite: IEP

In this class, students will learn reading, writing and special skills needed in general adult life and in the business and work world. Positive attitudes toward work and employment will be stressed. The student will be taken through the whole process of gaining employment, from filling out the application form to the actual job interview. The student will also gain knowledge about skills needed to live an independent life.

0853 SOCIAL STUDIES FOR DAILY LIVING

9-10-11-12 ½ Credit unit (1 Semester)

Prerequisite: IEP

Students in this class will receive 9 weeks of Social Studies instruction in any of the following: US History, Iowa History, World History, or World Geography.

0854 MATH FOR DAILY LIVING

9-10-11-12 ½ Credit unit (1 Semester)

Prerequisite: IEP

This class is designed to teach consumer related concepts and skills as well as to maintain and improve basic math operations. It is designed to aid students in making appropriate consumer decisions as well as exposing them to pertinent consumer concerns. Application to real-life situations is highly emphasized.

0855 SCIENCE FOR DAILY LIVING

9-10-11-12 ½ Credit unit (1 Semester)

Prerequisite: IEP

This course is an introduction to general science. The course encompasses the following: introduction to biology, introduction to human biology, introduction to physical science, and introduction to earth and space science. General information related to appropriate grooming, social skills, nutrition and weather is also given.

0856 HOME EC FOR DAILY LIVING

9-10-11-12 ½ Credit unit (1 Semester)

Prerequisite: IEP

Life Skill areas of food preparation, food buying, meal planning and clothing care will be covered.

0858 PRACTICAL WORK EXPERIENCE

9-10-11-12 ½ Credit unit (1 Semester)

Prerequisite: IEP

The student will work at a paid or non-paid job, demonstrating the job-keeping skills of dependability and personal relations. Through job explorations, the student will be able to better define his or her post-graduation career goals.

SOCIAL STUDIES DEPARTMENT

This area of study has four courses that are required of all students: Freshman U.S. History, Sophomore World History, Junior Global Affairs and Senior Government. Elective opportunities are further available to all students.

Social Studies Courses

0880 **AMERICAN HISTORY**
9-10 1 credit unit (2 Semesters)

Students will study U.S. History during the 19th century through present time. An emphasis will be placed on the Depression and the United States' involvement in World War I and II, as well as the development of relations with other countries. This class is based on the understanding that history is a way of using the past to discover more about our country and ourselves. A variety of activities are used, with an emphasis placed on individual effort and group activity.

0882 **WORLD HISTORY**
10-11 1 credit unit (2 Semesters)

This course is designed to give students a background in the ancient civilizations of our world through present day. The progress of these civilizations will be studied through the 1700's. Other areas include the major world religions, the Middle Ages, the Renaissance, Reformation, the Enlightenment and the French Revolution, Industrialization, Western Imperialism, World War I, the Russian Revolution, World War II and the contemporary world. Evaluation will be done by tests, projects and daily work.

08841 **GLOBAL AFFAIRS**
11-12 ½ credit unit (1 Semester)

Global Affairs is a course that seeks to study the cultures and the important issues of the world. This course will focus on cultural geography, physical geography, and current events. Emphasis will also be placed on the issues of interdependence, globalization, third world poverty, and regional violence. The importance of these issues to the lifestyle and the future of the United States will be stressed.

0885 **GOVERNMENT**
11-12 ½ credit unit (1 Semester)

The philosophy and actual workings of our system of government will be analyzed and discussed. Major areas of study will include pre-Constitutional America, the Constitution and Bill of Rights, an in-depth study of each of the three branches of government, political parties, pressure groups, and elections.

Social Studies Electives

0886 **AMERICAN ISSUES**
11-12 ½ credit unit (1 Semester)

The course will center on group discussion of current American issues. The newspaper and Newsweek magazine will serve as major sources. Television newscasts such as 60 Minutes, Prime Time and 48 Hours will also be used as sources. Student initiative and participation will be the driving force of this course.

0889 **SELF-DEVELOPMENT**
9-10-11-12 ½ credit unit (1 Semester)

This class is designed to help students understand themselves better and appreciate others around them more. Basic psychological concepts will be used in helping students find out what is meaningful to them, their strengths as a person and their value as a human being. Students will be trained in listening skills, responsive communication and decision-making. Nearly all activities are group-oriented. Criteria for evaluation are class participation, attendance and completion of assignments.

08842 **ECONOMICS**
11-12 ½ credit unit (1 Semester)

U.S. and Global Economics is a comprehensive course that provides an introduction to key economic principles. Students gain an understanding of choices they must make as producers, consumers, investors, and taxpayers. They have ample opportunity to develop their points of view and apply what they learn to the promotion of civic action. Topics include an examination of markets from both a historic and current perspective; basics of supply and demand; study of the theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; the concept of money and how it evolved; the role of banks, investment houses and the Federal Reserve; Keynesian economics; the productivity, wages, investment and growth involved in capitalism; unemployment, inflations, and the national debt; and a survey of markets in areas such as China, Europe, and the Middle East.

0879 **MODERN AMERICA (1960-Present)**
10-11-12 ½ credit unit (1 Semester)

Considerations: This course is an elective that focuses on the history of the United States starting with the Vietnam War and ending with the modern day. Primary sources will be used and students will explore contemporary historical issues. Technology will be used for the research and presentation of information. Students will examine how the past forty to fifty years have shaped modern American.

WORKPLACE AND VOCATIONAL EXPERIENCE

0901 SERVICE LEARNING
11-12 ½ credit unit (1 Semester)
Prerequisite: Approval of Principal

Periods and Semesters arranged. The purpose of this directed study class is to develop and promote through actual experience and training the concept of service to others. Projects could range from work with individuals and work with groups, to planning large group activities and service projects in the school or community.

Student paperwork regarding their service learning Semester is due before the scheduled term of their assignment. Forms should be picked up in the office. Forms need approval from instructors and require prior planning from students. Students may not take more than 2 Semesters of service learning per year.

0902 SCHOOL TO WORK INTERNSHIP
11-12 ½ credit unit (1 Semester)
Students are required to apply for internship prior to the start of the quarter

Students in grades 11 and 12 may earn credits for a supervised internship. Students work with the Workplace Learning Connection to obtain internships in the local area. The Workplace Learning Connection coordinates the set-up and evaluation process. Students are required to complete journals, log hours and participate in 3 meetings during the term (held during the school day). Interns are required to log 90 hours of work time during the quarter. Summer opportunities are available. Application deadlines will be announced as they appear.

Students may not use current part-time employment as an internship opportunity. Internship descriptions are available at www.workplace-learning.org, click on Students, then Internships. Please see Mrs. Nesbitt in the School Counseling office if you are interested in this opportunity.

