

2017-2018

BOYLE COUNTY HIGH SCHOOL

COURSE DESCRIPTION BOOK



"In this course description book you will find Dual Credit opportunities through WKU, CU, ECU, MSU and BCTC....over 60 college credit hours available to choose from! College dual credit courses, coupled with 17 AP courses, makes BCHS the only high school in Central Kentucky to offer such a wide variety of rigor.

These are for our students, taught by our teachers and all in our building!"



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REQUIREMENTS FOR GRADUATION FROM BOYLE COUNTY HIGH SCHOOL

You are about to make important decisions about your class schedule for next year. During this process, it is imperative that you work closely with your advisor, counselor, and parents. As you review class choices, pay careful attention to course prerequisites and grade levels for that course. Please plan carefully when making your course selections! The only schedule changes that will be made are those involving documented errors. No schedule changes will be made based on teacher preference.

A student must successfully complete the required courses for each core content area as outlined below by year of graduation:

GRADUATION REQUIREMENTS

All high school graduates of the District are required to complete the following:

GRADUATING CLASS OF 2015 AND BEYOND	
Course Area	Courses
English-4 courses	English I (year-long course=1 credit) English II (year-long course=1 credit) English III (year-long course=1 credit) English IV (semester course=1 performance based credit*)
Math-each year	Algebra I (year-long course=1 credit) Geometry (year-long course=1 credit) Algebra II (year-long course=1 credit) Additional course(s)...see Math section (1 performance based credit*)
Science-3 courses	Integrated Science (semester course=1 performance based credit) Biology (year-long course=1 credit) Chemistry (year-long course=1 credit) OR Integrated Science II (semester course=1 performance based credit*)
Social Studies-3 courses	World Civilization (year-long course=1 credit) U.S. History (year-long course=1 credit) American Government (year-long course=1 credit)
Arts/Humanities-1 course	Arts and Humanities (semester course=1 performance based credit*) OR An additional course...see Arts & Humanities section
Wellness-1 course	Wellness (semester course=1 performance based credit*)
ELECTIVES	Varies depending on course selection.
Digital Literacy	Digital Literacy Course (or pass digital literacy competency exam)

Minimum of 22 credits to graduate.

****Performance Based Credit***

Students will earn credit toward high school graduation through the district's standard's based, performance based credit system that complies with requirements of Kentucky Administrative Regulation (704 KAR 3:305). Semester-long courses are less than 120 seat hours (120 seat hours=1 Carnegie Credit). These semester-long classes will be equal to 1 Performance Based Credit. Classes that are not performance based credit may be .5 credit (these are noted in the course description book). Credit amounts will alter GPA.

II. CLASSIFICATION OF STUDENTS

Student grade level classification after 10th grade is based on credits earned toward graduation. Classifications are updated twice an academic year, prior to the start of the school year and after first semester grades are complete.



The following chart will help you identify the number of credits required for each grade level:

This table reflects the changing number of credits required for graduation as a result of schedule changes at BCHS between 2011 and 2013		2015-2016 and beyond
	9 th grade	1 st year student
	10 th grade	2 nd year student
	11 th grade	Minimum of 10 credits and on track to graduate* in 4 th year of enrollment
	12 th grade	Minimum of 16 credits and on track to graduate* in current school year
	Graduation	Minimum of 22 credits including all graduation requirements**

* On track to graduate means that a student has failed no more than two credits required for graduation. Refer to the chart below to see graduation requirements broken down by grade level

** Graduation requirements are defined in the chart on pg. 3

CORE REQUIREMENTS AT GRADE LEVEL

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English I	English II	English III	English IV
Math	Math	Math	Math
	World Civilization	US History	American Government
Science & Engineering	Biology	Chemistry or Integrate Sci II	Arts & Humanities (if requirement not met)
Wellness			

PRE-COLLEGE CURRICULUM

Kentucky Pre-College Curriculum Certification must include a minimum of the following:

MATH – Algebra I, Geometry, and Algebra II

SCIENCE – Chemistry

FOREIGN LANGUAGE – Two credits are required for pre-college curriculum



BCHS DROP/ADD POLICY

The only schedule changes that will be made are those involving documented errors. No schedule changes will be made based on teacher preference. Students may switch between levels of a course (ex. Honors English I to English I) with teacher permission during the first two (2) weeks of a semester. No schedule changes will be allowed after the second week of a semester unless required by an ARC.

Students taking AP courses are required to sign an AP Contract. That contract states that schedule changes will not be allowed regardless of the circumstances after the first two weeks.

KENTUCKY EDUCATIONAL EXCELLENCE SCHOLARSHIP (KEES)

The Kentucky Educational Excellence Scholarships are offered to graduating seniors who will attend a Kentucky college, university or technical school. Amounts are determined by the state based on a student's GPA from each year of high school. A bonus is offered for a 15 or better on the ACT. KHEAA allows weighted credit for AP and dual-credit classes. It is the student's responsibility to make sure that his / her correct social security number is on file with Boyle County High School.

Beginning with the 2012-13 school year, regulatory changes to the KEES curriculum requirement will take effect, limiting the number of co-operative (co-op) education credits that can count toward meeting the requirement to one course per academic year. Students choosing to participate in the co-op courses will need to take at least four other courses to meet the five-course minimum and earn a KEES award.

