JESSAMINE CAREER AND TECHNOLOGY CENTER

2012-2013 Instructional Course Directory

Jessamine County Schools

Every Child, Every Day!

a word from our principal

Dexter Knight

Dear Students, Parents, and Guardians,

The ***power*** of good Career and Technical Education (CTE) programs has influenced our community, great Commonwealth, and nation for many years. Through good CTE programs and Career and Technical Student Organizations students have discovered many rewarding careers and many future business and community leaders have been developed. Our commitment to our students while attending the Jessamine Career and Technology Center (JCTC) is an education that is challenging and relevant, while meeting the growing demands of the real world here in Jessamine County, our state, country, and world.

Please feel free to contact any of our JCTC staff, including the new College and Career Readiness (CCR) Center staff to assist you in selecting courses for your high school schedule. Please feel free to contact me with any questions concerning JCTC or Career Technical Education in general.

You can reach me by email at dexter.knight@jessamine.kyschools.us or at 881-TECH (8324).

Sincerely,
Dexter Knight, Principal
Jessamine Career and Technology Center

The Jessamine Career and Technology Center is a 50,000 square foot building located directly behind the Jessamine County Board of Education. JCTC offers challenging, high level technology infused **Career Majors/Pathways** in **Career Clusters** in: Agriculture, Business and Marketing, Health and Human Services, Information Technology and Pre-Engineering. There is also opportunity for students to earn college credit in many dual credit classes with BCTC, University of Kentucky & Morehead State University.

Kentucky's 14 Career Clusters

Kentucky features 14 Career Clusters and for Jessamine County students, pathways are available in all 14 with various pathways in various physical locations. Below is a brief overview of each of the seven pathway offerings here at JCTC:

If you are interested in providing physical therapeutic services to people, diagnosing illness and implementing strategies for health improvement, improving quality of life for people, exciting work environments, developing a better understanding of the human body, and the chance to wear scrubs to work, then Health Sciences could be your pathway.

If you are interested in planning, managing, and/or providing public safety, protective services, and homeland security, this pathway should interest you. Public Safety is geared for those students who are interested in a career as an EMT, Firefighter, or Police Officer. Those students who are ready to engage in a career centered around protecting the lives of others and becoming trained in the skills to do so should enter the Public Safety pathway.

If you like programming, web page design, computer graphics, multimedia, computer repair and networking, then Information Technology is your pathway. This pathway relates to the design, development, support and maintenance of hardware, software, multimedia and systems integration services.

If you are creative and enjoy finding unique ways to provide information about products and services to people, business $ marketing could be your pathway. Brand management, professional sales, merchandising, marketing communications, directing and evaluating business functions are all parts of this exciting career pathway.

If you enjoy working with people to meet their educational needs or if you enjoy trying and/or creating new food recipes or if you enjoy providing quality childcare, this varied pathway could be for you. Education, childcare, family & community services, culinary pursuits, and home design are featured aspects in this exciting pathway.

If you enjoy figuring out how things (living organisms or products) work, solving puzzles (actual or theoretical), taking things apart and putting them back together, and using your creativity in terms of design, the STEM pathway (science, technology, engineering, and math) may be for you. This pathway involves students in planning, managing, and providing scientific research strategies, including laboratory and testing services. This pathway includes our pre-engineering courses as well as our biomedical science courses. Students would choose between the two sub-pathways within the STEM pathway.

If you are interested in animal science, wildlife resources, plant science and/or mechanics, you may want to consider the agriculture pathway. Our classes often take you out of the traditional classroom and put you in settings such as the lab, greenhouse, shop and the great outdoors. Agricultural sciences deal with the production, processing, marketing, distribution, financing, and development of agricultural commodities and resources. These courses are hands-on and activity based. If you enjoy working with various plants and/or animals and enjoy landscaping, turf, or floral design opportunities, then this could be your pathway.

A Career Major/Pathway is a sequence of recommended courses focusing on a specific career within the cluster. **To complete a career major, students must earn four career-related credits within the career major.**
A Career Major/Pathway within a designated career cluster is a graduation requirement for all Jessamine County students.

JESSAMINE COUNTY CAREER MAJORS

Bolded courses are recommended and/or required. Students who complete Career Majors noted in italics will earn the distinction of a CTE (Career and Technical Education) Completer. These students will be recognition at graduation as a CTE completer and will be eligible for Skills Standards Certification upon successful completion of a Skills Standards Test.

AGRICULTURE

Recommended Courses *— Must choose at least* ***TWO*** *of these.*

Career Major - Animal Science Systems
Principles of Agriculture
Animal Science
Equine Science
Adv. Animal Science
Small Animal Technology
Veterinary Science
Food Science
Ag Sales and Marketing
Leadership Development
Agribiology
Wildlife Resources I
Wildlife Resources II
**Must earn 4 credits*

Career Major - Agribiotechnology
Principles of Agriculture
Agribiology
Advanced Animal Science
Advanced Plant Science
Veterinary Science
Food Science
Biotechnology Techniques
**Must earn 4 credits*

Career Major - Horticulture & Plant Science Systems
Principles of Agriculture
Greenhouse Technology
Floral Design I
Floral Design II
Landscaping
Sports Turf Management
Advanced Plant Science
Crop Technology
Ag Sales and Marketing
Small Power Equipment
Agribiology
**Must earn 4 credits*

Career Pathway - Agricultural Power, Structural and Technical Systems
Principles of Agriculture
Small Power Equipment
Ag Power and Machinery
Ag Structures and Designs
Ag Sales and Marketing
**Must earn 4 credits*

Career Pathway - Food Science & Processing Systems
Principles of Agriculture
Agribiology
Food Science
Animal Science
Advanced Animal Science
Biotechnology Techniques
**Must earn 4 credits*

ARTS AND HUMANITIES

Career Major - Instrumental Music
Band/Percussion (4 credits)

Career Major - Vocal Music
General Chorus (2 credits)
Concert Choir (2 credits)

Career Major - Visual Arts
Art I, Art II, Art III, Art IV/AP Art

Career Major - Performing Arts
Drama I
Drama II
Oral Communication
Band **OR** Chorus
**Must earn 4 credits*

Career Major - Public Relations/Journalism
Journalism (2 credits)
Principles of Marketing
Oral Communication

Career Major - World Language
Spanish I/French I
Spanish II/French II
Spanish III/French III
AP Spanish/AP French
**Must earn 4 credits in the same language.*

BUSINESS & MARKETING

Advertising (KOSSA Marketing Skill Standard)
RECOMMENDED
Principles of Marketing (HSB)
Advanced Marketing Management
Elective
Elective
OTHER COURSES
*Adv Mkt/Business Management
Business Law
Computer & Tech App
Entrepreneurship
Internet Marketing
Math for Business & Industry
Principles of Economics (HSB)
Principles of Finance (HSB)

Fashion Marketing (KOSSA Marketing Skill Standard)
RECOMMENDED
Fashion Marketing
*Advanced Marketing/Bus Mgt or Fashion Marketing II
Elective
Elective
OTHER COURSES
Accounting
Advertising & Promotions
Business Law
Computer & Technology App
Entrepreneurship
Fashion & Interior Design I
Internet Marketing
Principles of Business (HSB)
Principles of Economics (HSB)
Principles of Finance (HSB)
Principles of Management (HSB)
Principles of Marketing (HSB)
Retail Marketing

Management (KOSSA Marketing Skill Standard)
RECOMMENDED
Principles of Marketing (HSB)
*Adv Mkt/Business Management
Elective
Elective
OTHER COURSES
Accounting
Advertising & Promotions
Principles of Economics (HSB)
Business Law
Principles of Business (HSB)
Business Management
Computer & Technology App
Entrepreneurship
Internet Marketing
Retail Marketing
Sports & Event Mkt.
Principles of Finance (HSB)
Leadership (HSB)

Marketing (KOSSA Marketing Skill Standard)
RECOMMENDED
Principles of Marketing (HSB)
*Advanced Marketing/Bus Mgt.
Elective
Elective
OTHER COURSES
Accounting
Advertising & Promotions
Business Law
Computer & Technology
Entrepreneurship
Fashion Marketing
Internet Marketing
Leadership (HSB)
Principles of Business (HSB)
Principles of Economics (HSB)
Principles of Finance (HSB)
Principles of Management (HSB)
Retail Marketing
Sports & Event Mkt.
Travel & Tourism

*adv mkt/bus mgt = school store = business strategies (HSB)
*adv mkt/bus mgt 2 = managers of the school store (also ind. study all periods)

High School of Business
Must have the following courses:
Principles of Business
Principles of Economics
Principles of Marketing
Principles of Finance
Principles of Management
Business Strategies

Hospitality, Travel, Tourism & Recreation (KOSSA Marketing Skill Standard)
RECOMMENDED
Principles of Marketing (HSB)
Travel & Tourism Marketing
Elective
Elective
OTHER COURSES
Accounting
*Advanced Marketing/Bus Mgt
Advertising & Promotions
Business Law
Computer & Technology App
Entrepreneurship
International Marketing
Leadership (HSB)
Principles of Business (HSB)
Principles of Economics (HSB)
Principles of Finance (HSB)
Principles of Management (HSB)
Promotional App. & Media

Sports Marketing (KOSSA Marketing Skill Standard
RECOMMENDED
Principles of Marketing (HSB)
Sports & Event Marketing
Elective
Elective
OTHER COURSES
Accounting
*Advanced Marketing/Bus Mgt
Advertising & Promotions
Business Law
Computer & Technology App
Entrepreneurship
International Marketing
Internet Marketing
Leadership (HSB)
Principles of Business (HSB)
Principles of Economics (HSB)
Principles of Finance (HSB)
Principles of Management (HSB)
Promotional App. & Media

High School of Business™ is designed much like a college business administration program. Students take approximately one course per semester, beginning with an introduction to business. The program continues with courses in various business functions concluding with the capstone course, Business Strategies that requires implementation of the principles addressed throughout the High School of Business™ program. High School of Business is designed to be phased in over a four-year period.
Year One – Site Steering Team plans and implements the program
Year Two – Four – Courses are rolled out as scheduled. Teachers complete training for each course they will teach.