WORLD LANGUAGE

Spanish Department

Foreign language courses are excellent choices for the college-bound student, as most colleges recommend the study of two levels of a single foreign language in high school before admission to college. Depending upon a student's major area of study, many colleges also require an additional one or two years of study of a single foreign language as a college graduation requirement. This college foreign language graduation requirement could be fulfilled in high school with the successful completion of level I, II, III or IV, depending on the particular college requirement. Students also have the opportunity to earn college credit through the concurrent course offerings of Kirkwood Intermediate Spanish I and II. Each of these Kirkwood courses is the equivalent of 4 college credits. Upon successful completion of both courses, students will be well on their way to obtaining a Spanish minor in college. Not only is the study of Spanish a good preparation for the college-bound student, but it also prepares all students for working and living with the growing Hispanic population in our state and nation.

In keeping with our high school building technology goals, every level of Spanish incorporates the use of Rosetta Stone, an interactive language-learning software program. This computer program allows students to progress at their own individual pace, building their language skills through listening comprehension, speaking, reading, and writing activities. By monitoring their own progress, students are motivated to attain a higher level of proficiency.

Scheduling Recommendation:

Students are encouraged to enroll in 2 levels during their junior or senior year in order to qualify for the concurrent credit college level Spanish course.

0320 **SPANISH I**
9-10-11-12 1 credit unit (2 Semesters)

Spanish I students will learn the basic Spanish vocabulary and conversational techniques. Speaking, listening, reading and writing are stressed through a variety of classroom activities including: text readings and activities, native speaker audiotape activities, role playing, as well as, oral, listening comprehension and writing tests. In addition to the language skills, students will also explore cultural similarities and differences between the Hispanic world and their own. Respect of diversity in our school and our world is stressed throughout the course.

0321 **SPANISH II**
9-10-11-12 1 credit unit (2 Semesters)
Prerequisite Spanish I

Spanish II is a continuation of the study of the skills taught in Spanish I. Speaking and writing proficiency and the ability to clearly communicate are emphasized. The more difficult and complex aspects of the Spanish language are introduced – idiomatic uses, compound verb tenses and irregularities of the language.

0322 **SPANISH III**
10-11-12 1 credit unit (2 Semesters)
Prerequisite Spanish II

This class is a continuation of the Spanish I and Spanish II sequence of classes. In Spanish III a higher level of proficiency in all aspects of the language is developed, with particular emphasis placed on oral fluency. More emphasis is placed on using the Spanish language in class. Students compose and tell short stories in Spanish and view a Spanish teen mystery soap opera/miniseries. Technology is also utilized to explore Spanish language usage in real world contexts.

0323 **SPANISH IV**
10-11-12 1 credit unit (2 Semesters)
Prerequisite Spanish III

Spanish IV continues the development of a higher level of proficiency in the areas of listening, speaking, reading, writing, and culture. Communication in Spanish whenever possible is strongly encouraged. Spanish literature is read and discussed and a full length Spanish movie is viewed. Students publish an illustrated autobiography entitled “Yo Soy” (I am) which is a written application of the communication and grammar concepts studied in Spanish I, II, III, and IV.

Concurrent Credit Spanish Course Offerings

- Credit earned for both Benton Community High School and Kirkwood Community College
- Tuition paid and textbooks purchased by Benton Community School
- Class held at Benton Community High School
- College credit may be transferable to other colleges/universities

****FLS-231 INTERMEDIATE SPANISH I Concurrent College Credit- 4.0 credits**
11-12 ½ credit unit (1 Semester)
Prerequisite: Spanish IV

This course emphasizes communicating with others about daily life experiences, specific themes, as well as, activities aimed at expressing original ideas, by further developing fundamental Spanish language listening, speaking, reading and writing skills. Short literary readings and contemporary Spanish language newspapers and magazines provide a better understanding of various Hispanic cultures and current events. Advanced grammatical concepts are also studied in conjunction with an extensive increase in knowledge of vocabulary.

****FLS-232 INTERMEDIATE SPANISH II Concurrent College Credit- 4.0 credits**
11-12 ½ credit unit (1 Semester)
Prerequisite: Intermediate Spanish I

Students will continue to develop all communication skills using primarily materials from literature and contemporary newspapers and magazines aimed at providing a better understanding of the Hispanic and Latin cultures and pertinent current issues. Daily class activities include some grammar review and class discussions on various contemporary issues that promote spontaneous conversation.

*****Note: Kirkwood Community College Intermediate Spanish I and II are college courses, not high school courses. Students who qualify must be prepared to meet a different and higher expectation. For example, Kirkwood Community College policies apply to these courses, along with Benton Community building policies. The KCC policies for grading, attendance and late work are more demanding than for a typical high school course.***

Online High School Classes

Provided through Iowa Online Learning or Kirkwood Community College

Iowa Online Learning Options:

<http://www.iowalearningonline.org/courses.cfm>

Courses available:

If you would like course descriptions for each of these classes go to the link listed above.

English	Biology	Chinese II
English I	General Biology (CR)	French I
English II	Chemistry	French II
English III	Earth-Space Science	French III
English IV	Marine Science	French IV
Mathematics	Physical Science	German I
Algebra I	Physics	German II
Algebra II	Social Studies	Latin I
Pre-Calculus	Economics with Financial Literacy	Latin II
Calculus	Geography	Spanish I
Geometry	Psychology	Spanish II
Trigonometry	United States Government	Spanish III
Fine Arts	United States History	Spanish IV
Art History and Criticism	World History	Health/Physical Education
Science	World Languages	Health
Anatomy and Physiology	Chinese I	Personal Fitness

Kirkwood Community College High School Distant Learning:

<http://www.kirkwood.edu/site/index.php?p=33642>

If you would like course descriptions for each of these classes go to the link listed above.

Electives:	English & Literature:	Math:	Science:	Social Science:
<ul style="list-style-type: none"> • Art Appreciation • Career Planning • College and Career Preparation I • College and Career Preparation II • Family Living • Financial Literacy • French I • Health I • Health II • Music Appreciation • Physical Education • Spanish I 	<ul style="list-style-type: none"> • American Literature • Basic Composition • British & World Lit • Creative Writing • Critical Reading & Effective Writing • English Foundations I • English Foundations II • English Grammar • Introduction to Literature and Composition • Literature Independent Study • Literature Novels • Media Literacy • Reading Skills and Strategies • Writing Skills and Strategies 	<ul style="list-style-type: none"> • Algebra I • Algebra II • Consumer Math • Mathematics of Personal Finance • Math Foundations I • Math Foundations II • Fundamental Math • Geometry • Introductory Algebra • Precalculus • Probability & Statistics 	<ul style="list-style-type: none"> • Biology • Chemistry • Earth Science • Life Science • Physical Science • Physics • Science Foundations 	<ul style="list-style-type: none"> • Economics • Geography & World Cultures • Multicultural Studies • Psychology I • Psychology II • Sociology I • Sociology II • US Government I • US Government II • US History • World History

KIRKWOOD CLASSES **(Benton Classes, Shared Programs, or ICN)**

The following table is a comprehensive list of courses offered at Benton Community or through Benton Community partnerships. For specific course descriptions, please refer to the chart and the correct page. Additional details regarding college level courses or classes offered at a specific partner school can be directed to Mr. Cretin.