It is important to note, however, that as long as graduation requirements are completed at a certified Kentucky high school, students will remain eligible for any KEES awards earned during prior academic years, including their bonus awards from taking the ACT / SAT and, if applicable, Advanced Placement and / or International Baccalaureate exams. The intent is not to penalize students who wish to participate in a co-op program, but rather motivate students to remain engaged in a rigorous academic curriculum throughout their senior year. Contact KEES at 1-800-928-8926 or www.kheaa.com.

YOUR RESPONSIBILITY AS A PROSPECTIVE COLLEGE STUDENT / ATHLETE

Prospective Division I, Division II or Division III Athletes, must register with the NCAA Initial-Eligibility Clearinghouse. Standards are constantly changing, and it is the student's responsibility to ascertain that he/she meets NCAA requirements. The clearinghouse recommends that all student contact be made via their website, www.ncaaeligibilitycenter.org, the cost is \$75.00. Prospective NAIA Athletes must register with the NAIA eligibility center at www.playnaia.org, the cost is \$75.00.

CREDIT TRANSFER AND GRADING POLICY

Courses at Boyle County High School are classified as Performance Based credits (entire course is completed in one semester) and Carnegie Unit credits (A/B courses, AP Courses and other year long courses). One full (1) credit will be awarded at the end of the semester for a "Performance Based" course and One-half (1/2) credit will be awarded for "Carnegie Unit" course upon successful completion of the course work. Below are grading policies for each type of course:

ALL EOC & A/B Year-long Classes (Carnegie Unit):

- 1st semester (A class) (40% 9 wks + 40% 9 wks + 20% cumulative final exam)
- 2nd semester (B class) (40% 9 wks + 40% 9 wks + 20% EOC/cumulative final at end of B class)

*If a student fails one section but has a passing cumulative average at the end of the school year then the student will earn .5 credit for each section (A & B). The recovered .5 credit will be issued with a 70%.

ALL Other Year-long Classes (Carnegie Unit):

- 1st semester 50% (20% 9 wks + 20% 9 wks + 10% fall cumulative final exam)
- 2nd semester 50% (20% 9 wks + 20% 9 wks + 10% spring cumulative final exam)

ALL Semester-long Classes (Performance Based):

Semester Class 100% (40% 9 wks + 40% 9 wks + 20% cumulative final exam)



Credits transferring from an accredited school will be reflected on the student's transcript and will be issued with the grade and weight assigned from the issuing school. The only exceptions to this policy are as follows: courses cannot be weighted to exceed the maximum weight issued for an equal credit at Boyle County High School and the only courses that can receive a weighted grade (5 pt scale) are AP courses taught through an accredited institution (excluding online courses not supervised by a teacher).

Credits transferring from a non-accredited school (home school, non-accredited private schools, etc) will be reflected as Pass/Fail on the student transcript and will not be used in the computation of class rank and grade point average. Transferring students may be required to demonstrate proficiency in course material before credit is applied towards graduation requirements.

Students enrolled in an approved dual credit course will receive academic credit at Boyle County High School based on the course in which they are enrolled. Students in such courses may not receive more credit than students enrolled in a similar course at Boyle County High School.

The Principal of Boyle County High School has the final authority regarding the transfer of credit.



Boyle County High School STEM Course Requirements

STEM is an acronym for science, technology, engineering and mathematics; however, the concept of STEM encompasses critical thinking, problem solving and other skills necessary for 21st century success. You will find courses throughout this course description book that are STEM by locating the STEM logo.

STEM courses at BCHS will include:

- Specific standards/targets in three out of the four STEM (Science, Technology, Engineering or Math) areas
Example: A chemistry STEM class would need to identify not only chemistry standards to be taught in the course but also standards in technology and math.
- Problem-solving, discovery and exploratory learning that requires students to actively engage in a situation in order to find its solution
- Innovative instruction that allows students to explore greater depths of all of the subjects by utilizing the skills learned
- At least one 21st century Project Based Learning Unit included in each nine weeks of instruction. PBLs must include rigorous standards, real work and a presentation at the end of each project to a relevant audience (Science Fair Model) PBL Units will include a multiple choice and constructed response unit test and a rubric designed to assess the product (if applicable) and presentation.
- By nature, STEM classes will incorporate 21st Century Skills such as problem solving, critical thinking, collaboration and communication skills. Each STEM class will also further develop 3 specific 21st Century Skills.



21st CENTURY SKILLS BANK

Listed with each course description is a set of three 21st Century skills that are most prevalent in the course.

Ways of Thinking

1. Creativity and Innovation/Imagination
2. Critical Thinking
3. Curiosity
4. Perseverance
5. Problem Solving
6. Risk-taking

Ways of Working

1. Collaboration and Teamwork
2. Communication
3. Entrepreneurialism
4. Initiative
5. Leadership and Responsibility
6. Productivity
7. Time Management and Organization

Tools for Working

1. Entrepreneurial Literacy
2. Financial Literacy
3. Information Literacy
4. Media Literacy
5. Technical Literacy

Living in the World

1. Civic Literacy
2. Dependability
3. Ethics
4. Flexibility
5. Global and Cultural Literacy



“EARLY COLLEGE PROGRAM”

Dual credit is awarded when a high school and a postsecondary institution give credit to a high school student for the same course. The objective of dual credit courses is to offer high school students an opportunity to take affordable, high-quality college courses. Through a cooperative agreement with **Western Kentucky University, Campbellsville University, Murray State University, Eastern Kentucky University, and Bluegrass Community & Technical College** students may enroll in a dual credit course that generally transfers to the college or university. For purposes of grade point average, dual credit classes taken simultaneously as an AP course will be factored as an AP course.