COMMUNICATIONS

Career Major - Telemedia Technology
Television and Radio Technology (Eastside Technical Center)
**Must earn 4 credits*

Career Major-Telecommunications
Advanced Telecommunications (Eastside Technical Center)
**Must earn 4 credits*

CONSTRUCTION

Must earn FOUR credits in ONE of these programs.

Career Major - Res/Comm Carpentry
Carpentry (Southside Technical Center)

Career Major - Res/CommElectricity
Electricity (Southside Technical Center)
Career Major- Masonry
Masonry (Southside Technical Center)
**Must earn 4 credits*

EDUCATION

Career Major- General Education
Child & Human Development
Principles of Teaching I
Principles of Teaching II
Oral Communication
Computer & Tech. Applications
AP Psychology
Peer Tutoring
**Must earn 4 credits*

Career Major—Business/Marketing Education
Computer & Tech. Applications
Principles of Teaching I
Business Course (1 credit)
Marketing Course (1 credit)

Career Major—Family and Consumer Science Education
Family Life Skills
Principles of Teaching I
Child/Human Development
Money Skills
Foods & Nutrition
Computer & Tech. Applications
**Must earn 4 credits*

HEALTH

Career Major - Pre-Nursing or Other Pre-Professional Area
Recommended Courses -- Must choose at least **THREE** of these.
Principles of Health Science
Medical Terminology
Emergency Procedures
Medical Nurses Aide (2 credit block)
Anatomy and Physiology
Advanced Anatomy and Physiology
Child/Human Development
**Must earn 4 credits*

Career Major - Allied Health
Recommended Courses -- Must choose at least **THREE** of these.
Principles of Health Science
Medical Terminology
Emergency Procedures
Adv. Health Care Science
Anatomy and Physiology
Advanced Anatomy and Physiology
Medical Nurses Aide
Food Science
Nutritional Science
Child/Human Development
Biotechnology Techniques

HUMAN SERVICES

Career Major - Early Childhood Education
Recommended Courses -- Must choose at least **THREE** of these.
Child/Human Development
Adv. Child & Human Development
Child Care Services I
Child Care Services II
Principles of Teaching I
Money Skills
**Must earn 4 credits*

Career Major- Culinary & Food Services
Foods and Nutrition
Culinary I (East Jessamine High School)
Culinary II (East Jessamine High School)
Advanced Foods & Nutrition
Nutritional Food Science
Money Skills
Culinary Arts (Southside Technical Center)
**Must earn 4 credits*

Career Major - Consumer & Family Management
Money Skills
Foods and Nutrition
Family Life Skills
Computer & Tech. Applications
Business Management
Adv. Child & Human Development
**Must earn 4 credits*

INFORMATION TECHNOLOGY

Career Major - Information and Support Services
Computer Applications
Comp TIA A+Hardware/Troubleshooting (IT 105)
Comp TIA A+Software/Troubleshooting (IT 205)
Network + (NIS 160)
Help Desk I (IT 237)
Help Desk II
**Must earn 4 credits*

Career Major - Network Administrator (MCSA-MCSE)
Computer Applications
Comp TIA A+Hardware/Troubleshooting (IT 105)
Comp TIA A+Software/Troubleshooting (IT 205)
Network + (NIS 160)
Server+/Microsoft
**Must earn 5 credits*

Career Major - Network Administrator - Information Security
Comp TIA A+Hardware/Troubleshooting (IT 105)
Comp TIA A+Software/Troubleshooting (IT 205)
Network + (NIS 160)
Server+/Microsoft
**Must earn 4 credits*

Career Major – Web Development/ Administrator
Computer Applications
Web Page Development (IT 130)
Flash (IT 124)
Approved Web Elective
**Must earn 4 credits*

Career Major – Programming
Computer Applications
Comp TIA A+Hardware/Troubleshooting (IT 105)
Comp TIA A+Software/Troubleshooting (IT 205)
Program Design (CIS 120)
Programming
Approved Web Elective
**Must earn 4 credits*

MANUFACTURING

Career Major - Welding
Welding (Southside Technical Center)
**Must earn 4 credits*

Career Major - Ind Electronics Technology
Electronic Technology (Southside Technical Center)
**Must earn 4 credits*

PUBLIC SERVICES

Career Major - Fire Services (EMF)
Public Safety
EMT-Basic
Fire Control/Prevention
Medical Terminology
Emergency Procedures
Anatomy and Physiology
Oral Communications
Principles of Health Science
**Must earn 4 credits*

Career Major - Criminal Justice
Public Safety
Forensic Science
Law Enforcement
Criminal Justice
Computer & Tech. Applications
Oral Communications

Career Major - Criminal Justice & Corrections
Homeland Security (Eastside Technical Center)
**Must earn 4 credits*

SCIENCE AND MATHEMATICS

Career Major - Pre-Engineering (Project Lead the Way)
Introduction to Engineering Design
Digital Electronics
Principles of Engineering
Civil Engineering & Architecture
Engineering Design and Development
**Pre-engineering is any 4 credits*
***PLTW is IED, POE, DE, & EDD*

Career Major – Biomedical Sciences (Project Lead the Way)
Principles of Biomedical Sciences
Human Body Systems
Medical Interventions
Science Research
Biotechnology Techniques

Career Major - Science and Math

Algebra III/Trigonometry	Advanced Topics
Probability/Statistics	AP Statistics
AP Calculus	Physics
Forensic Science	AP Biology
AP Chemistry	AP Physics
AP Environmental Science	Anatomy and Physiology
Anatomy and Physiology II	

**Must earn 4 credits above and beyond core requirements for Math and Science*

SOCIAL SCIENCES

There is currently not a career major in this cluster. However, the pathways to career program courses within this major can be applied to other majors to help complete a career major graduation requirement.

PATHWAYS TO CAREERS

Career Options
College and Career Readiness (CCR)

TRANSPORTATION

Must earn **FOUR** credits in ONE of these programs.

Career Major - Automotive Technology
Automotive Technology (Eastside Technical Center)

Career Major - Collision Repair & Refinish Technology
Automotive Collision Repair (Eastside Technical Center)

Career Major - Diesel Technology
Diesel Technology (Eastside Technical Center)

******A career options course may count toward a career major but cannot replace a recommend course***

JCTC INSTRUCTIONAL COURSE DIRECTORY SYMBOLS

$$ - symbols placed before and after a course indicate that it may count as college credit for student.

HS (High School) – This denotes the high school course title.
Types of college credit include the following:

DC (Dual Credit) - A course which counts as both a high school and college credit. The course may be aligned with Asbury University, BCTC, EKU, Kentucky State, Murray State, or other colleges/universities. Upon successful completion of the course, the student will have college credit which, in most cases, can be transferred to other institutions of higher learning if they choose not to attend the college/university that provided the course.

AC (Articulated Credit) – A course which will count as college credit if the student enrolls as a full time student at the college/ university that provided the course. The student will receive high school credit as well for the course.

TC (Test Credit) – In some courses, at the end of the high school course, the student has the opportunity to take an end-of-course exam, which, if passed successfully, can lead to college credit for the student. There may be costs associated with the exam itself (AP courses are an example).

Cost Summary
Depending on the type of credit as well as the location of the course (college campus, Jessamine County Schools campus, online course), tuition costs and other associated costs (textbook/materials, security fee for BCTC campus courses, processing/application fees, etc.) may vary ranging from $0 to $400 per course. Please check with your counselor regarding the cost of a specific FYC course if you have questions or need additional information.

JCTC Staff Contact Information:

JCTC Switchboard Phone Number 881-TECH (8324)

NAME	DEPARTMENT	EMAIL ADDRESS
Carrie Bale	Special Ed	Carrie.Bale@jessamine.kyschools.us
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Hack, Christi	Agriculture	Christi.Hack@jessamine.kyschools.us
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Wiggins, Jennifer	Health Services	Jennifer.Wiggins@jessamine.kyschools.us

Agriculture

Course	Credit	Earliest Grade Offered
Agriculture		
Prin of Ag Sci & Tech.	1	9
Agribiology	1	9
Agriscience	1	9
Urban Agriculture	1	9
Ag Build & Struc Skills	1	11
Small Power Equipment	1	10
Floral Design I	1	11
Floral Design I I	1	11
Greenhouse Tech	1	10
Landscaping	1	11
Sports Turf Management	1	10
Animal Science I	1	10
Equine Science	1	10
Small Animal Tech	1	9
Wildlife Resources	1	9
Wildlife Resources II	1	10
Advanced Animal Science	1	10
Ag. Sales and Marketing	1	10
Leadership Dynamics	1	10
Veterinary Science	1	10
Food Science	1	10
Biotechnology Techniques	1	11
Principles of Ag Ed	1	12

Principles of Agricultural Science & Technology

1 credit
No Prerequisite
(9th grade only)
This course introduces students to the various segments of the agriculture industry. Agricultural career opportunities will be emphasized. Basic animal science, plant and land science, and agricultural mechanics skills may be included. The selection and planning of a supervised agricultural experience program and related record keeping will be presented. Personal development and speaking skills will be heavily emphasized. Leadership development will be provided through the FFA. Students will receive personal guidance and counseling with preparatory instructional program selection.