It is important to remember that any concurrent credit, PSEO or Kirkwood Academy course is a college level course. This means that the content will be more advanced, the pace will be quicker and the level of learning will be greatly dependent on student effort and engagement. The profile below, developed by Kirkwood Community College, is intended for the prospective student and their families to review in order to fully understand expectations for success in a concurrent credit course.

Profile of a High School Student Ready for College Level Courses at Kirkwood Community College

Academic Skills or Standing

- Demonstrates excellent reading and writing skills, or uses reading and writing accommodations effectively
- Completes all assignments by due date, including assigned reading
- Demonstrates self-motivation as a learner
- Applies classroom learning to cases, observations, and service learning
- Has a minimum cumulative GPA of 2.5 in academic courses
- Junior or senior status, or approval from the high school district

Personal Traits/Dispositions

- Demonstrates respect for others
- Demonstrates persistence
- Attends class (the entire class) every day unless there is a legitimate reason (illness, death in family, participation in required school activity, etc.)
- Exhibits intellectual curiosity and openness to new ideas
- Works well as part of a team
- Demonstrates honesty and ethical decision-making

Maturity

- Demonstrates self-advocacy & communication skills (communicates needs)
- Successfully manages academic, work, extracurricular & other commitments

Additional Understandings

- If the student has an IEP or 504 Accommodation Plan, student is encouraged to self-disclose this information to the Kirkwood instructor within the first week of classes.

Courses offered at Benton High School

Course Name	Department
Digital Imaging	Art
Introduction to Computers	Business and Technology
Fundamentals of Web Programming	Business and Technology
Introduction to Engineering Design	Engineering
Principles of Engineering	Engineering
Digital Electronics	Engineering
Biotechnical Engineering	Engineering
Civil Engineering	Engineering
Composition I	English
Composition II	English
Fundamentals of Oral Communication	English
Intermediate Spanish I	World Language (Spanish)
Intermediate Spanish II	World Language (Spanish)
Health Science Academy - Professionals in Health - Nurse Aide - Medical Terminology - Exploration in Healthcare	Kirkwood Classes
Metal Fabrication Academy	Kirkwood Classes
Auto Collision	Kirkwood Classes
Auto Technology - Automotive Electricity - Introduction to Automotive Technology - Industrial Math I	Kirkwood Classes
Introduction to Psychology	Kirkwood Classes
Developmental Psychology	Kirkwood Classes
Introduction to Sociology	Kirkwood Classes

*****Note: Kirkwood Community College courses are college-level courses. Students who qualify must be prepared to meet a different and higher expectation. For example, Kirkwood Community College policies apply to these course, along with Benton Community building policies. The KCC policies for grading, attendance and late work are more demanding than for a typical high school course.***

****0948 METAL FABRIACATION ACADEMY**
 12 2 credit units (4 Semesters)
Prerequisite: Algebra I

Concurrent College Credit- 10.0 credits
Location: Kirkwood –Cedar Rapids Campus

Metal Fabrication academy combines welding and advanced manufacturing into a single academy course. Students are introduced to the elements of welding, including cutting and basic fabrication. Students are also introduced to basic machine operations.

Course No.	College Credit Classes/Descriptions	College Credit
WEL-331	Fundamentals of Welding Covers basic welding techniques with oxyacetylene and electric welders. Designed for the general tradesperson working in the areas of mechanics and automotive technology. Students are introduced to a variety of welding situations including cutting, brazing and various welding positions on lighter gauges of metal and basic fabrication.	2.0
WEL-156	Welding Skills I Includes introductory concepts and theories in shielded metal arc welding. Students learn welding techniques for weaving and flat position fillet welds. Oxyacetylene torch and plasma cutter operation are also covered.	4.0
MFG-222	Machine Operations I 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 processes to produce a product.	4.0
Total college credits		10.0

****CRR-820 AUTOMOTIVE COLLISION TECHNOLOGY**
 12 1 credit unit (2 Semesters)
Prerequisite: Algebra I

Concurrent College Credit- 3.0 credits
Location: Kirkwood-Vinton Center

The Automotive Collision Technology option allows students to explore automotive collision careers and learn some of the basic entry-level skills needed for the automotive collision repair industry. Learn the proper care and use of industry materials, supplies, hand and power tools, and the protective measures that must be taken for proper tool use and storage. Students also learn the basic steps, skills and methods in applying fillers and replacing panels and trim. Basic welding and cutting skills used in automotive collision repair are addressed. Students do not need to supply tools or vehicles to work on to participate in this option.

Course No.	College Credit Classes/Descriptions	College Credit
CRR-820	Metal Working and Refinishing Practices This course covers general body construction, along with body alignment and general metal techniques with an emphasis on use of body fill material. The course provides students with an overview of glass and trim replacement, along with the relationship between body and frame automotive components. The course also covers some introductory spot preparation and painting techniques.	3.0

****0946** **AUTOMOTIVE TECHNOLOGY** **Concurrent College Credit- 12.0 credits**
 12 2 credit units (4 Semesters)
Prerequisite: Algebra I **Location:** Kirkwood-Vinton Center

In this academy, students learn the basic skills needed to service and maintain today's sophisticated automobiles. Program courses are aligned with the National Institute of Automotive Service Excellence, the National Automotive Technician Education Foundation, and the Automotive Service Excellence standards.

Course No.	College Credit Classes/Descriptions	College Credit
AUT-104	Intro to Automotive Technology 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.	3.0
MAT-715	Industrial Math I Covers basic math skills such as addition, subtraction, multiplication and division of whole numbers, decimals, and fractions. Covers specifically dimensional analysis and significant digit concepts. Also gives practice and solving stated problems and covers introductory algebra concepts.	3.0
AUT-611	Automotive Electricity Introduces electrical and electronic circuit theory. Covers voltage, amperage, resistance, Ohm's Law and practical application on series, parallel and series-parallel circuits. Emphasizes studying circuits through electrical wiring diagrams and introduces scan tools and digital storage oscilloscopes. Covers diagnosis of electrical circuits with an without multiplex network control. Includes certification as power users of the Snap-On 525D multi-meter.	5.0
Total college credits		11.0

****PSY-111** **INTRODUCTION TO** **Concurrent College Credit- 3.0 credits**
PSYCHOLOGY
 11-12 1 credit unit (1 Semester) **Location:** Benton High School

The goal of this course is to provide students with an overview and general understanding of the field of psychology. This course should serve as a base from which you can extend your knowledge through taking more specialized psychology and courses in related fields. The emphasis is three-fold. The terminology and content of the field will be covered. Topics include nervous system functioning; learning and memory; thinking and perception; motivation and emotion; intelligence and assessment; personality and social psychology; human development; psychological disorders; and treatment. The scientific methodology, which is the foundation of psychology, will be explained and utilized throughout the course. Finally, students will acquire resources for extending their knowledge of the field and avenues for personal growth.