Western Kentucky University offers a unique dual credit program. All of the WKU dual credit classes will be offered at BCHS by BCHS teachers!

NOTE: WKU also offers over a dozen online classes that are available for \$165. See your counselor and complete the required form.

General Information:

- \$165.00 per class (subject to change).
- Credits transfer to most state schools
- Each course has specific requirements.
- No application fee.
- Textbooks are free.
- AP classes may count for college credit.



Campbellsville University will also offer classes at BCHS. All of the CU dual credit classes will be offered at BCHS by BCHS teachers!

General Information:

- \$165 per class (subject to change).
- Credits transfer to most state schools.
- GPA of 3.25 and ACT composite score of 21 required & corresponding ACT sub score of 19 OR...
- GPA of 3.00 and ACT composite score of 23 required & corresponding ACT sub score of 19 OR...
GPA of 3.25 & in 60 percentile on PLAN or PSAT (both composite and subscore)
- Application Fee is free.
- Textbooks are free.



EKU has a scholarship program for high school juniors and seniors. This scholarship lets you take one course for FREE each fall and spring semester at the EKU-Danville Campus.

- You must be a junior or senior in high school.
- You must have a GPA of 3.0 and ACT scores on file with EKU at the time you apply for the program.
- You must have minimum ACT scores of 18 in English, 19 in Mathematics, 20 in Reading and a composite ACT score of 21.
- Complete required form in guidance.

To take additional courses:

1. If you are a student with a composite ACT score of 23 and a 3.5 unweighted GPA or higher when you apply, then you may take a second course for **FREE!**





BCTC OPPORTUNITY COLLEGE is collaboration between area high schools and Bluegrass Community and Technical College to provide junior and senior high school students with the opportunity to earn college credit while still in high school. Credits are earned through either Dual Credit Courses or Dual Enrollment Courses.

DUAL CREDIT COURSES are presently available in technical career programs taught at the local high schools, Area Technology Centers and Career and Technical Centers. Students are enrolled in both their high school and the college simultaneously and receive credit from both institutions for the same course. Tuition for these courses is waived.

BCTC Dual credit courses are offered in the following departments at BCHS and Garrard County: Health Science, Drafting, Carpentry, and Welding

DUAL ENROLLMENT COURSES: High school juniors and seniors may be enrolled in high school and at Bluegrass Community and Technical College (BCTC) concurrently, but will only receive credit at the college (unless the high school has approved the course for high school credit). Students are responsible for all costs related to tuition, books and fees. Students must meet required ACT and/or COMPASS scores, as well as prerequisites, in order to enroll in these courses. Students are responsible for their own transportation. The course schedules follow the college's academic calendar and may require students to attend class on days when their high school is not in session.

General Information:

- These classes may not transfer to other colleges.
- \$50 enrollment fee/term (if taken in the same semester, this fee will cover up to two classes).

Need Money for Dual Credit courses? Apply for the **Mary Jo Young Scholarship** through KHEAA. This scholarship is for high school students in grades 9 through 12 enrolled in dual credit classes at any college or university or students taking Advanced Placement courses through the Kentucky Virtual High School. Students can receive tuition and book reimbursement for up to two courses each semester. Awards are made with priority to low-income students.

Applications are available at <http://www.kheaa.com/pdf/forms/mjyapplication.pdf>

Important Note: It is the student's responsibility to check with the college or university in which he/she plans to enroll about the acceptance and transferability of dual credit courses. There is no guarantee on the part of Boyle County High School that these courses will be accepted or transferred to other colleges and/or universities.

***Students who take courses online or off-campus must complete the required Dual Credit Agreement.**





**Boyle County High School
AP Program
“16 AP classes...most in the area!”**

AP Philosophy Statement

Advanced Placement (AP) courses offer the high school student the demands of college level work. The College Board establishes the curriculum guidelines for each AP course and administers the nationwide AP tests given in May. AP teachers at BCHS structure and teach the classes on a day-to-day basis. Students should expect to handle the rigor and work load of a college course within the supportive environment of the high school. AP students should enroll in the course expecting to prepare for the AP exam in that subject area. While there is merit to taking a challenging course at any time, AP classes target a specific audience of prepared, conscientious, motivated students who wish to attempt to earn college credit while still enrolled in high school. Both student and parent must be aware that these courses are comparable to rigorous college courses.

All AP courses will be weighted; weighting will be applied to the final grade at the end of the course.

It is imperative that students and parents understand the commitment before making the obligation because SCHEDULE CHANGES WILL NOT BE ALLOWED REGARDLESS OF THE CIRCUMSTANCE AFTER THE FIRST TWO WEEKS.

In order to enroll in any AP class at BCHS, students should:

- Consult the course description for each AP class to **see if you meet the prerequisites**. For some AP courses, there will be MANDATORY summer assignments, which will be due without exception the first week of school.
- Plan to attend one of the AP informational sessions with a parent or guardian.
- Complete the **AP Enrollment Contract** (available from advisors or in guidance). This form requires a parent signature.
- Take the **completed AP Contract** to preregistration. Students with no form or incomplete forms WILL NOT be able to enroll in any AP course.