Agriscience

1 credit
No Prerequisite
Agriscience introduces the scientific agricultural approach to animal science and selection, and plant and land science. Agricultural career opportunities will be emphasized in each class. Laboratory experiences relating to basic and current technology will be part of the program. Content may be enhanced by utilizing appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program and keep appropriate records.

Urban Agriculture

1 credit
No Prerequisite
Urban Agriculture introduces students to the concepts of sustainability and self-sufficiency in agriculture. Topics to be covered include gardening methods for small areas such as container gardening and square foot gardening as well as a comprehensive understanding of animal husbandry, including care and legality of keeping livestock in an urban setting. Specifically, students will focus on raising chickens, rabbits, and bees. Students will learn about methods of extending the growing season through the use of cold frames and high tunnels as well as processing food through canning, pickling, drying, fermenting, and freezing.

Agribiology (Life Science Credit)

1 credit
No Prerequisite
(9th-11th grade)

This one-credit course fulfills the life science requirement for graduation by using agricultural contexts. As students study practical agricultural concepts, they apply scientific ways of thinking and working to real-life problems. During their study of agri-biology, students perform many practical tasks. Topics of study will include: Intro to Biology, Cell Structure and Function, Cell Processes, Genetics, DNA, Gene Technology, Ecology, Theories of Being, Classification of Organisms, and Scientific Research (Agriscience Fair) as they each relate to agriculture.

Agricultural Building and Structures Skills (rotates with Ag. Power)

1 credit
No Prerequisite
(11th-12th grade)
This course prepares students to construct and maintain agriculture structures and equipment. It develops basic skills such as tool identification, interpreting plans, carpentry, welding, metal fabrication, plumbing, masonry, fencing, and calculating a bill of materials. The content may be enhanced with appropriate computer applications. Leadership development will be provided through the FFA. Each student will be encouraged to have a supervised agricultural experience program. (Some projects will require fees)

Small Power Equipment

1 credit
No Prerequisite
(10th-12th grade)
Small Power and Equipment was developed to provide you with an understanding of the components that compose a small engine and introduce you to the industry as a whole. Content will include a study of history behind the industry, each system within the engine, an understanding of business principles, and assembly and disassembly. Leadership opportunities will be provided through the FFA, and character and career building will be explored through Supervised Agricultural Experience Program (SAEP) and community service opportunities.

Floral Design I

1 credit
No Prerequisite
(11th-12th grade)
This course is designed to allow students to use hands-on activities to learn floral design principles and techniques. Students will also study horticulture plant identification, marketing, and management while preparing for a career in floriculture. The content may be enhanced with appropriate computer applications. Leadership activities will be provided for students who wish to participate. (Fee $30.00 for floral materials)

Floral Design II

1 credit
Prerequisite: Floral Design I
(11th-12th grade)
This course is designed to allow students that have completed Floral Design I to develop further skills in floral design principles and techniques. Students will study advanced techniques in fresh flower arranging in addition to artificial flower arranging, preservation of fresh flowers and interior landscaping as well as marketing and management in the flower shop. The content may be enhanced with appropriate computer applications. Leadership activities will be provided for students who wish to participate. (Fee $30.00 for floral materials)

Greenhouse Technology

1 credit
No Prerequisite
(10th-12th grade)
This course provides instruction in plant growth, development, and propagation as well as production and maintenance of bedding and container plants. Fundamental principles of vegetable production and commercial production of vegetable crops may be included. The course focuses heavily on application of skills in the greenhouse setting. Students will select varieties and produce and market a variety of greenhouse crops. The content may be enhanced with appropriate computer applications. Leadership activities will be provided for student's who wish to participate.

Landscaping

1 credit
No Prerequisite
(11th-12th grade)
This course provides instruction in the principles and elements of landscaping including landscape design, landscape installation, and landscape maintenance. It will also provide students with the opportunity to study the selection and use of plant and construction materials in the landscape as well as develop cost estimate budgets for each design. Students will also be introduced to landscaping careers. The content may be enhanced with appropriate computer applications. Leadership activities will be provided for students who wish to participate. ($10.00 fee for landscape model materials)

Sports Turf Management

1 credit
No Prerequisite
(10th-12th grade)
Turf Management provides a basic understanding of managing turf surfaces. Content that will be covered include: types of turf, installation, irrigation practices, management, sports turf, outdoor recreation turf, and utilization of turf for residential and commercial surfaces. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.

Animal Science I

1 credit
No Prerequisite
(10th-12th grade)
This course develops knowledge and skills pertaining to livestock identification, selection, nutrition, reproduction and genetics, health management, and marketing of one or more species of farm animals. The latest biotechnology applications will be included. The content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be encouraged to have a supervised agricultural experience program.

Equine Science

1 credit
None required, but Animal Science I is highly recommended
(10th-12th grade)
This course develops scientific knowledge and skills pertaining to breed identification and selection, anatomy, physiology, nutrition, genetics and reproductive management, training principles, grooming, health disease control and sanitation practices. The content may be enhanced with appropriate computer applications.. Leadership development will be provided through FFA. Each student will be encouraged to have a supervised agricultural experience program.

Small Animal Technology

1 credit
No Prerequisite
(9th-12th grade)
Note: Ninth graders who complete Principles of Agricultural Science and Technology may enroll in this course.
This course develops scientific knowledge, management practices, and marketing strategies in small and specialty animal technology. The curriculum may include identification, anatomy, physiology, nutrition, health, selection and care of small animals such as cats, dogs, rabbits, companion birds, ostriches, emus, tropical fish and furbearers. The content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be encouraged to have a supervised agricultural experience program.

Wildlife Resources

1 credit
No Prerequisite
(10th-12th grade)
If you are an outdoors lover, this course is for you. Curriculum in the class may include wildlife habitats, wildlife management, conservation, hunter ethics, wildlife identification, harvesting, marketing, taxidermy, and understanding outdoor recreational enterprises. The content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be encouraged to have a supervised agricultural experience program.

Wildlife Resources II

1 credit
Have completed Wildlife Resources
(10th-12th grade)
This course provides students with a foundation of understanding, knowledge and skills to deal effectively with environmental problems such as global warming, acid rain, endangered species and invasive plants and animals. Students learn a variety of basic laboratory and field techniques including soil and water sampling. The course incorporates both academic and applied studies that include fieldwork in the local area watershed and onsite field trips. The structure and function of natural ecosystems, the history of the environmental movement, impact of legal, economic and political systems on environmental concerns is taught. Students also gain a broad awareness of environmental science and technological career opportunities. An emphasis is placed on students using critical thinking and analytical skills to make a positive impact on the environment. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program.

$$ AGR 100 Animal Science $$

Advanced Animal Science (HS)*

DC Course associated with Murray State University
1 high school credit/3 hours college credit
Prerequisite: Animal Science I
(11th-12th grade)
This accelerated course exposes students to the world of agriculture, animal science and career options. Students will have experiences in various animal science concepts, exciting hands-on activities, projects and problems. These experiences are based on the Project Lead the Way activity-based, project-based and problem-based learning. Students will study animal nutrition, anatomy and physiology, biotechnology and economic viability. Personal development and speaking skills will be heavily emphasized. Leadership development will be provided through the FFA. Students will receive personal guidance and counseling with preparatory instructional program selection. **College credit will be available to those who meet Murray State University admission requirements and pay the $100 course fee.**

***Students may opt to take this course for high school credit only.**

Agricultural Sales and Marketing

1 credit
No Prerequisite
(10th-12th grade)
This course is designed for students that are interested in the business world. One out of every six jobs in the U.S. are related to agriculture and sales and marketing is the largest segment in the agriculture industry. Students in this class will learn about principles of sound sales and marketing practices including customer relations, displays, advertising, and create their own marketing plans. Students will also be able to compete in local and regional sales and marketing contests.

Veterinary Science

1 credit
No Prerequisite
(10th-12th grade)
Are you considering a career as a vet or a vet tech? This course is designed for students who are interested in a career in Veterinary / Animal Science. Topics will include veterinary terminology, anatomy and physiology, clinical exams, parasitology, laboratory techniques, and animal nutrition. A newly constructed lab is available to our students to carry out lab activities. What a great opportunity! Local veterinarians will visit to provide additional input, and Animal Hospital of Nicholasville will be our educational partner. If you love animals and want to take it to the next level, this is the course for you! ($10.00 fee)

Food Science

1 credit
No Prerequisite
(10th-12th grade)
Food Science introduces the issues of world food production and the preparing, processing, and packaging of food. Students will develop their own food products to understand the background of food processing and product development as well as quality control programs used within the food processing industry.

$$ BTN 201 Biotechnology Techniques I $$

Biotechnology Techniques (HS)

DC Course Associated with BCTC
1 high school credit/4 hours college credit
Prerequisite: (One of the following) Ag. Biology, Advanced Animal Science, Vet Science, AP Biology, AP Chemistry, or Anatomy & Physiology.
(11th-12th grade)
Biotechnology Techniques introduces theory and techniques applicable in the field of biotechnology. Course covers media and solution preparation, use of analytical equipment and laboratory safety and includes various nucleic acid techniques, gene expression and purification, and bioinformatics.
Student must meet Bluegrass Community and Technical College admission requirements. There is no fee for the course.

$$ AGR 199 Contemporary Issues in Agriculture $$

Leadership Dynamics (HS)*

DC Course associated with Murray State University
1 high school credit/3 hours college credit
No Prerequisite
(11th-12th grade)
Agriculture Communications was developed to provide you with an understanding of the communications skills necessary within the agriculture industry and to encourage agriculture literacy through classroom instruction, discussion, individual and group projects, and field trips. Content will include a study of oral, written, and visual communications. Leadership opportunities will be provided through the FFA, and character and career building will be explored through Supervised Agricultural Experience Program (SAEP) and community service opportunities.
College credit will be available to those who meet Murray State University admission requirements and pay the $100 course fee.