****SOC-110** **INTRODUCTION TO** **Concurrent College Credit- 3.0 credits**
SOCIOLOGY
 11-12 1 credit unit (1 Semester) **Location:** Benton High School

This course identifies sociological principles and concepts used in the analysis of social systems, and explores the contributions to contemporary sociology from various fields including anthropology, philosophy, history and social psychology.

****KW101** **HOW COLLEGE WORKS** **Concurrent College Credit- 3.0 credits**
 12 1 credit unit (1 Semester) **Location:** Benton High School

We will be teaching a College Level Class called "How College Works." This course is intended to prepare 12th graders for a successful transition to college.

Online Kirkwood College Classes

To see course descriptions go to this link <http://www.kirkwood.edu/site/index.php?p=35816#Top>

FA = Fall SP = Spring SU = Summer

Agricultural Science

Principles of Agronomy FA SP SU
 Fundamentals of Soil Science FA SP
 Intro to Technical Chemistry FA SP
 Ag Applications of GIS FA

Arts & Humanities

Cultural Anthropology FA SP SU
 Art Appreciation FA SP SU
 Digital Photography FA SP
 Art History I FA SP SU
 Art History II FA SP
 Communication and Culture FA SP
 Workplace Communications FA SP SU
 Film Analysis SP SU
 Film Topics FA SP
 Working in America FA SP SU
 Encounters in Humanities FA SP SU
 U.S. Film History FA
 World Film History FA SP
 Popular Culture FA SP SU
 Culture and Technology FA SP
 Music Appreciation FA SP SU
 Basic Reasoning SU
 Survey of World Religions FA SP SU
 Fundamentals of Oral Communication FA SP SU
 Interpersonal Communication SP

Business

Financial Accounting FA SP SU
 Managerial Accounting FA SP SU
 Orientation to Business Professionalism FA SP
 Introduction to Business FA SP SU
 Business Law I FA SP SU
 Fundamentals of Lean FA SP
 Process Improvement FA SP
 Business Administration Capstone SU
 Principles of Management FA SP SU
 Project Management Basics FA SP SU
 Project Management Tools FA SP
 Principles of Supervision FA SP SU
 Integrated Project Management SP SU
 Human Resource Management FA SP SU
 Human Resource Strategies and Tools FA SP SU
 Introduction to Global Trade SP
 Global Business Skills FA SP
 Introduction to Entrepreneurship FA SP SU
 Management Capstone FA SP SU
 Business Plans for Entrepreneurs SP
 Principles of Marketing FA SP SU
 International Marketing SP

Career Options

Introduction to Criminal Justice FA SP SU
 Ethics in Criminal Justice SU
 Criminal Law FA
 Criminal Investigation FA
 Juvenile Delinquency SP
 Behavior Management SU
 Inclusion and Adaptation FA
 Transition Services SP
 Substance Abuse and Treatment SU
 Mass Media FA SP SU

English

Elements of Writing FA SP SU
 Composition I FA SP SU
 Composition II FA SP SU
 Composition II: Technical Writing FA SP SU
 Creative Writing SP
 Creative Writing: Poetry FA
 Forms of Literature: Nonfiction FA SP SU
 Forms of Literature: Drama FA SP
 Forms of Literature: Fiction FA SP SU
 Forms of Literature: Poetry FA SP SU
 Literature and Culture:
 American Dreams FA SP SU
 College Reading FA SP SU

Health Science

Dental Terminology FA SP SU
 Introduction to Medical Coding FA
 Advanced Coding and Classification SP
 CPT-4 Coding SU
 Reimbursement Methods SU
 Health Information Systems FA
 Introduction to Health FA
 Information Technology FA
 Legal Aspects of Health Information FA
 Quality Improvement FA
 Health Statistics SP
 Health Management and Supervision SP
 Medical Office Management SP
 Professionals in Health FA SP
 Medical Terminology FA SP SU
 Basic Medical Terminology FA SP SU
 Elements of Pharmacology FA SP
 Introduction to Pathology SP SU
 Professionalism in FA
 Medical Transcription FA
 Medical Transcription FA
 Career Medical Transcription SP
 Occupational Therapy FA
 Assistant Medical Terminology FA
 Pharmacology for the
 Surgical Technologist SP SU
 Biomedical Sciences for
 Surgical Technology SP SU

History		Mathematics	
Ancient Mediterranean World	FA SP SU	Preparation for College Mathematics	FA SP SU
Europe in the Age of Monarchy	FA SU	Intermediate Algebra	FA SP SU
Europe in the Age of Revolution	SP	Survey of Mathematics	FA SP SU
Europe in the Age of Nationalism	SP	Mathematics and Society	FA SP SU
Modern World Military History	FA SP	Statistics	FA SP SU
U.S. History to 1877	FA SP SU	Algebra Mastery 1	FA SP SU
U.S. History Since 1877	FA SP SU	Algebra Mastery 2	FA SP SU
Holocaust and Genocide in Memory and Literature	FA SP	Introduction to Math	FA SP SU
Hospitality		Science	
Sanitation and Safety	FA	Introductory Biology With Lab	FA SP
Hospitality Law	FA	Basic Biological Concepts	FA SP SU
		Nutrition	FA SP SU
		Human Biology	FA SP SU
Industrial Technology / Fire Science		Basic Anatomy and Physiology	FA SP SU
History and Philosophy of the Fire Service	FA SP	Basic Microbiology	FA SP
Building Construction	SP	Microbes and Society	FA SP SU
Fire Behavior and Combustion	FA	Human Evolution	FA SP
Fundamentals of Fire Prevention	SP	Introduction to Chemistry	FA SP SU
Fire Detection and Suppression Systems	FA	Environmental Science	FA SP SU
Principles of Emergency Services	FA SP	Techniques and Theory of Coaching	FA SP
Fire & Emergency Services Safety & Survival	SP	Introduction to Astronomy	FA SP SU
		Evolution of the Earth	FA SP SU
Industrial Technology / Water Technology		Social Science	
Wastewater Treatment: Industrial	SP	Understanding Cultures: Latin America	FA SP
Water Analysis	SP	Understanding Cultures: Modern Japan	FA
Basic Mechanical Maintenance and Pumps	FA SU	Principles of Macroeconomics	FA SP SU
Water Treatment I	SP	Principles of Microeconomics	FA SP SU
Water Distribution Systems	SP	American National Government	FA SP SU
Wastewater Collection Systems	FA	Introduction to Psychology	FA SP SU
Wastewater Treatment I	FA	Developmental Psychology	FA SP SU
Wastewater Analysis	FA	Abnormal Psychology	FA SP
Wastewater Treatment II	SP	Social Psychology	FA SP
Water Treatment II	FA	Human Sexuality	FA SP
Permits and Administration	SU	Introduction to Sociology	FA SP SU
		Social Problems	FA SP SU
Information Technology		Marriage and Family	FA SP SU
Introduction to Keyboarding	FA SP SU	Sociology of the Environment	FA
Professionalism in the Workplace	FA		
Microcomputer Literacy	FA SP SU	Student Services	
Intermediate Computer Business Applications	FA SP SU	Career Decision Making	FA
Professionalism: Business Competition	SP		
Introduction to Computers	FA SP SU		