The following AP classes are offered every year if there are at least 12 that enroll for the AP class:

<u>AP CLASS LIST</u>	<u>OPEN TO GRADES</u>	<u>AP CLASS LIST</u>	<u>OPEN TO GRADES</u>
AP Art-Portfolio Drawing	10-12	AP English Literature	12
AP Art-Two Dimensional Design	10-12	AP Environmental Science	9-12
AP Art-Three Dimensional Design	10-12	AP Government	12
AP Biology	10-12	AP Human Geography	9-12
AP Calculus AB	10-12	AP Psychology	11-12
AP Calculus BC	11-12	AP Spanish	10-12
AP Computer Science	10-12	AP United States History	11
AP Chemistry	11-12	AP World History	10-12
AP English Language	11	AP Statistics	11-12





“If I fail a class, how can the BCCHS Credit Recovery Program help me?”

In-Class Credit Recovery

Students will enroll for this class during April scheduling window and take the class during the school day as part of their schedule.

Students will...

1. Inform Counselor of need to take a Credit Recovery Class
2. Schedule Credit Recovery class as a class for the following year.
3. Fees must be paid within the first 3 days of the semester to the classroom teacher.

Fee Structure
 \$100 for 1st class,
 \$50 for each additional class

Free/Reduced Lunch Students
 \$50 for 1st class,
 \$25 for each additional class

Independent Credit Recovery

Work is done independently outside of the school day. Students can enroll at any time if space is available.

Students will...

1. Meet with counselor
2. Enroll with Mr. Tatum
3. Pay fees at time of enrollment.

Fee Structure
 \$100 for 1st class,
 \$50 for each additional class

Free/Reduced Lunch Students
 \$50 for 1st class,
 \$25 for each additional class

Summer School Credit Recovery

Students can enroll in May once the Summer School schedule is announced.

Students will...

1. Meet with counselor
2. Enroll with Mr. Tatum
3. Pay fees at time of enrollment.

Fee Structure
 \$100 for 1st class,
 \$50 for each additional class

Free/Reduced Lunch Students
 \$50 for 1st class,
 \$25 for each additional class

NOTE: If class is not completed in 90 days, there is an additional \$50 fee (\$25 for free/reduced lunch students)

Student/Parent Contract

I, _____, understand that following in regards to the BCCHS Credit Recovery Program...

- I understand that progress will be checked on a weekly basis and failure to make steady progress will result in removal of the program with NO REFUND.
- I understand when it is time for a mid-term or final exam that I must make arrangements with the Credit Recovery Coordinator and take these assessments at school.
- I will put forth good faith effort weekly and realize it is an expectation that I will finish my credit within the allotted time.
- I understand that if I do not finish the credit in the allotted time, I will be required to pay the additional fee.
- I understand all fees for the Credit Recovery Program are non-refundable.
- The maximum score I can attain for this class is limited to a 70%.

Student Signature

Parent Signature

Start Date

Parent Email

ONCE CONTRACT IS COMPLETED, RETURN THIS FORM TO YOUR COUNSELOR.

To be filled out by your Counselor

Class to be recovered _____ (Failing %) _____ Counselor's Initial _____





AGRICULTURE DEPARTMENT

Students may choose to be an “Agriculture Explorer” and take a variety of Agriculture classes, or they may choose to focus in a specific area or areas and become eligible to take the KOSSA test for 3 hours college credit. Listed below are the KOSSA (KY Occupational Skills Standards Assessment) areas and the courses requirements to be fulfilled before becoming eligible to be tested. Students receive credit for each exam by meeting minimum scores for the exam and scoring a minimum of a “B” in the 3 required courses in that area.

HORTICULTURE	AGRIBUSINESS	AG. POWER, STRUCTURAL & TECHNICAL SYSTEMS
Principles of Agriculture Floral/Landscape Greenhouse Technology Ag. Employability Ag. Sales & Marketing Ag. Ed. Co-op	Principles of Agriculture Ag. Ed. Co-op Ag. Employability Skills Ag. Communications I Ag. Sales & Marketing Greenhouse Tech. Small Animal Tech.	Principles of Agriculture Ag. Construction Skills Ag. Structures & Design Small Power Equipment Ag. Sales & Marketing Ag. Employability Ag. Ed. Co-op

ANIMAL SYSTEMS	ENVIRONMENTAL & NATURAL RESOURCES
Principles of Agriculture *Animal Science Equine Science Small Animal Sci. & Tech. Veterinary Science Ag. Sales & Marketing MSU Adv. Animal Science Aquaculture Ag. Employability Ag. Ed. Co-op	Principles of Agriculture *Forestry Wildlife Resources Aquaculture Ag. Employability Ag. Sales & Marketing Greenhouse Technology Ag. Ed. Co-op

*HIGHLY RECOMMENDED

The Agriculture Education Program at Boyle County High School is designed to be a four year program that provides career exploration, orientation and preparation for students who have an interest in any of the countless opportunities in or related to agriculture. Our goal is to assist students in developing realistic and challenging goals for career development and personal success. Class work contains academic applications and problem-solving activities. All students are encouraged to plan and pursue post-secondary education or job training in the pursuit of a wisely planned occupational goal.