***Students may opt to take this course for high school credit only.**

$$ AED 104 Introduction to Agriculture Education, Leadership, and LifeKnowledge $$

Principles of Agriculture Education (HS) *

DC Course associated with Murray State University
1 high school credit/3 hours college credit
Prerequisite: 12 grade Preparatory in Agriculture Pathway and with Teachers Permission
(12th grade only)
Students will further their career exploration of Agriculture Education through a hands on learning approach of the freshmen level Agriscience classes. Major responsibilities include mentoring freshman students, teaching a three day unit, planning the PALS program, and observing and acquiring effective teaching strategies. Leadership opportunities will be provided through the FFA, and character and career building will be explored through Supervised Agricultural Experience Program (SAEP) and community service opportunities.
College credit will be available to those who meet Murray State University admission requirements and pay the $100 course fee.

***Students may opt to take this course for high school credit only.**

ARTS & HUMANITIES COURSE OFFERINGS

(Students interested in completing an Arts & Humanities major will need to access the East Jessamine or West Jessamine High School course offerings.)

BUSINESS AND MARKETING COURSE OFFERINGS

Principles of Business (hsb)

1credit
What do a rock group's tour, a pod-cast, and the NFL have in common? A: Business. It's everywhere. In this course you'll explore the major areas of business (marketing, management, and finance) through fun, real world projects.

This course establishes basic foundations for further study in business and marketing courses and provides essential information for making financial and economic decisions. Principles of Business, a project based business course, develops student understanding and skills in such areas as business law, economics, financial analysis, human resources management, information management, marketing, operations, and strategic management. Through the use of three projects, students acquire an understanding and appreciation of the business world. They develop a business analysis report, conduct an environmental scan of the local business community, and investigate business activities. Current technology will be used to acquire information and to complete the projects. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical thinking skills. Formal reflection is an ongoing component of the course. Leadership opportunities provided through DECA activities and competitive events.

Principles of Marketing (hsb)

1credit
Perquisites (principles of business and/or principles of economics)
Why would Apple choose an e-mail campaign over a TV commercial? How does Nike de-termine its prices? Through projects and problems you will get inside marketers' heads and find out what makes them tick.

This course provides a basic foundation for further study in marketing. Students study economic functions at work in the marketplace, marketing functions including purchasing, pricing, and distribution functions. This course is based on the business and marketing core that includes communication skills, economics, financial analysis, and promotion. Both marketing and employment skills learned will improve and increase the chance of successful transition into the world of work. Leadership development will be provided through DECA activities and competitive events. Principles of Marketing is a project-based business course that develops student understanding and skills in the functional areas of marketing: channel management, marketing-information management, market planning, pricing, product/service management, promotion, and selling. Students acquire an understanding and appreciation of each of the marketing functions and their ethical and legal issues. Decision matrices are employed to aid in market planning. This course is project based and hands on.

Leadership (hsb)

1 Credit
No Prerequisites
Leadership, a project-based leadership course, develops student understanding and skills in such areas as communication skills, emotional intelligence, operations, and professional development. Students acquire an understanding and appreciation of the need for leadership skills. To encourage immediate implementation of leadership skills, Leadership utilizes an on-going service-learning project for course delivery and reinforcement. The course content is sequenced for students to identify, plan, implement, and evaluate a service-learning project based on the needs of their community/school. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills. Formal reflection is an on-going component of the course.

This course is designed to assist students with developing skills needed to be successful leaders and responsible members of society. The student will develop personal attributes and social skills. Emphasis will be placed on interpersonal skills, team building, communication, personal development and leadership. This course will include opportunities for students to apply their knowledge.

Principles of Economics (hsb)

1 Credit
Prerequisite (principles of business)
Ever thought about the choices that the Three Little Pigs made? In Business Eco-nomics, you will consider how decisions (such as work vs. play or sticks vs. straw) affect businesses and individuals.

In Business Economics, a project-based business course, students expand their understanding that businesses are influenced by external factors that are often beyond their control. Consumer spending, government policies, economic conditions, legal issues, and global competition are addressed through practical, current applications to everyday societal and business life. Decision matrices are introduced, and the importance and costs of quality are stressed. Students develop their knowledge and skills in such areas as economics, entrepreneurship, operations, and professional development. Throughout the course, students will be presented with current economic problems for which they are asked to determine solutions, often through the application of decision matrices. Leadership opportunities provided through DECA activities and competitive events. This course is designed to be a comprehensive study of economics which meets the economics requirement for graduation. It provides an in-depth study of how people produce, distribute, and consume goods and services. Economic terminology, theory, and a comparison of economic systems and policies are integral to the course. Simulations and/or actual work situations may be used to provide practical experience with various economic conditions.

Principles of Finance (hsb)

1 Credit
Prerequisites (principles of business and principles of economics)
Can you imagine a company president who doesn't under-stand finances? Learning how companies manage their money is important in any business career. In this course, you will face issues that concern financial markets and institutions.

Principles of Finance furthers student understanding of two specific business activities—accounting and finance—that were introduced in an earlier High School of Business™ course, Principles of Business. Through team activities and a semester-long corporate investment project (stock market game). students make connections between accounting and finance. Students acquire an understanding of financial statements, calculate financial ratios, and make corporate financial management decisions based on their analysis of that financial data. In addition, students apply the concepts of operating and overhead costs, internal accounting controls, and budgets to their class business. Lastly, cost/benefit analysis is introduced as an element of financial planning and decision-making. Leadership opportunities provided through DECA activities and competitive events.

Principles of Management (hsb)

1 Credit
Prerequisite (principles of business and principles of economics)
Get an up-close look at managing. You'll learn first-hand how to manage projects and people—and how to do it ethically and legally. Work as a team to conquer problems you face in the areas of man-agement, including human resources, risk, and knowledge management.

Principles of Management furthers student understanding of management that was introduced in an earlier High School of Business™ course, Principles of Business. Through individual and team activities and a semester-long project, students make connections between management and business success. Students acquire an understanding of legal and ethical issues associated with management; initiate, plan, implement and control, and close a project; motivate team members; delegate work; develop a chain of command; coordinate work efforts; and interpret statistical findings.

Advanced Marketing/Business Management 1 and 2

1 credit
Prerequisites (one of the following… principles of marketing, travel and tourism marketing, fashion marketing, or sports marketing)
SCHOOL STORE
This course is designed to enhance management and marketing skills developed in the marketing prerequisite courses and to learn advanced marketing skills in such areas as advertising, customer service, supervision, and employee/employer relations for a wide range of marketing careers. This course is based on the business and marketing core that includes communication skills, emotional intelligence, economics, marketing, operations, promotion, marketing-information management and

financial analysis. Students in this course may also wish to earn additional credit through marketing/retail on-the-job training utilizing the cooperative education method of instruction. Leadership development will be provided through DECA activities and competitive events.
This course emphasizes the skills needed for managing a business that involves the selection and supervision of employees including efficient use of time, personnel, facilities, and financial resources. Students will explore forms of business ownership; typical business organizational structure; product or service promotion in business; effective communications; human relations skills required in dealing with employees; and effective management strategies used in personnel, finance, production, marketing, and information processing. Students will learn all aspects of business and marketing through the operations of the school store (advanced marketing/business management 2 - students will be the managers of the store)

Business Strategies (hsb)

1 credit
Prerequisites (all hsb courses – this is the final course – taught at the same time as school store)
Here's where it all comes together. You and your classmates will team-up to use what you've learned and created in the previous courses to start and run your own business. Take charge!

This project-based business course develops student understanding and skills in such areas as business law, entrepreneurship, financial analysis, human resources management, and strategic management. By planning, organizing, staffing, directing, leading, and controlling business activities, students acquire a realistic understanding of what is required to open and successfully run a business. They conduct situational, market, and competitive analyses; select a target market; develop a business plan; recruit, interview, select, and hire staff; supervise staff; control use of resources; and evaluate the results of the business effort. Throughout the course, students make decisions and use problem-solving skills. Formal reflection is an on-going component of the course. An integral part of this course is working with the community to improve the school store and to develop working relationships by participating in a non paid internship with a local business person.

Business Law

1 credit
No Prerequisites
This course develops an understanding of legal rights and responsibilities in personal law and business law with applications applied to everyday roles as consumers, citizens, and workers. The student will have an understanding of the American legal system, courts/court procedures, criminal justice system, torts, the civil justice system, oral and written contracts, sales contracts and warranties, and consumer protection.
Legal terminology is emphasized.

Advertising and Promotion

1Credit
Prerequisites (principles of marketing)
This course is designed to provide students with a realistic "hands-on" application of techniques used in the advertising and promotion of goods and services. Students use digital media (computer-generated text, graphics, photographs, sound and video) equipment, while being exposed to all forms of media (print, web page, etc.) used by industry. Students will be involved in all aspects of advertising and promotion through the production of promotional videos and online ads. This course is based on the business and marketing core that includes communication skills, economics, financial analysis, product/service management and promotion. Leadership development will be provided through DECA.

Fashion Marketing 1

1 Credit
Prerequisite (principles of marketing)
This course is a specialized course that provides instruction in marketing of apparel and accessories. This course is based upon the business and marketing core that includes communication skills, economics, operations, professional development, promotion, selling, distribution and product/service management. The instruction includes basic fashion and marketing basics, the use of design and color, promotions, visual merchandising and career opportunities. Leadership development will be provided through DECA activities and competitive events, as well as the production of the annual fashion show.