Kirkwood “WebLive” Courses

These courses are "Web Live" courses, which means that they can be taken online in any place that you have internet access. These classes will be offered over Weblive (Zoom) and will run 16 weeks each semester, respectively. Please read below for the new course descriptions and anticipated schedule.

CRJ-100 Introduction to Criminal Justice

1 Credit Unit (3 College Credits)

Provides an overview of the American criminal justice system and examines the process of justice administration through the agencies of law enforcement, courts and corrections. Credits: 3, Hours: (3/0/0/0), Arts & Sciences Elective Code: A

ENG-101 Elements of Writing

1 Credit Unit (3 College Credits)

Develops students' fluency in communication and clarity in thinking through writers' notebooks, expository writing, analytical reading and listening. Students use structured assignments to explore personal goals and values, exercising skills needed for reasoning and writing across the curriculum. Credits: 3, Hours: (3/0/0/0), Prereq: Qualifying placement score; Arts & Sciences Elective Code: A

SDV-170 Career Decision Making (3)

1 Credit Unit (3 College Credits)

Provides an understanding of the career development process, and assists students in making satisfactory career choices. Includes self-assessment, career information research, decision making and job search strategies. Credits: 3, Hours: (3/0/0/0), Arts & Sciences Elective Code: A

SDV-105 How College Works (3)

1 Credit Unit (3 College Credits)

Explores individual strengths, strategies for solidifying personal responsibility, college readiness/academic success strategies, career readiness/vocational goals for students as they identify a college program or major. Emphasizes differences between high school and college expectations. Identifies appropriate career areas. Offers aids in taking and using placement tests for college admission and personal financial management. Credits: 3, Hours: (3/0/0/0), Arts & Sciences Elective Code: A

Fall	Earlybird 7-7:50	First Period:8:00-8:55
MWF	Psych - ICN	Career Decision Making - Weblive
	7:30-9:00	
T/Th	Intro to Crim Justice - Weblive	
Spring	Earlybird 7-7:50	First Period:8:00-8:55
MWF	Intro to Sociology - ICN	Elements of Writing - Weblive
	7:30-9:00	
T/Th	How College Works - Weblive	

DRIVER'S EDUCATION

0999 DRIVER SAFETY EDUCATION

9-10-11-12

A student must have a valid Iowa Instruction Permit when the course begins. It is strongly recommended that the student have the Instruction Permit and do some fundamental driving for at least two months before the class begins. Under the Iowa Driver's 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's Education. If the course has been successfully completed, the minimum age is 16 years.

The student must successfully complete a minimum of thirty (30) clock hours of classroom instruction and six (6) clock hours of behind-the-wheel instruction.

Students will be evaluated in the following manner:

- A. Classroom
Chapter tests and assignments/projects at the Instructor's discretion.
- B. Behind the wheel
Students will be evaluated based on their skills and judgment as shown throughout the driving experience.

Driver's Education is offered to students during the months of May, June and July and again during the months of August, September and October. Announcements for driver's education registration are announced in our daily announcements. This class does not meet during the regular school day.

Career Clusters

The following career cluster charts are provided to you as a tool for planning and exploration. Please use the information and the courses listed as a way to develop 4-year plans with a specific career path in mind. Each of the 16 career clusters offers suggested courses for career preparation and exploration. The courses listed are only suggestions and are not required for admittance to programs. Students are encouraged to explore a variety of areas.

***Please note: *These charts are guides only. When selecting courses for your high school career, consider courses that Interest you, provide Career Exploration, or Career Preparation. You should not take a course just because it is listed, nor should you elect not to take a course because it is not listed.*

The core academic suggestions for each career cluster are generally the same. These core academic suggestions are listed below. Elective course suggestions for each career cluster are listed on subsequent pages.

<i>English/Language Arts</i> (4year college entrance- 4 years or 8 Semesters)	Required English Courses
<i>Math</i> (4 year college entrance– 3 years or 6 Semesters through Algebra II)	4 years of the following: Pre-Algebra; Algebra I; Geometry; Algebra II; Pre-Calc; Calculus; Senior Apps in Math
<i>Science</i> (4 year college entrance– 3 years or 6 Semesters including 2 of these 3: biology, chemistry; physics)	3 years + of the following: Integrated Science; Biology; Chemistry; Physics; Environmental Science; Human Biology
<i>Social Studies</i> (4 year college entrance– 3 years or 6 Semesters)	Required Social Studies Courses
<i>Foreign Language</i> (4 year college entrance—2+ years of a single foreign language)	Spanish

Agriculture, Food & Natural Resources

Careers that deal with producing, marketing, distributing, and developing natural resources and food commodities. Commodities and resources include: Food (grown and produced); Fibers, Wood, Natural Resources, Plants, and Animals (wild and domesticated).

Career Pathways (sub-categories with in this career cluster)	Food Products & Natural Resources	Plant Systems	Animal Systems	Power, Structural & Technical Systems	Natural Resource Systems	Environment Service Systems	Agribusiness Systems
Sample Careers (Careers listed may fall into more than 1 category)	Produce Buyer; Meat Cutter; Food Scientist;	Botanist; Greenhouse Manager; Farmer; Rancher	Vet; Vet Tech; Wildlife Biologist; Livestock Producer	Ag Engineer; Wastewater Treatment Operator; Machinist; Welder	Forster; Geologist; Fish & Game Officer; Ranger	Sanitation Worker; Hazmat; Water Quality; Recycler	Commodity Broker; Feed & Supply Store Manager

If you are interested in this career cluster, consider some or all of the courses below.

<i>Electives</i> (Courses that explore and prepare)	<u>Agriculture</u>	<u>Business/Tech</u>	<u>FCS</u>	<u>Industrial Tech</u>	<u>PE/Health</u>	<u>PSEO</u>
	- Ag Ed I - Ag Ed II - Ag Ed III - Ag Ed IV - Ag Ed V	-Comp. Tech -Comp. Apps I -Comp. Apps II -Intro to Business -Accounting I -Business Law	- Foods & Nutrition I & II	- Intro to Tech - Intro to Construction -Intro to Man. - Metals - Electricity	-Physical Health and Safety -Preventive Health	-Intro to Psych -Adv. Man. -Auto Tech.