Agriculture students should expect their class work to include laboratory study, development of job skills, independent projects and group work. Students are to plan and complete supervised experience programs through entrepreneurship or job placement. All students are expected to develop leadership skills through active participation in the FFA organization, an intra-curricular youth organization linking all agriculture students nationwide. Students are encouraged to join FFA and participate in any of the following activities:

Public Speaking
National Convention
FFA Camp
Livestock Exhibition
Community Service Project

National FFA Convention
Livestock Production
KY State Fair Competition
Creed Speaking Contest

Record Keeping Contests
Parliamentary Procedure Contests
Agriculture Proficiency Contests
Agriculture related work experience
Regional Leadership Conferences



5820 PRINCIPLES OF AGRICULTURE SCIENCE AND TECHNOLOGY - 9th Grade (10th grade permitted only with instructor approval) (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Collaboration & Teamwork, Entrepreneurialism

This class is for first year agriculture students in 9th or 10th grade only. This course introduces students to the various segments of the agricultural industry. Agricultural career opportunities will be emphasized. Basic animal science, plant and land science, and agricultural mechanics skills will be introduced. The selection and planning of a supervised agricultural experience program and related record keeping will be presented. Leadership development will be provided through FFA. Students will receive personal guidance and counseling with preparatory instructional program selection.



ANIMAL SCIENCE - Grades 10-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Entrepreneurialism

Animal Science develops basic 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 biotechnological application will be included. The content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.



9936 GREENHOUSE TECHNOLOGY I Grades 10-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Leadership & Responsibility, Productivity, Entrepreneurialism

Students can take A during 1 period only OR A & B which would take up to 2 periods for 2 credits. Students may not take B only. Greenhouse Technology provides instruction in greenhouse structures and greenhouse environment regulations. Plant growth and development and propagation are included, as well as, production and maintenance of bedding and container produced plants. Fundamental principles of vegetable production and commercial production of vegetable crops may be included. Content may be enhanced with appropriate technology. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.



1136 GREENHOUSE TECHNOLOGY II Grades 10-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Productivity, Flexibility, Dependability

GREENHOUSE TECHNOLOGY 2 (Grades 11-12) Semester Long class offered in Spring Only Greenhouse Technology II provides further instruction in greenhouse production and marketing. This class provides hands on learning in the school greenhouse in production and maintenance of bedding and container produced plants. Principles in propagation, plant growth and marketing are continued. Students may take Greenhouse Technology II after taking Greenhouse Technology I OR in conjunction with Greenhouse I. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.



1119 AGRICULTURAL CONSTRUCTION SKILLS Grades 11-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Collaboration & Teamwork, Dependability

Students can take A during 1 period only OR A & B which would take up to 2 periods for 2 credits. Prepares students to construct and maintain agricultural structures and equipment. Develops basic skills such as: tool identification, interpreting plans, calculating a bill of materials, electrification, carpentry, welding, metal fabrication, plumbing and masonry. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program. The course may be extended to two credits offered on a two-hour basis provided that instruction is enhanced with laboratory experience, project construction, and in-depth skill development.



1118 AGRICULTURAL STRUCTURES AND DESIGN (AG CONSTRUCTION 2) Grades 10-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Collaboration & Teamwork, Dependability

This course prepares students to evaluate, design and construct agricultural structures. Students learn to design, evaluate and interpret construction plans and calculate a bill of materials. The skills learned in the Agricultural Construction Skills course may be incorporated to construct an agricultural structure. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program.



1115 SMALL POWER EQUIPMENT - Grade 11-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Dependability, Productivity, Entrepreneurialism

This course provides instruction and hands-on experience in basic principles of agricultural machinery assembly, operation, maintenance, service, repair and safety. This course will also aid in the development in maintenance, repair, and operation of equipment, small combustion-type engines an electric motors. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.



1117 EQUINE SCIENCE - Grades 10-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Collaboration & Teamwork, Problem Solving, Critical Thinking

Equine science develops knowledge and skill pertaining to breed identification and selection, anatomy, physiology, nutrition, genetics, and reproductive management, training principles, grooming, health disease, parasite control and sanitation practices. Content may be enhanced with appropriate computer application. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program



5843 SMALL AND SPECIALTY ANIMAL TECHNOLOGY - Grades 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Problem Solving, Curiosity, Communication

This course develops scientific knowledge, management practices, and marketing strategies in small and specialty animal technology. The curriculum includes identification, anatomy, physiology, nutrition, health, selection and care of small animals such as dogs, cats, rabbits, companion birds, ostriches, emus, tropical fish, and fur bearers. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program

5849 AGRICULTURAL COMMUNICATIONS I – Grades 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Collaboration & Teamwork, Technical Literacy, Leadership & Responsibility

This course develops an understanding of fundamental skills necessary to be successful in the agricultural communications industry. Provides guided practice and applied experience utilizing various styles of communication including oral, written, and electronic communications. Techniques of communications will include: traditional print media, brochure development, photography, videography, computer program applications, and Internet usage. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.

7780 AGRICULTURAL COMMUNICATIONS II– Grades 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Collaboration & Teamwork, Technical Literacy, Leadership & Responsibility

This course develops an understanding of fundamental skills necessary to be successful in the agricultural communications industry. Provides guided practice and applied experience utilizing various styles of communication including oral, written, and electronic communications. Techniques of communications will include: traditional print media, brochure development, photography, videography, computer program applications, and Internet usage. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program. THIS COURSE IS HELD IN CONJUNCTION WITH AGRICULTURAL COMMUNICATIONS I AND IS ONLY FOR STUDENTS WHO HAVE COMPLETED AG COMM I.