Fashion Marketing 2 (fashion marketing management)

1 Credit
Prerequisite (fashion marketing 1)
This course is designed as a continuation of Fashion Marketing and provides an in-depth study of merchandising techniques, fashion trends, fashion promotion, and management skills. This course is based on the business and marketing core that includes communication skills, economics, operations, professional development, promotion, selling, distribution, and product/service management. Leadership development will be provided through DECA activities and competitive events, as well as the production of the annual fashion show. Theses students will be the managers of the show and leaders in the course. (independent study)

Sports and Event Marketing

1 Credit
Prerequisite (principles of marketing)
This course is designed to develop a thorough understanding of the marketing concepts and theories that apply to sports and events. This course is based on the business and marketing core that includes communication skills, distribution, marketing-information management, pricing, product/service management, promotion, selling, operations, strategic management, human resource management, and the economic impact and considerations involved in the sports and event marketing industries. Leadership development will be provided through DECA.

Travel and Tourism Marketing

1 Credit
Prerequisite (principles of marketing)
This course introduces the student to the travel and tourism industry. This course is based on the Business and Marketing Core that includes communication skills, economics, human resource management, promotion, marketing-information management, and selling. Instruction includes domestic and international travel, sales techniques, transportation methods (road, water, air, rail), food and beverage marketing, and destination marketing. Leadership development will be provided through DECA

COMMUNICATIONS COURSE OFFERINGS

(Students interested in completing a communications major will need to access the Eastside Technical Center course offerings.)

CONSTRUCTION COURSE OFFERINGS

(Students interested in completing a construction major will need to access the Southside Technical Center course offerings.)

EDUCATION COURSE OFFERINGS

Principles of Teaching I

1 high school credit
10th-12th grade
This course is designed to prepare students for a career in education. Students will explore all of the teaching standards recognized by the department of education. A portfolio is required of each student and a college text is used. A minimum of 15 hours of observation time is required, including observations at the elementary, middle, and high school level.

Principles of Teaching II

1 high school credit
11th-12th grade
Prerequisite – Principles of Teaching I
This course explores numerous teaching strategies. Students complete a practicum experience three days a week and meet in class twice a week. Students will complete, at the minimum, two formal lessons at their field site, which will include a formal observation of each lesson. Students will choose their academic level for their field site, including more than one level if requested by the student.

HEALTH COURSE OFFERINGS

Principles of Health Sciences

1 credit
10th-12th grade
Principles of Health Sciences is generally the first course in the Health Science program. This course provides a foundation of core knowledge common to all health careers. The students will be able to build upon this knowledge as progress is made toward the next step in developing skills. The course will provide reliable and realistic information about health science careers and will enable the student to make informed decisions about career choices, the workplace, and post-secondary opportunities. Field trips to and/or guest speakers from various health care fields will be used to enhance learning.

Principles of the Biomedical Sciences™/Medical Biology Part of Project Lead The Way Biomedical Sciences Pathway

(1 credit)
9th-10th grade
This one-credit course fulfills the life science requirement for graduation by using medical contexts to present the life science content outlined in the Program Studies. As students study practical biomedical concepts, they apply scientific ways of thinking and working to real-life problems. Students explore topics in the health sciences using a combination of labs, case studies and hands-on projects, and relate their understanding of concepts in biochemistry, cell biology, genetics, ecology and evolution to diseases that affect human body systems, including cancer, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases such as Ebola and cholera. The course is designed to provide an overview of all the courses in the Biomedical Sciences Program and to lay the scientific foundation necessary for student success in the subsequent courses. The key biological concepts embedded in the curriculum include homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease.

Human Body Systems™ Part of Project Lead The Way Biomedical Sciences Pathway

(1 Credit)
Students examine the processes, structures, and interactions of the human body systems to learn how they work together to maintain homeostasis (internal balance) and good health. Using real-world cases, students take the role of biomedical professionals and work together to solve medical mysteries. Hands-on projects include designing experiments, investigating the structures and functions of body systems, and using data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation Important concepts covered in the course are communication, transport of substances, locomotion, metabolic processes, defense, and protection. **Prerequisite: Principles of Biomedical**

Medical Interventions™ Part of Project Lead The Way Biomedical Sciences Pathway

(1 credit)
10th-12th grade
Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body as students explore: how to prevent and fight infection; how to screen and evaluate the code in human DNA; how to prevent, diagnose and treat cancer; and how to prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to the important roles scientific thinking and engineering design play in the development of interventions of the future.

$$ BIO 137 Basic Anatomy & Physiology $$

Anatomy and Physiology I / (HS)

DC Course Associated with BCTC
1 high school credit/4 hours college credit
11th-12th grade
BIO 137 is the first semester of Anatomy and Physiology and covers basic chemistry, cell structure, cell physiology, metabolism, tissues and integumentary, skeletal, muscular and nervous systems. **Students successfully completing this course may qualify to receive 4 hours of dual credit through Bluegrass Community and Technical College. Students must complete BCTC application and have a qualifying ACT or COMPASS test scores.**

$$ BIO 139 Advanced Anatomy and Physiology II $$

Advanced Anatomy and Physiology II (HS)

DC Course Associated with BCTC
1 credit
11th – 12th grade
Prerequisite: Anatomy and Physiology I
BIO 139 is the second semester of Anatomy and Physiology and covers the interrelationships of organ systems, including the endocrine, reproductive, cardiovascular, lymphatic, digestive, respiratory, and urinary systems. **Students successfully completing this course may qualify to receive 4 hours of dual credit through Bluegrass Community and Technical College. Students must complete BCTC application and have a qualifying ACT or COMPASS test scores.**

$$ AHS 115 Medical Terminology $$

Medical Terminology (HS)

DC Course Associated with KCTCS
This course is transferrable only with the KCTCS System.
1 high school credit/3 hours college credit
10th-12th grade
Prerequisite: Principles of Health Science
This course is an intense study of the medical language used in all health career major areas. Students will learn correct pronunciation, spelling and application rules. Medical Terminology includes writing exercises, research and connections to medical science.

Emergency Procedures (JCTC)

1 credit
10th-12th grade
Prerequisite: Principles of Health Science
This course will focus on potential emergency situations. It is designed to promote an understanding of standard precautions necessary for personal and professional health maintenance and infection control. Upon successful completion of the course, the student will demonstrate the necessary skills in First Aid and Cardiopulmonary Resuscitation (CPR) and will be given the opportunity to take the completion examination as outlined by the sponsoring agency.

$$ NAA100 Medicaid Nurse Aid $$

Medicaid Nurse Aide (HS)

DC Course Associated with BCTC
1 high school credit/ 3 hours college credit
11th-12th grade
Prerequisite: Previous Pre-Nursing courses
Lab fee: $15
Testing Fee: $15
The Medicaid Nurse Aide program consists of classroom instruction and clinical experience. The program is a minimum of 75 hours with 16 of these hours in the clinical setting. Classroom instruction provides the students with the knowledge and skills required to care for individuals in a long-term care facility/ acute care facility. Instruction focuses on communication, infection control, safety, residents' rights and basic nursing skills. The clinical experience allows the students to assume the role of a nurse aide and apply knowledge and skills learned in the classroom setting. Students should complete the Principles of Health Science and Emergency Procedures prior to taking this course. This program meets the requirements set forth by the Kentucky Medicaid Program and provides the opportunity for students to become Nurse Aide State Registered.

$$ BTN 201 Biotechnology Techniques I $$

Biotechnology Techniques (HS)

1 high school credit/4 hours college credit
Prerequisite: (One of the following) Ag. Biology, Advanced Animal Science, Vet Science, AP Biology, AP Chemistry, or Anatomy & Physiology.
(11th-12th grade)
Biotechnology Techniques introduces theory and techniques applicable in the field of biotechnology. Course covers media and solution preparation, use of analytical equipment and laboratory safety and includes various nucleic acid techniques, gene expression and purification, and bioinformatics.
Student must meet Bluegrass Community and Technical College admission requirements. There is no fee for the course.

HUMAN SERVICES COURSE OFFERINGS

Child and Human Development

1 credit
9-12 Grade
This course provides learning experiences that will enable the student to examine the developmental processes in children from conception to adolescence. In each stage of development the student will explore physical, intellectual, and social/emotional needs of children. Students will also explore the challenges of parenthood. The topics of play, discipline, and child care will be included. This is an excellent class for students interested in careers that involve children and anyone who wants to be a parent someday. Students will complete a flour baby project and have the opportunity to take home a reality baby.

Advanced Child and Human Dev.

1 credit
10-12 Grade
Prerequisite: Child and Human Development
This course addresses the practical problems related to understanding the types and stages of human growth and development, recognizing effects of heredity and environment on the life stages, meeting the needs of exceptional children, promoting the growth and development in the early years, middle childhood, adolescent, and adulthood stages. Big projects include a pregnancy belly simulation and advanced reality baby project. Students will have the opportunity to run a preschool in the JCTC playschool lab, and they will also do a short field experience in elderly care.

Child Care Services I

1 credit
10th-12th grade
Prerequisite: Child/Human Development
This course provides training for entry-level positions in day care centers, nurseries, kindergartens, and private homes. Students study careers in child development, child guidance, children's health and well being in group care, value of play, teaching strategies and management, and curriculum development. The subject content is reinforced with work practicuum experience in an early childhood education setting.

Child Care Services II

1 credit
11th-12th grade
Prerequisite: Child Care Services I
This course is a continuation of Child Development Services I designed for students who wish to train for supervisory level positions or to further their education at the post secondary level in the area of childcare and development. Students gain in-depth work experiences in child-care establishments. Students will have the opportunity to work with children in the JCTC playschool lab. They will also have the opportunity to work with children at an elementary school if so desired.