Architecture and Construction

Careers that deal with designing, managing, building, and maintaining buildings, homes, and other structures

Career Pathways (sub-categories with in this career cluster)	Design/Pre-Construction	Construction	Maintenance
Sample Careers (Careers listed may fall into more than 1 category)	Architect; Drafter; Surveyor; Code Official; Regional & Urban Planner;	Plumber; Carpenter; Welder; Electronics Installer; Construction Manager; General Contractor; Electrician	Facilities Engineer; Safety Director; Groundskeeper

If you are interested in this career cluster, consider some or all of the courses below

<i>Electives</i> (Courses that explore and prepare)	<u>Art</u>	<u>Business/Tech</u>	<u>Engineering</u>	<u>Industrial Tech</u>	<u>PE/Health</u>	<u>PSEO</u>
	-2D Art -3D Art -Drawing -Painting	-Comp. Tech -Comp. Apps I -Comp. Apps II -Intro to Business -Accounting	-Intro to Eng. Design -Principles of Engineering -Digital Electronics -Civil Engineering	- Intro to Tech - Intro to Construction -Intro to Man. -Intro to Drafting - Metals - Electricity -Cabinetmaking -CAD/CAM -Adv CAD/CAM	-Physical Health and Safety -Preventive Health	-Adv. Manufacturing

Arts, Audio/Visual Technology and Communications

Careers that deal with designing, producing, performing and writing multimedia content (TV, Movies, Print Media, Radio). Careers may also deal with the visual arts (drawing, painting, photography), design (interior, landscape), journalism (newspaper, magazines, TV) and entertainment.

Career Pathways (sub-categories with in this career cluster)	Audio/Visual Technology & Film	Printing Technology	Visual Arts	Performing Arts	Journalism & Broadcasting	Telecommunication s
Sample Careers (Careers listed may fall into more than 1 category)	Audio/Visual Technicians; Video Graphics; Special Effects	Desktop Publisher; Webpage Designer; Printer	Photographer; Graphic Artist; Fashion Designer; Interior Designer	Production Manager; Actor; Script Writer; Stagehand; Musician	Radio/TV Announcer; Production Technician; Publisher	Telecommunications Technician; Cable Installer

If you are interested in this career cluster, consider some or all of the courses below.

	<u>Art</u>	<u>Business/Tech</u>	<u>Engineering</u>	<u>FCS</u>	<u>Music</u>	<u>Social Studies</u>
Electives (Courses that explore and prepare)	-2D Art -3D Art -Drawing -Painting -Digital Imaging -Photography -Illustrator -Adv. Photo	-Comp. Tech -Comp. Apps I -Comp. Apps II -Web Programming -Marketing	-Digital Electronics <u>English</u> -Fund. Of Oral Comm. -Theater Arts -Journalism- Yearbook	- Foods & Nutrition I & II -Beginning Textiles -Adv. Textiles -Work & Fam. Relationships	-Choir -Band	-Self- Development <u>PSEO</u> -Intro to Psych -Intro to Computers

Business, Management & Administration

Careers that deal with the operation and support of businesses, including careers that offer planning, organizing, managing, and evaluating business functions.

Career Pathways (sub-categories with in this career cluster)	General Mgmt.	Business Information Mgmt.	Human Resources Mgmt.	Operations Mgmt.	Administrative Support
Sample Careers (Careers listed may fall into more than 1 category)	CEO; HR Manager; Business Owner	Technology Officer; Information Systems Analyst; Accountant	Meeting Planner; Controller; Training & Development Mgr.	Marketing; Sales Rep; Warehouse Technician; Retail Buyer	Paralegal; Office Mgr.; Administrative Asst.; Data Entry Technician

If you are interested in this career cluster, consider some or all of the courses below.

	<u>Art</u>	<u>Business/Tech</u>	<u>English</u>	<u>FCS</u>	<u>Social Studies</u>
Electives (Courses that explore and prepare)	-	-Comp. Tech -Comp. Apps I -Comp. Apps II -Intro to Business -Accounting I & II - Web Design -Marketing -Business Law	-Fund. Of Oral Comm. -Journalism- Yearbook	- Teen Issues -Work & Fam. Relationships -Independent Living <u>PE/Health</u> -Physical Health and Safety	-Self-Development <u>PSEO</u> -Intro to Psych -Intro to Sociology -Intro to Computers

Education and Training

Careers that deal with teaching and training of adults and children. Careers in this cluster also provide support to those who are directly teaching and training.

Career Pathways (sub-categories with in this career cluster)	Administration & Administrative Support	Professional Support Services	Teaching and Training
Sample Careers (Careers listed may fall into more than 1 category)	Administrator; Principal; Superintendent; Curriculum Developer/Director; Assessment/Testing Specialist	Counselor (School; Career); Social Worker; Speech- Language Pathologist; Audiologist; Special Education Consultant	Child Care Worker; Coach; College/University Professor; Teacher; Human Resource Trainer; Computer Trainer

If you are interested in this career cluster, consider some or all of the courses below.

<i>Electives</i> (Courses that explore and prepare)	<u>Business/Tech</u>	<u>English</u>	<u>FCS</u>	<u>PE/Health</u>	<u>Social Studies</u>
	-Comp. Tech -Comp. Apps I -Comp. Apps II -Intro to Business	-Fundamentals of Oral Communication -Theater Arts	-Teen Issues -Child Dev. I -Child Dev. II -Independent Living	-Physical Health and Safety -Preventative Health	-Self-Development PSEO -Intro to Psychology -Intro to Sociology

Finance

Careers that deal with the operation and support for business and personal financial services, including banking, investing, insuring, and financial management.

Career Pathways (sub-categories with in this career cluster)	Securities & Investments	Business Finance	Banking Services	Insurance
Sample Careers (Careers listed may fall into more than 1 category)	Stock Brokers; Tax Preparation Specialists; Investment Advisors;	Accountants; Auditors; Economists; Collectors; Financial Analysts	Loan Officers; Tellers; Title Researchers; Debt Counselors; Account Reps.	Underwriters; Claims Reps.; Customer Service Reps; Appraisers; Actuaries

If you are interested in this career cluster, consider some or all of the courses below.