5847 VETERINARY SCIENCE – Grades 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Initiative, Critical Thinking, Problem Solving

This course introduces students to the field of veterinary science. Major topics include veterinary terminology, safety, sanitation, anatomy/physiology, clinical exams, hospital procedures, parasitology, posology, laboratory techniques, nutrition, disease, office management, and animal management. Careers are also explored. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.

8727 LANDSCAPE/FLORAL DESIGN – Grade 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Productivity, Communication, Problem Solving

This course combines landscaping and floriculture. The material includes identification of landscape plants and their characteristics, site evaluation, site design, and installing landscape plans. Also, instruction will include instruction to develop floral design techniques using silk, dried, and fresh flowers. Students will learn operation and management techniques of a florist business as well as identification, production and cultural maintenance practices of plants used in floral design and interior landscaping. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.

5850 AQUACULTURE-Grade 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Dependability, Flexibility, Problem Solving

This course is an introduction to aqua-cultural science. Instruction provides the fundamentals of aquatic plant and animal biology, anatomy/morphology and physiology in aquaculture, and the unique properties of water for aquaculture. Instruction also includes fish and aquatic crop production principles, management and marketing. Applications of biotechnology in aquaculture and aquaculture as sustainable agriculture is also included. Content will be enhanced with appropriate applied scientific laboratory activities and computer applications. Leadership development will be provided through FFA. Each student will be expected to have

5848 WILDLIFE RESOURCES (ENVIRONMENTAL TECHNOLOGY) Grade 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Problem Solving, Critical Thinking, Flexibility

This course is an intermediate scientific study of environmental technology. It is designed to develop an awareness of environmental concerns related to wildlife, water, soil, and agronomy. The course will include an emphasis on learning in a laboratory setting and provide students with experiential learning opportunities. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program.

5851 FORESTRY –Grades 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Problem Solving, Critical Thinking, Flexibility

This course introduces the science of silvi-culture. The course includes career opportunities, tree identification, tree production, forestry management, timber harvesting, wood utilization and the environmental and ecological aspects of forestry. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.

5852 AGRICULTURE EMPLOYABILITY SKILLS- Grade 12 Only (**year long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Entrepreneurialism, Productivity

This class is offered to senior agriculture students and is a work release program. Agricultural employability skills provides opportunities to develop skills in: job searching, preparing resumes, writing letters of application, job interviews, attitude at work, communicating effectively, human relations and accepting responsibilities. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.

PREREQUISITE: One Agriculture credit



5856 AGRICULTURE SALES & MARKETING Grade 10-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Entrepreneurialism, Collaboration and Teamwork

This course provides an introduction to agricultural sales and marketing. Course material will include: competition in the agriculture market place, marketing decisions, types of markets, contracting, government programs and regulations, personal development, employee and employer responsibilities, communications, promotion strategies, records, files, purchasing materials, stocking, selling and business account procedures. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.

7778 AGRICULTURE CO-OP Grade 12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Dependability, Ethics

AGRICULTURE CO-OP (Grade 12 only) Offered Year Long or for only one Semester Agriculture Co-Op is offered to senior agriculture students and is a work release program. Students may take this class alone or in conjunction with Agriculture Employability Skills. Students are required to report to a work site for a minimum of 10 hours per week and will be provided with skills in searching for a job, writing a resume, and proper communication skills. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.

PREREQUISITE: One Agriculture credit

5823 INTRODUCTION TO HORTICULTURE Grades 10-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Productivity, Flexibility, Dependability

Plant and Land Science develops basic scientific knowledge and skills pertaining to management of the land and its effects on food and fiber production, the environment, and the quality of life. There will also be a heavy emphasis on horticulture included with the course. The relationship of land to plant growth will be emphasized. Plant composition, reproduction, growth, and current biotechnological advances will be included. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.

Prerequisites: Principles of Agricultural Science & Technology





ARTS & HUMANITIES DEPARTMENT

VISUAL ARTS

The VISUAL ARTS courses are designed to be integrated into the general curriculum and also to provide pathways for those students interested in one of the many visual arts careers. One course in visual arts meet the Arts & Humanities requirement.

2809 INTRODUCTION TO ART Grades 9-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Curiosity, Creativity & Innovation/Imagination, Perseverance

Introduction to Art allows students the opportunity to review the art elements and principles of design. They will become familiar with the purposes of art as they critique the various art styles and periods. Students will create and identify nonrepresentational and representational art through a range of studio activities. This class is an overview into drawing, painting, sculpting, ceramics, printmaking, and textile art. Students will be required to purchase a sketchbook.

2803 STUDIO EXPLORATION I Grades 9-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Curiosity, Creativity & Innovation/Imagination, Perseverance

Studio Exploration is designed to offer students opportunities to draw, paint and sculpt from both observed and imaginary forms. Classroom activities will concentrate upon using the principles of design to organize the art elements into dynamic original compositions. It includes an in depth study of Frank Lloyd Wright's modern architecture. Students will be challenged to develop their creativity through contour, gesture and value drawings. Color theory will be introduced through water color paintings. Students will gain an appreciation for Asian art and architecture through printmaking, silk, calligraphy and ceramic studio projects. Students will be required to purchase some supplies and a sketchbook.