Fashion Entrepreneurship

1 credit
This course provides opportunities for students to develop career competencies in the fashion industry through an entrepreneurship approach. Students will apply fashion skills of design principles and processes through performance. Students will learn entrepreneurship skills as they run a school-based business utilizing the industrial embroidery machine.

INFORMATION TECHNOLOGY COURSE OFFERINGS

Computer and Technology Applications

1 credit
Students will use a computer and application software including word processing, presentation, database, spreadsheets, internet, and email to prepare elementary documents and reports. The impact of computers on society and ethical issues are presented.

$$ CIS 105 $$

Computer Troubleshooting Hardware\CompTIA A+ (HS)

DC - Dual-Credit Option
1 credit - Fall Semester
Prerequisite – Instructor approval
(9th-12th grade)
Course Description: The Computer Troubleshooting Hardware course will primarily focus on installing, maintaining and troubleshooting computer hardware. In addition, the students will gain the knowledge\experience to purchase hardware and build a computer from the ground up. The course will also offer real world experience by

giving the students the opportunity to maintain the technology at JCTC. The course follows the Comp TIA A+ curriculum and will prepare students for the A+ certification. The Comp TIA A+ certification is the industry standard for validating vendor-neutral skills expected of an entry-level computer technician. Those holding the A+ certification have a broad base of knowledge and competency in core hardware and operating system technologies including power supplies, form factors, processors, motherboards, memory, hard drives, expansion cards, multimedia hardware, printers, laptops and basic networking.

**It is highly recommended that students take the A+ Hardware course (FALL semester) and the A+ Software course (SPRING semester) to prepare for the A+ National Exam. Also, because the software course makes assumptions that a student is familiar with computer hardware, it is beneficial to take the hardware course before the software course. The courses will count toward the four classes required to complete the Information Technology (IT) pathway.*

$$ CIS 205 $$

Computer Troubleshooting Software\ CompTIA A+ (HS)

DC - Dual-Credit Option
1 credit – Spring Semester
Prerequisite – Computer Troubleshooting Hardware\A+
(9th-12th grade)
Course Description: The Computer Troubleshooting Software course will primarily focus on installing, maintaining and troubleshooting computer software. In addition, the students will gain the knowledge\ experience to purchase software and install numerous operating systems. The course will also offer real world experience by giving the students the opportunity to maintain the technology at JCTC. The course follows the Comp TIA A+ curriculum and will prepare students for the A+ certification. The Comp TIA A+ certification is the industry standard for validating vendor-neutral skills expected of an entry-level computer technician. Those holding the A+ certification have a broad base of knowledge and competency in core software and operating system technologies including installing & maintaining windows 95-Windows 7, open source software, Linux, MAC operating systems, multimedia resources, the internet, printers, diagnosing, preventative maintenance, and basic networking.

**It is highly recommended that students take the A+ Hardware course (FALL semester) and the A+ Software course (SPRING semester) to prepare for the A+ National Exam. Also, because the software course makes assumptions that a student is familiar with computer hardware, it is beneficial to take the hardware course before the software course. The courses will count toward the four classes required to complete the Information Technology (IT) pathway.*

Multimedia Publishing

1 credit
Prerequisite: Computer and Technology Applications
10th 12th grade
This hands-on course applies publishing and presentation concepts through the development of sophisticated business documents and projects. These documents include, but are not limited to, brochures, manuscripts, reports, programs, catalogs, newsletters, flyers, business forms, and graphs, web pages, on-screen presentations, and video productions. Equipment such as scanners, digital cameras, video cameras, and color laser printers may be utilized in creating the documents. Formatting, editing, page layout, and design concepts are taught. Distribution ready publication standards are applied to all projects. Students will develop communication skills, problem solving techniques, cooperative learning, and interpersonal skills.

Advanced Web Page Development

1 Credit
10th – 12th grade
Prerequisite: Web Page Design
This course is designed to give the student experience with advanced topics in planning and implementing a professional web site. Emerging technologies will be explored in creating interactive web pages that incorporate cascading style sheets, DHTML, JavaScript, and multimedia and graphics. Issues to be covered will include designing for a cross-browser web site and different monitor resolutions.

$$ NIS 160 Network+ $$

Network+ (HS)

DC - Dual-Credit Option
1 credit – Spring Semester
Prerequisite – Computer Troubleshooting\ A+ Hardware & Computer Troubleshooting\A+ Software
(10th-12th grade)
Course Description: Knowing how to install, configure, and troubleshoot a computer network is a highly marketable skill. This course first introduces the fundamental building blocks that form a modern network, such as protocols, topologies, hardware, and network operating systems. It then provides in-depth coverage of the most important concepts in contemporary networking, such as TCP/IP, Ethernet, wireless transmission, and security. The course will prepare you to select the best network design, hardware, and software for your environment. You will also have the skills to build a network from scratch and maintain, upgrade, and troubleshoot an existing network. Finally, you will be prepared to pass CompTIA's (the Computing Technology Industry Association's) Network+ certification exam.
Specific topic coverage includes:
An Introduction to Networking, Networking Standards and the OSI Model, Transmission Basics and Networking Media, Introduction to TCP/IP Protocols, Topologies and Ethernet Standards, Network Hardware, WANs and Remote Connectivity, Wireless Networking, Network Operating Systems, In-Depth TCP/IP Networking, Voice and Video Over IP, Network Security, Troubleshooting Network Problems, Network Management
**It is essential that students take the A+ Hardware course (FALL semester) and the A+ Software course (SPRING semester) to prepare for the Network+ course. The Network+ course makes assumptions that a student is familiar with computer hardware, computer software and basic networking. The course will count toward the four classes required to complete the Information Technology (IT) pathway.*

$$ NIS 213 $$

Server+\Microsoft (HS)

DC - Dual-Credit Option
1 high school credit/ 3 hours college credit
Spring Semester
Prerequisite – Computer Troubleshooting\ A+ Hardware & Computer Troubleshooting\A+ Software & Network+
(10th-12th grade)
Course Description: This course explores Windows Server 2008 networking and helps you prepare for the MCTS/MCITP Exam 70-642: Windows Server 2008 Network Infrastructure, Configuring. The course focuses on configuring, managing, and troubleshooting networking features and services in a Windows 2008 Server environment.
Specific topic coverage includes:
- Introduction to Windows Server 2008
- Installing Windows Server 2008
- Networking with Windows Server 2008
- Installing and Configuring the Dynamic Host Configuration Protocol
- Introduction to DNS in Windows Server 2008
- Managing and Administering DNS in

Windows Server 2008
- Configuring File Services in Windows Server 2008
- Introduction to Printers in a Windows Server 2008 Network
- Network Policy and Access Services in Windows Server 2008
- Securing Windows Server 2008
- Managing and Monitoring a Windows Server 2008 Network

**It is essential that students take the A+ Hardware course (FALL semester), the A+ Software course (SPRING semester) & Network+ to prepare for the Server+\ Microsoft course. The Server+\Microsoft course makes assumptions that a student is familiar with computer hardware, computer software and advanced networking. The course will count toward the four classes required to complete the Information Technology (IT) pathway.*

$$ IT 237 $$

Help Desk I (HS)

DC - Dual-Credit Course Associated with BCTC
1 high school credit/ 3 hours college credit
Prerequisite – Computer Troubleshooting\ A+ Hardware & Computer Troubleshooting\A+ Software
(10th-12th grade)
Course Description: This course provides an in-depth look at the process associated technologies available for customer service and support in a technical or non-technical environment. It focuses on the technology, tools and techniques involved in how to run an effective help desk. Students will look at the many software options available for tracking and managing data. Course includes hands-on, real-world projects using current help desk software.

$$ IT 238 $$

Help Desk I (HS)

DC - Dual-Credit Option
1 high school credit/ __ hours college credit
Prerequisite – Computer Troubleshooting\ A+ Hardware & Computer Troubleshooting\A+ Software
(10th-12th grade)
Course Description: This is a continuation of Help Desk I. This course provides an in-depth look at the process associated technologies available for customer service and support in a technical or non-technical environment. It focuses on the technology, tools and techniques involved in how to run an effective help desk. Students will look at the many software options available for tracking and managing data. Course includes hands-on, real-world projects using current help desk software.

$$ CIS 120 $$

Principles of Programming in C++(HS)

DC - Dual-Credit Course Associated with BCTC
1 high school credit/ 3 hours college credit
(10-12th grade)
Prerequisite: Algebra I + Computer Applications or IC3 Certification
Principles of Programming is a one-semester course in C++ programming for students who are interested in expanding their knowledge of computer science. It emphasizes problem solving using algorithms and C++ data structures. This course is built around a series of computer "problems" that can be solved by creating original applications in the C++ programming language.

$$ IT 130 $$

Web Design and Development (HS)

DC - Dual-Credit Course Associated with BCTC
1 high school credit/ 3 hours college credit
Prerequisite: Computer Applications or IC3 certification
Students analyze the structure of the worldwide web, apply basic principles of web documents and HTML, and develop multi-media web pages. Course content will include the understanding of hypertext and web structures. Equipment such as scanners, digital and video cameras, and sound recording devices will be utilized through hands-on instruction. Students learn to use web page development software to create or change web pages, inserting text content, graphics and interactive modules. They also learn to use research software tools to help design the look, feel and navigation of a web page. Web pages updates and work with the hardware associated with the web page is also emphasized.

$$ IT 134 $$

Flash (HS)

DC - Dual-Credit Course Associated with BCTC
1 high school credit/ 3 hours college credit
Prerequisite: Web Design or Intro to Programming with C++
Adobe Flash is vector graphic development program that allows you to develop powerful and interactive graphics and web based content. Flash can be used to develop content of various levels, from basic animated drawings to interactive web sites. Students will learn how to create interesting motion graphics and adding basic interactivity by dynamically changing graphics, creating triggered sound effects, and navigating through different "scenes." This course can be taken after either web design or intro to programming as an advanced course in either pathway.

$$ CIF 149 $$

Java Programming (HS)

DC - Dual-Credit Course Associated with BCTC
1 high school credit/ 3 hours college credit
Prerequisite: Intro to Programming with C++
Java is a highly portable programming language suitable for developing Internet and WWW applications. It can also be used as a general-purpose object-oriented language, and its integrated support for threads makes it suitable for developing concurrent and distributed applications. This course covers specifics of writing programs in Java, as well as some basics of object-oriented design and programming. Students will write, compile and execute Java programs. This course can be taken after Intro to Programming and before or after Flash.