<i>Electives</i> (Courses that explore and prepare)	<u>Business/Tech</u>	<u>English</u>	<u>FCS</u>	<u>PE/Health</u>	<u>Social Studies</u>
	-Comp. Tech -Comp. Apps I -Comp. Apps II -Intro to Business -Accounting I & II -Marketing -Business Law	-Fund. Of Oral Comm.	- Teen Issues -Work & Fam. Relationships -Independent Living	-Physical Health and Safety	-Self-Development PSEO -Intro to Psych -Intro to Sociology - Intro to Computers

Government & Public Administration

Careers that deal with the functions of government at local, state and national level, including National Security; Foreign Service; Urban Planning; Revenue and Taxation and Regulation

Career Pathways (sub-categories with in this career cluster)	Governance	National Security	Foreign Service	Planning	Revenue and Taxation	Regulation	Public Mgmt & Admin.
Sample Careers (Careers listed may fall into more than 1 category)	Governor; Legislator; Lobbyist	Combat Operation; CIA; FBI	Ambassador; Consulate	Census Clerk; Dev. Coord.; Urban Planner	IRS Agent; Tax Auditor; Assessor	Border Inspector; Code Inspector;	City Manager; County Clerk; Chamber of Commerce

If you are interested in this career cluster, consider some or all of the courses below.

<i>Electives</i> (Courses that explore and prepare)	<u>Business/Tech</u> -Comp. Tech -Comp. Apps I -Comp. Apps II -Intro to Business -Accounting I & II -Business Law -Marketing /Management	<u>Engineering</u> -Civil Engineering -Digital Electronics <u>English</u> -Fund. Of Oral Comm.	<u>FCS</u> - Teen Issues -Work & Family Rel. -Independent Living	<u>Industrial Tech</u> - Intro to Tech - Intro to Construction -Intro to Man. - Electricity	<u>PE/Health</u> -Physical Health and Safety -Preventive Health	<u>Social Studies</u> -Self Dev. -American Issues <u>PSEO</u> -Intro to Psych -Intro to Soc.
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Health Sciences

Careers that deal with the operation and support of businesses, including careers that offer planning, organizing, managing, and evaluating business functions.

Career Pathways (sub-categories with in this career cluster)	Therapeutic Services	Diagnostic Services	Health Informatics	Support Services	Biotechnology Research and Development
Sample Careers (Careers listed may fall into more than 1 category)	Physician; Dentist; Home Health Aide; Pharmacy Tech; Nurse	Lab Tech; Speech Pathologist; Optometrist; Radiologist	Patient Advocate; Health Educator; Medical Coder; Information Privacy Officer	Community Health; Food Safety; Counselor; Nurse Educator	Pharmaceutical Sales; Clinical Trial Mgr.; Biochemist; QA Tech; CSI

If you are interested in this career cluster, consider some or all of the courses below

<i>Electives</i> (Courses that explore and prepare)	<u>Business/Tech</u> -Comp. Tech -Comp. Apps I -Comp. Apps II -Intro to Business	<u>Engineering</u> -Biotechnical Engineering <u>English</u> -Fund. Of Oral Comm.	<u>FCS</u> - Teen Issues -Work & Fam. Relationships -Child Dev. I & II	<u>PE/Health</u> -Physical Health and Safety -Preventive Health -Health Sciences Academy	<u>Social Studies</u> -Self-Development <u>PSEO</u> -Intro to Psych -Intro to Sociology
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Hospitality and Tourism

Careers that deal with services for the tourism or hospitality industry, including restaurants; hotels, motels, spas, resorts; tourist attractions; recreational events and travel services

Career Pathways (sub-categories with in this career cluster)	Restaurant & Food/Beverage Services	Lodging	Travel & Tourism	Recreation, Amusements & Attractions
Sample Careers (Careers listed may fall into more than 1 category)	Chef; Restaurant Mgr.; Host; Caterer; Dietitian; Food/Beverage Server	Hotel Mgr.; Front Desk Attendant; Housekeeper; Reservations Director	Travel Agent; Meeting Planner; Tourism Director; Visitor Center Attendant	Theme Park Attendant; Club Manager; Park Security; Promotional Director

If you are interested in this career cluster, consider some or all of the courses below.

<i>Electives</i> (Courses that explore and prepare)	<u>Art</u> -Illustrator I -Photography -Adv. Photo	<u>Business/Tech</u> -Comp. Tech -Comp. Apps I -Comp. Apps II -Intro to Business -Accounting -Webpage Design -Marketing	<u>English</u> -Fund. Of Oral Comm. -Theater Arts	<u>FCS</u> -Foods/Nutrition I & II -Creative Foods -Teen Issues -Work & Fam. Relationships -Independent Living	<u>PE/Health</u> -Physical Health and Safety <u>Social Studies</u> -Self-Development -American Issues <u>PSEO</u> -Intro to Psych -Intro to Sociology - Intro to Computers
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Human Services

Careers that deal with providing support and services to families and individuals who are in need or require assistance.

Career Pathways (sub-categories with in this career cluster)	Early Childhood Development and Services	Counseling & Mental Health Services	Family & Community Services	Personal Care Services	Consumer Services
Sample Careers (Careers listed may fall into more than 1 category)	Daycare Director; Teacher Assistant; Pre-school Teacher	Marriage Counselor; Career Counselor; Director of Psychology	Employment Counselor; Human Services Director; Social Worker	Cosmetologists; Funeral Home Director; Massage Therapist	Market Researchers; Event Specialists; Credit Counselors

If you are interested in this career cluster, consider some or all of the courses below.

<i>Electives</i> (Courses that explore and prepare)	<u>Business/Tech</u> -Comp. Tech -Comp. Apps I -Comp. Apps II -Intro to Business -Marketing	<u>English</u> -Fund. Of Oral Comm.	<u>FCS</u> - Teen Issues -Work & Fam. Relationships -Child Dev. I & II -Beginning Textiles	<u>PE/Health</u> -Physical Health and Safety -Preventive Health -Health Sciences Academy	<u>Social Studies</u> -Self-Development <u>PSEO</u> -Intro to Psych -Intro to Sociology
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Information Technology

Careers that deal with support, design, and management of computer hardware, software, multimedia, and networks

Career Pathways (sub-categories with in this career cluster)	Network Systems	Information Support and Services	Web and Digital Communications	Programming & Software Development
Sample Careers (Careers listed may fall into more than 1 category)	Network Administrator; PC Technician; Information Systems Operator; Technical Support	Database Administrator; Desktop Publisher; Tester;	Animator; Media Specialist; Web Designer; Audio/Visual Engineer	Programmer; Business Analyst; Software Engineer

If you are interested in this career cluster, consider some or all of the courses below.

	<u>Art</u>	<u>Business/Tech</u>	<u>Engineering</u>	<u>English</u>	<u>PSEO</u>
Electives (Courses that explore and prepare)	-2D Art -3D Art -Drawing -Painting -Digital Imaging -Photography -Illustrator I	-Comp. Tech -Comp. Apps I -Comp. Apps II -Intro to Business -Accounting -Web Prgramming	-Intro to Engineering Design -Digital Electronics	-Fund. Of Oral Comm.	-Intro to Psych - Intro to Computers

Law, Public Safety, Corrections & Security

Careers that deal with providing and managing services in the legal and criminal justice fields; including, legal services, public safety, police, national and homeland security.