2804 STUDIO EXPLORATION II Grades 10-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Curiosity, Creativity & Innovation/Imagination, Perseverance

Studio Exploration II is an extension of the techniques, materials and skills used in Studio Exploration I. Advanced techniques will be used to create the illusion of weight, mass, volume, and perspective through drawing. Students will be introduced to acrylic paints and challenging ceramic building techniques. Self-expression and development of artistic style will be emphasized. Students will identify and appreciate works of art from the Renaissance, Neoclassical and Romantic periods. Students will be required to purchase some supplies and a sketchbook.

PREREQUISITE: Studio Exploration I or Introduction to Art with a grade of 75% or higher.

2805 PAINTING I Grades 11-12 (semester long course) **2808 PAINTING II** Grades 12 (instructor approval required) 1 credit

21st CENTURY SKILLS FOCUS AREA: Curiosity, Creativity & Innovation/Imagination, Perseverance

Painting explores various painting techniques, elements of composition and color concepts. Students will draw inspiration from in depth studies of artists from the Realistic movement, Impressionism period and Modern and Contemporary European and American styles. Students will be encouraged to develop their own artistic style through a series of painting challenges. Students will be required to purchase a sketchbook. A **studio fee of \$5** will be required.

PREREQUISITE: Studio Exploration I or Introduction to Art with a grade of 85% or higher.

2806 CERAMICS I Grades 10-12 (semester long course) **2807 CERAMICS II** Grades 12 (instructor approval required) 1 credit

21st CENTURY SKILLS FOCUS AREA: Curiosity, Creativity & Innovation/Imagination, Perseverance

This course will explore many facets of designing and creating three dimensional works. Both functional and purely sculptural work will be investigated. A **studio fee of \$5** will be required.

PREREQUISITE: Studio Exploration I or Intro to Art with a grade of 75% or higher.

ADVANCED PLACEMENT VISUAL ART COURSES

The art Advanced Placement Portfolio courses enable highly motivated students to do college-level work in art while still in high school. The courses involve significantly more time and commitment than most high school art courses and are intended for students seriously committed to studying art. The evaluation for college credit of students enrolled in art AP courses is not based on a written examination. Candidates' portfolios of work are sent to Princeton, New Jersey for evaluation by professional artists and teachers selected by the College Board. Students are responsible for any examination fees as well as costs incurred for preparing the portfolio and submitting artwork through the mail and via digital submission of files.

This is a yearlong course and to earn credit students will need to register for both an A (Fall) and a B (Spring) section.





2812 AP ART PORTFOLIO DRAWING ADVANCED PLACEMENT Grades 10-12 (year long course/weighted) 1 credit

21st CENTURY SKILLS FOCUS AREA: Curiosity, Creativity & Innovation/Imagination, Perseverance

The drawing portfolio course is designed to address a very broad interpretation of drawing issues. Paintings, printmaking, abstract and observational works of art are included in a drawing portfolio. This portfolio allows for a more specific course of study that parallel specialized drawing curriculums and programs in college and university are departments as well as in art schools. Works presented in the portfolio may have been produced in art classes and may cover a period longer than a single school year. IT MUST BE ORIGINAL WORK!!!! Work presented in an Advanced Placement Drawing portfolio may not be included in other Advanced Placement portfolios at another time. The portfolio is submitted as both original pieces and as digital images of selected pieces that represent the student's best works and includes a written artist statement defining the student's focus of concentration.

PREREQUISITITE: Studio I or Intro to Art with a grade of 90% or higher. Must have art instructor's approval and signature.



2813 AP ART 2-DIMENSIONAL DESIGN ADVANCED PLACEMENT Grades 10-12 (year long course/weighted) 1 credit

21st CENTURY SKILLS FOCUS AREA: Curiosity, Creativity & Innovation/Imagination, Perseverance

The 2-D portfolio is designed to address a very broad interpretation of 2-D design issues. This type of design involves purposeful decision-making about how to use the elements and principles of art in an intuitive way. For this portfolio students are asked to demonstrate proficiency in two-dimensional design using a variety of art forms. These could include, but are not limited to, graphic design, digital imaging, photography, collage, fabric design, illustration, painting, and printmaking. The portfolio is submitted as both original pieces and as digital images of selected pieces that represent the student's best works and includes a written artist statement defining the student's focus of concentration.

PREREQUISITITE: Studio I or Intro to Art with a grade of 90% or higher. Must have art instructor's approval and signature.



2814 AP ART 3-DIMENSIONAL DESIGN ADVANCED PLACEMENT Grades 10-12 (year long course/weighted) 1 credit

21st CENTURY SKILLS FOCUS AREA: Curiosity, Creativity & Innovation/Imagination, Perseverance

The 3-D design portfolio course is intended to address a very broad interpretation of sculptural issues in depth and space. Such elements and concepts can be articulated through additive, subtractive and/or fabrication processes. A variety of approaches might include jewelry, traditional sculpture, architectural models, apparel, ceramics, fiber arts or metal works. The portfolio is submitted as digital images of selected pieces that represent the student's best works and includes a written artist statement defining the student's focus of concentration.

PREREQUISITITE: Studio I or Intro to Art with a grade of 90% or higher. Must have art instructor's approval and signature.