Computer Visualization 1

1 Credit
(10thv-12th grade)
Prerequisite: Algebra 1
This course uses industry standard software and equipment to introduce students to the design process involved in creating 3 dimensional computer based models and animation. Students will use Adobe Photoshop, AutoDesk 3ds MAX, and Final Cut Pro to produce animated movies which contain 3d models that have been created by the students. The goal of the course is to increase the student use of technology through digital video creation and editing.

Computer Visualization 2

1 Credit
(10th-12th grade)
Prerequisite Computer Visualization 1
This course is a continuation of Computer Visualization 1. The animation projects will be more involved and will include more modeling, animation, and digital video effects. As in CV1, AutoDesk 3ds MAX will be used for modeling and animation. Final Cut Pro will be the video production software.

MANUFACTURING COURSE OFFERINGS

(Students interested in completing a construction major will need to access the Southside Technical Center course offerings.)

PUBLIC SERVICES COURSE OFFERINGS

Public Safety

1 credit
(9th-12 grade)
This exciting introductory level course will provide an overview public safety career programs, specifically EMS (Emergency Medical Services), Criminal Justice, and Fire Services. This course will serve as the entry-level course for both the Fire/EMS and the Criminal Justice career majors. However, students can take the course as a general elective also. Units will feature the various sectors of public safety (examples include crime prevention and investigations, fire control and prevention, emergency medical services, communications, homeland security, private security and investigations, drug and alcohol awareness, and the court system) and the students will complete an comprehensive public safety culminating project as their final exam. There will be a course coordinator and agency members from Jessamine County EMS, Nicholasville PD, Jessamine County Sheriff's Office, Jessamine Co. Fire Department, Nicholasville Fire Department, along with others, will provide instruction throughout the course.

$$ EMC 110 Introduction to Emergency Medical Care $$

Emergency Medical Technician-Basic EMT-B (HS)

AC - Credit Course Associated with EKU
1 high school credit/3 hours college credit
11th-12th grade
Fee: $10
Prerequisite: CPR training or instructor approval
Basic candidates will become familiar in the detailed aspects of emergency medical care. The EMT-B course is divided into 7 modules of instruction which include; preparatory, patient assessment, airway, medical/behavioral emergencies, trauma, infants and children, and EMS operations. An elective module in Advanced Airway is an addition to the course. The EMT-B course is designed to prepare the student for National Certification Board exams as well as "true to life" patient care. The EMT-B course will consist 145 hours of lecture and "hands on" skill labs (this does not include any internship with active EMS units assessing and treating injured or ill patients during the certification). The EMT-B candidate who successfully completes all portions of the EMT-B course will sit for National Boards in the attempt to obtain National Registry and Kentucky State Certification. In order to fulfill the Kentucky and National Standards this course will retain the option of conducting Saturday classes. It is the utmost of importance that all participating students attend all classes. The issue of missing class will hinder the student's ability to comply with the National Standards.
Enrollment Requirements: (202 KAR 7:301 EMT, Section 1)
(1) Individuals shall be eligible to enroll as a student in an EMT education and training program if the applicant.
(a) Is at least sixteen (16) years of age; and
(b) Is currently enrolled in grades 9-12 with a minimum GPA of 2.0; or
(c) Holds a high school diploma or GED.
(2) The student applicant shall:
(a) Understand, read, speak, and write the English language with a comprehension and performance level equal to at least the ninth grade of education, otherwise known as Level 4, verified by testing as necessary;
(b) Not currently be subject to disciplinary action pursuant to KRS Chapter 311A that would prevent certification;
(c) Meet all additional requirements established by the EMS-TEI; and
(d) Hold a valid motor vehicle operator's license or learners permit from a state or territory in the United States.
Certification Requirements: (202 KAR 7:301 EMT Section (1), (2))
(1) Individuals desiring initial certification as an EMT shall:
(a) Meet all of the requirements of Section 1 of this administrative regulation;
(b) Be at least eighteen (18) years of age;
(c) Hold a high school diploma or GED;
(d) Successfully complete an education and training program that conforms to the curriculum of the United States Department of Transportation, National Highway Traffic Safety Administration, 1994 National Standard Curriculum for Emergency Medical Technician-Basic, which shall not be satisfied by the completion of refresher or transition courses alone;
(e) Obtain NREMT registration as a NREMT-B;
(f) Submit a completed and signed "Emergency Medical Technician Initial Certification Application;"
(g) Present written evidence of completion of current HIV/AIDS training required by KRS 311A.110;
(h) Pay the fee required by 202 KAR 7:030; and
(i) Present written evidence of completion of current training in CPR that:
1. Shall be taught by an individual who holds instructor certification at an appropriate level from:
a. The American Red Cross;
b. The AHA;
c. The National Safety Council;
d. The ASHI; or
e. Another board approved organization; and
2. Provides instruction and testing in:
a. One (1) rescuer CPR;

Forensic Science

1 credit
(11th-12 grade)
Forensic science is a multidisciplinary science class which focuses on practices and analyses of physical evidence found at crime scenes. Students will apply concepts from biology, chemistry and mathematics to the recreation of crime scenes, identification of individuals and the presumptive identification and analysis of trace evidence. There is a strong emphasis on hands-on activities, the use of case studies and labs in forensic science. Topics covered include hair and fiber analysis, forensic palynology, odontology, fingerprints, DNA analysis and profiling, blood spatter analysis, anthropology and entomology.

SCIENCE & MATHEMATICS COURSE OFFERINGS

AP Chemistry

2 credits
Prerequisite: Algebra II and Chemistry I or teacher/counselor recommendation
(11th-12 grade)
Lab Fee $20
This year long course is designed for students interested in taking the AP Chemistry Exam for college credit or the American Chemical Society exam at the University of Kentucky. All areas of Chemistry are covered using a college level text. Students need to have a thorough background in Chemistry I and math.

AP Statistics

2 credits
11th – 12th Grade
Prerequisite: Algebra II
Students will continue developing an understanding of statistics through exploratory analysis, planning a study, probability, and statistical inference. Students will explore and integrate statistical procedures through graphical representations, observation of patterns, and formulation of models to make and test conjectures. This course is designed to prepare students for the Advanced Placement Exam in May. A graphing calculator is required for this course. Students should see their most recent math teacher for a recommendation.

$$ MAT 115 College Algebra $$ College Algebra (HS)

DC - Dual-Credit Option Associated with Kentucky State University
1 high school credit/ 3 hours college credit
12th Grade
Prerequisite: Algebra II (full year) or Algebra IIA & Algebra IIB
MAT 115: College Algebra can be used to satisfy the general education mathematics requirement for all Kentucky public universities as well as a majority of U.S. public and private colleges and universities as well. An overview of manipulation of monomials, polynomials rational and radical expressions; solving equations and inequalities, including linear, rational, quadratic, absolute value, exponential and logarithmic; developing problem solving techniques; an introduction to functions, the algebra of functions and their graphs; study of properties and graphs of polynomial and rational functions, as well as exponential and logarithmic functions; techniques in graphing functions, including use of a graphing calculator; reading/interpreting graphs of functions; applications.

PRE-ENGINEERING CAREER MAJOR THROUGH "PROJECT LEAD THE WAY"

$$ EGR 100 (Engineering Elective) $$ Intro to Engineering Design (HS)

TC Credit Associated with UK
1 high school credit/3 hours college elective credit in the College of Engineering
Prerequisite: Algebra I or currently enrolled
9th-12th grade
A course that teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using solid modeling computer design software.
Student must pass the course and pass the final exam in order to gain TC. The maximum limit of elective hours accepted by the College of Engineering is six hours.

$$ EGR 100 (Engineering Elective) $$ Principles of Engineering (JCTC)

TC Credit Associated with UK
1 high school credit/3 hours college elective credit in the College of Engineering
Prerequisite: Algebra I
Instructor approval is needed for any student who does not meet the above requirements.
9th-12th grade
A course that helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change.
Student must pass the course and pass the final exam in order to gain TC. The maximum limit of elective hours accepted by the College of Engineering is six hours.

$$ EGR 100 (Engineering Elective) $$ Digital Electronics (JCTC)

TC Credit Associated with UK
1 high school credit/3 hours college elective credit in the College of Engineering
10th-12th grade
Prerequisite: Algebra II or currently enrolled, IED and/or POE
A course in applied logic that encompasses the application of electronic circuits and devices. Computer Simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices.
Digital Electronics teaches applied logic through work with electronic circuitry, which students also construct and test for functionality.
This course covers topics such as:
- o Using a Multimeter
- o Ohm's Law
- o Trouble Shooting Circuits
- o Boolean Expressions
- o Multiplexer & Demultiplexer
- o State Machine
- o Breadboarding Circuits
- o Fluid Power

Prerequisites for this course are:
- o Current enrollment in Algebra II or completion of Algebra II with a grade of "C" or higher.
- o Completion of Introduction to Engineering & Design OR Principles of Engineering with a grade of "C" or higher.
- o Instructor approval is needed for any student who does not meet ALL of the above requirements.