Career Pathways (sub-categories with in this career cluster)	Correction Services	Emergency and Fire Management Services	Security and Protective Services	Law Enforcement Services	Legal Services
Sample Careers (Careers listed may fall into more than 1 category)	Warden; Jailer; Parole Officer; Youth Case Manager	EMT; Paramedic; Firefighter; First Responder; Emergency Dispatcher	Security Guard; Loss Prevention Specialist; Private Investigator; Personal Security	Animal Control Officer; Park Ranger; Sheriff; Police Officer	Attorney; Judge; Law Clerk; Court Reporter; Mediator

If you are interested in this career cluster, consider some or all of the courses below.

	<u>Business/Tech</u>	<u>English</u>	<u>FCS</u>	<u>PE/Health</u>	<u>Social Studies</u>
Electives (Courses that explore and prepare)	-Comp. Tech -Comp. Apps I -Comp. Apps II -Intro to Business -Marketing -Business Law	-Fund. Of Oral Comm.	- Teen Issues -Work & Fam. Relationships -Child Dev. I & II	-Physical Health and Safety -Preventive Health -Health Sciences Academy	-Self-Development <u>PSEO</u> -Intro to Psych -Intro to Sociology

Manufacturing

Careers that deal with creating and producing goods for consumers

Career Pathways (sub-categories with in this career cluster)	Production	Man. Production Process Dev.	Maintenance , Installation, & Repair	Quality Assurance	Logistics & Inventory Control	Health Safety & Environmental Assurance
Sample Careers (Careers listed may fall into more than 1 category)	Assembler; Machine Operator; Sheet Metal Worker	Design Engineer; Inspector; Production Mgr.	Facility Maintenance; Electrician; Computer Technician	Lab Technician; Process Control Tech	Material Handler; Shipping/Receiving Clerk; Freight Mover	Safety Engineer; Safety Coordinator; Environmental Engineer

If you are interested in this career cluster, consider some or all of the courses below.

	<u>Art</u>	<u>Business/Tech</u>	<u>Engineering</u>	<u>Industrial Tech</u>	<u>PE/Health</u>	<u>PSEO</u>
<i>Electives</i> (Courses that explore and prepare)	-2D Art -3D Art -Drawing	-Comp. Tech -Comp. Apps I -Comp. Apps II -Web Programming	-Intro to Engineering Design -Principles of Engineering -Digital Electronics -Biotechnical Engineering	- Intro to Tech - Intro to Construction -Intro to Man. -Intro to Drafting - Metals - Electricity -Cabinetmaking -CAD/CAM -Adv CAD/CAM	-Physical Health & Safety -Preventive Health	-Intro to Psych -Metal Fabrication -Auto Tech

Marketing

Careers that deal with marketing services and products to consumers in order to reach business objectives

Career Pathways (sub-categories with in this career cluster)	Marketing Management	Professional Sales	Merchandising	Marketing Communications	Marketing Research
Sample Careers (Careers listed may fall into more than 1 category)	CEO; Business Owner; Technical Support	Inbound Sales Reps; Sales Reps; Field Agents; Account Executives	Store Managers; Retail Buyers; Retail Clerks;	Advertising Managers; Public Relations; Public Information Director; Copywriters	Brand Managers; Research Associates; Product Planners; Customer Satisfaction Managers

If you are interested in this career cluster, consider some or all of the courses below.

	<u>Art</u>	<u>Business/Tech</u>	<u>English</u>	<u>FCS</u>	<u>Social Studies</u>
<i>Electives</i> (Courses that explore and prepare)	-2D Art -3D Art -Drawing -Photography -Digital Imaging	-Comp. Tech -Comp. Apps I -Comp. Apps II -Intro to Business -Accounting I & II -Marketing -Business Law	-Fund. Of Oral Comm. -Journalism/ Yearbook	- Teen Issues -Work & Fam. Relationships -Independent Living -Beginning Textiles -Advanced Textiles	-Self-Development <u>PSEO</u> -Intro to Psych -Intro to Sociology - Intro to Computers

Science, Technology, Engineering & Math (STEM)

Careers that deal with providing scientific research, laboratory support, research and development of products for industry and consumer products

Career Pathways (sub-categories with in this career cluster)	Engineering and Technology	Science and Math
Sample Careers (Careers listed may fall into more than 1 category)	Civil Engineer; Nuclear Engineer; Computer Engineer; Facilities Tech; Software Engineer	Zoologist; Chemist; Economist; Mathematician; CAD Operator; Lab Technician; Science or Math Teacher

If you are interested in this career cluster, consider some or all of the courses below.

<i>Electives</i> (Courses that explore and prepare)	Art	Business/Tech	Engineering	English	Industrial Tech	PSEO
	-2D Art -3D Art -Drawing	-Comp. Tech -Comp. Apps I -Comp. Apps II -Intro to Business -Web Programming	-Intro to Engineering Design -Principles of Engineering -Digital Electronics -Civil Engineering -Biotechnical Engineering	-Fundamentals of Oral Communication	- Intro to Tech - Intro to Construction -Intro to Man. -Intro to Drafting - Metals - Electricity -Cabinetmaking -CAD/CAM -Adv CAD/CAM	-Intro to Psychology -Intro to Sociology

Transportation, Distribution and Logistics

Careers that deal with the movement and distribution of goods across the world. Services include, transporting (trucking and transport), infrastructure planning, logistics (tracking and shipping product)

Career Pathways (sub-categories with in this career cluster)	Transportation Operations	Logistics Planning & Mgmt Services	Warehousing & Distribution Center Operations	Facility & Mobile Equipment Maint.	Transport Systems & Infrastructure	Health Safety & Environment Mgmt	Sales & Service
Sample Careers (Careers listed may fall into more than 1 category)	Pilot; Train Engineer; Boat Captain; Truck Driver	Logistics Specialists;	Warehouse Managers; Shipping Clerks; Material Handler	Auto Repairers; Large Equipment Repair;	Urban Planner; Civil Engineer; Vehicle Inspectors; Freight Inspectors	Safety Analysts; Environ. Scientists	Sales Agents; Rental Clerks

If you are interested in this career cluster, consider some or all of the courses below.

<i>Electives</i> (Courses that explore and prepare)	Business/Tech	Engineering	Industrial Tech	PE/Health	PSEO
	-Comp. Tech -Comp. Apps I -Comp. Apps II -Intro to Business -Accounting I -Business Law	-Intro to Engineering Design -Principles of Engineering -Digital Electronics -Civil Engineering	- Intro to Tech - Intro to Construction -Intro to Man. - Metals - Electricity	-Physical Health and Safety -Preventive Health	-Intro to Psych -Adv. Man. -Auto Tech.