Student must pass the course and pass the final exam in order to gain TC. The maximum limit of elective hours accepted by the College of Engineering is six hours.

Engineering Design & Development

1 credit
10th-12th grade
Prerequisite: IED and one of the following POE or DE.
Engineering Design and Development is a research course that requires students to formulate the solution to an open-ended engineering question. With a community mentor and skills gained in their previous courses, students create written reports and working prototypes of their designs, defend the designs, and submit them to a panel of outside reviewers at the end of the school year.
This course covers topics such as:
- o Problem Identification
- o Research
- o Decision & Design Process
- o Design, Build, & Test
- o Presentation

Prerequisites for this course are:
- o Completion of Algebra II, Physics, or upper level math & science courses with a grade of "C" or higher.
- o Completion of Introduction to Engineering & Design and Principles of Engineering with a grade of "C" or higher.
- o Completion of Civil Engineering & Architecture or Digital Electronics with a grade of "C" or higher.
- o Instructor approval is needed for any student who does not meet ALL of the above requirements.

Student must pass the course and pass the final exam in order to gain TC. The maximum limit of elective hours accepted by the College of Engineering is six hours.

$$ EGR 100 (Engineering Elective) $$ Civil Engineering and Architectural Design (JCTC)

TC Credit Associated with UK
1 high school credit/3 hours college elective credit in the College of Engineering
10th-12th grade
Prerequisites: Introduction to Engineering Design, Algebra I, and Geometry (or currently enrolled)
This course provides an overview of the field of Civil Engineering while emphasizing the interrelationship and dependence of both the fields of Civil Engineering and Architecture on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities.
This course covers topics such as:
- o The Roles of Architects and other professionals involved in site development
- o Project Planning
- o Site Planning
- o Building Design
- o Project Documentation and Presentation

Prerequisites for this course are:
- o Completion of Algebra I, Geometry, Physics, or upper level math course with a grade of "C" or higher.
- o Instructor approval is needed for any student who does not meet the above requirements.

Student must pass the course and pass the final exam in order to gain TC. The maximum limit of elective hours accepted by the College of Engineering is six hours.

$$ EGR 100 (Engineering Elective) $$

Geometry through Engineering

TC Credit Associated with UK
1 high school credit/3 hours college elective credit in the College of Engineering
Prerequisite: Algebra I, teacher recommendation
9th-12th grade
Students will discover realistic applications of geometric relationships and principles through the engineering design process. Geometric topics such as inductive reasoning, points, lines, planes, angles, triangles, planar figures, similarity and congruence, circles, area, volume, coordinate geometry, transformations, and right triangle trigonometry will be taught with engineering applications. Models of product solutions will be created, analyzed and communicated using modeling computer design software. **Students who successfully complete this integrated course will receive two high school credits, one for geometry and one for Introduction to Engineering Design.**
**The course will be offered 1st block and will have an early start time of 8:15 a.m. due to the extensive content from both subjects. Students will need to be able to provide their own transportation to JCTC for this course in the morning. A shuttle will be provided at the end of the block for return transportation.*
Student must pass the course and pass the final exam in order to gain TC. The maximum limit of elective hours accepted by the College of Engineering is six hours.

SOCIAL SCIENCES COURSE OFFERINGS

PATHWAYS TO CAREERS

Career Options

1 credit
No Prerequisite
9th-10th grade
This course enables students to investigate Kentucky's 14 career clusters, personal learning styles, and receive guidance in selecting a career major. Other topics include financial literacy, character building, and career exploration.

College & Career Readiness

1 credit for course and up to 2 additional credits for approved work experience
12th grade students ONLY
***Now only available as an online course! Students will be required to meet at JCTC for the first five days of the course to receive on-line course training and receive further instructions as to meeting dates & times.*
College & Career Readiness is for seniors only and is required for those students enrolled in work block/work based learning. Topics covered include analysis of various work related issues, development of resumes, cover letters, and interviewing techniques. Studies include how personality and learning style affect career choice. Methods of college selection and affordability are also explored. Students are exposed to a wide variety of colleges, universities, and careers. Lessons providing financial literacy, virtue and character are also weaved throughout the course. College visits are available to interested students. (Though online, students are required to participate in periodic in-class sessions at the instructor's discretion.)

TRANSPORTATION COURSE OFFERINGS

(Students interested in completing will need to access the Eastside Technical Center course offerings.)

WORLD LANGUAGES

Agriculture Spanish I (JCTC)

1 credit
Performance Based
No Prerequisite but Principles of Agriculture recommended.
(10th - 12th Grade)
Must be paired with Agriculture Spanish II in consecutive semesters.
Students will begin their study of the Spanish language and various segments of the agriculture industry and will develop an appreciation for Hispanic culture within the agricultural setting of Kentucky. They will start by hearing and repeating the language and then move quickly into more advanced skills like speaking, reading, and writing. To develop these skills students will participate in performance-based language activities including, but not limited to, role-playing situations in the classroom and interacting with native speakers on local farms. Content covered in this course includes: Agriculture Production (Crops, Animals), the garden, and Basic Interpersonal Communications.

Agriculture Spanish II (JCTC)

1 credit, Performance Based
Prerequisite: Agriculture Spanish I
(10th - 12th Grade)
This class is a continuation of the work done in Spanish I with the addition of the following topics: Cattle, Horses, Wildlife and agricultural professions. Students focus on additional performance-based activities, related to content. Students continue to develop their skills in listening, reading and writing with an emphasis on speaking, as well as expanding their cultural knowledge. Students participate in a variety of communicative experiences with native speakers.

Spanish I

1 credit, Performance Based
(9th - 12th Grade)
Students will begin their study of the Spanish language and will develop an appreciation for Hispanic culture. They will start by hearing and repeating the language and then move quickly into productive skills like speaking and writing at a beginning level. To develop these skills students will participate in reality-based language activities like skits, dialogues, and foreign language festival.

Spanish II

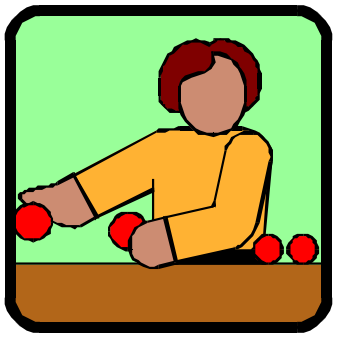
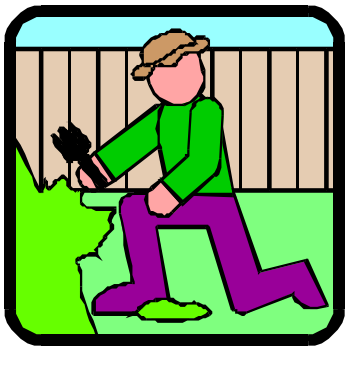
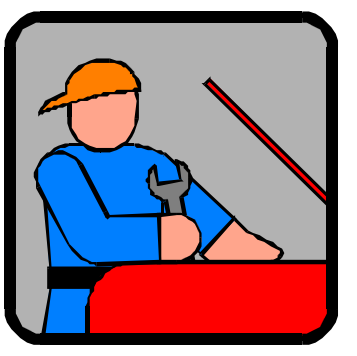
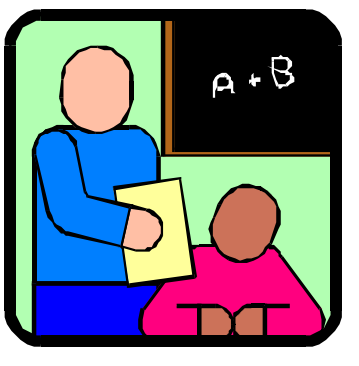
1 credit, Performance Based
Prerequisite: Spanish I
(9th - 12th Grade)
Spanish 2 is a continuation of the work done in Spanish I, focusing on additional performance-based activities, with a focus on Career and Technology Education. Students continue to develop their skills in speaking, listening, reading and writing, as well as expanding their cultural knowledge. Students participate in a variety of communicative experiences including skits, songs, videos, meals, and festivals. Topics include (but are not limited to) job interview and resume building skills, the culinary arts, the medical field and agriculture.

Spanish III

1 credit
Prerequisite: Spanish II
(10th - 12th Grade)
Students will continue developing listening and speaking skills while furthering their ability to read and write Spanish at the intermediate level. New and practical vocabulary will be acquired at a rapid pace. Cultural readings and discussions will be the focus of many class sessions. As in all language levels, students will develop their skills by participating in communicative language activities.

Spanish IV

1 credit
Prerequisite: Spanish III
(10th - 12th Grade)
In this course, Hispanic culture will be taught wholly in Spanish. Emphasis will be placed on using the language to describe cultural elements, analyze sociological trends, make connections between the history and artistic products, present information to classmates and gather information from a variety of Spanish resources.

AP Spanish Language

2 credits
Prerequisite: Instructor approval
(11th - 12th Grade)
The AP language portion of the course covers the equivalent of a third-year college course in advanced Spanish composition and conversation. It stresses oral skills, composition, and grammar. Students will be able to comprehend formal spoken Spanish, acquire a sophisticated vocabulary for accurate reading of newspaper and magazine articles as well as modern Hispanic literature, compose expository passage, and express ideas orally with accuracy and fluency. Students who take the class may take the AP Spanish language examination in May.