MUSIC & OTHER FINE ARTS

It is the purpose of the Music Department at Boyle County High School to provide interested and dedicated music students the opportunity to develop skills and talent, permitting them the best opportunity to pursue music at the next level. It is our aim to provide courses for students choosing music as a career, but also to allow options for students interested in experiencing the musical arts during High School. One course (.5 credit) in music and theatre meet the Arts & Humanities graduation requirement.

1121 VOCAL INFINITY CONCERT CHOIR Grades 9-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Creativity & Innovation/Imagination, Perseverance, Leadership & Responsibility

Mixed choir, open to all students who love to sing and perform. Performance will be a major portion of the grade. Some use of foreign languages. No audition, but previous experience appreciated!

2833 INSTRUMENTAL MUSIC Grades 9-12 (yearlong course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Creativity & Innovation/Imagination, Perseverance, Leadership & Responsibility

This class is intended for students that already have musical experience on a wind or percussion instrument. The class will be split into seasons with marching band being roughly the first nine weeks and concert band the last 27 weeks. The class will run the entire year which will allow you to audition for all-regional and all-state bands and participate in them after the winter break. The marching band will perform at all home football games and several competitions on Saturdays in the fall. The concert band will give two concerts during the school year and participate in KMEA concert band festivals in the Spring.

2827 JAZZ BAND Grades 9-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Creativity & Innovation/Imagination, Perseverance, Leadership & Responsibility

This class will perform the classic and modern "big band" charts. The band will perform at some basketball games and other community events. The band will be composed of the typical "big band" instrumentation: sax section, trombone section, trumpet section, and rhythm section (drum set, bass, piano, and guitar). Students will not only learn to play written notation but also improvise around chord changes.

2825 PERCUSSION Grades 9-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Creativity & Innovation/Imagination, Perseverance, Leadership & Responsibility

This class is for the serious percussionist. It will prepare you physically and mentally for the marching percussion section. After completion of this class the student should be able to perform at the advanced high school, drum corps or college level on their specific percussion instrument. This class is open for freshmen through senior grades.

2358 ARTS AND HUMANITIES Grade 9-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Global & Cultural Literacy, Curiosity, Creativity & Innovation/Imagination

Arts and Humanities is a course designed to help students develop an understanding of and appreciation for the arts, specifically in the areas of dance, drama, visual art and music. Knowledge of and appreciation for these arts will be developed through a study of history and culture of the arts. Students will be expected to be active participants in the learning process, applying these concepts through projects, presentations, and class participation activities.

Coursework in band, choir, or visual arts meets the graduation requirement for Arts & Humanities.



9503 INTRO TO THEATRE Grades 9-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Risk Taking, Collaboration & Teamwork, Creativity & Imagination

This course engages students by exploring many aspects of drama, including improv, stage movement, production values, theater history. Students will have the opportunity to examine drama in staged theater productions, as well as in movies and television.

9505 ADVANCED THEATRE PRODUCTION Grades 9-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Risk Taking, Collaboration, and Creativity & Imagination.

This is an advanced class for students who want to develop their performance and technical skills in theater. Students rehearse primarily in class for evening productions

PREREQUISITE: Intro to Theatre or instructor approval through application.

9501 COMMUNICATION (PUBLIC SPEAKING) Grades 11-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Creativity, Communication, and Critical Thinking

This class is designed to teach students how to effectively communicate in multiple settings- presentations, interviews, debates, and speeches. (Formerly Drama/Speech)

9502 MUSICAL THEATRE (Performance Theatre) Grade Level: 9 - 12 Credits: 1 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Risk Taking, Collaboration, and Creativity & Imagination.

Students develop experience and skill development in one or more aspects of theatrical production, concentrating on acting and performance skills. Focus is on extending and refining technique, expanding students' exposure to different types of theatrical craft and traditions, and increasing their participation in public productions. This course may also provide a discussion of career and post-secondary placement opportunities.

FOREIGN LANGUAGES

The primary objectives of modern foreign language courses are to prepare students to communicate effectively and appropriately in some situations in a language other than their own and to demonstrate knowledge of the culture of those who speak the target language. Colleges may require or recommend 2 years of foreign language study for admission, while others may require meeting a proficiency standard.

Consult the admission standards of your college selection. Language course should be taken in consecutive terms.

2430A/2430B SPANISH I Grades 9-12 (**yearlong course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Global & Cultural Literacy, Communication, Risk Taking

This course targets the development of the basic communication skills of speaking, listening, reading, and writing within a cultural context and in authentic situations. Students will need excellent study skills and demonstrate proficiency in their first language. The course emphasis is on oral communication. Students will be required to actively participate in speaking activities in class. Extensive homework.

2431 SPANISH II Grades 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Global & Cultural Literacy, Communication, Risk Taking

Spanish II expands the development of communication skills from Spanish I. Extensive homework.

PREREQUISITE: Spanish I with an 80% average or teacher approval.

2433 SPANISH III Grades 11-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Global & Cultural Literacy, Communication, Risk Taking

This class is intended to enhance the student's proficiency in the Spanish language by providing a variety of authentic resources and experiences. The students will be further exposed to advanced conversational and grammatical topics, as well as their use by reading and writing. This class is recommended for anyone who desires to continue the study of Spanish in college as well as those who desire entrance into competitive universities.

PREREQUISITE: Spanish II and teacher recommendation.

2432 SPANISH IV Grades 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Global & Cultural Literacy, Communication, Risk Taking

This class is a continuation of the Spanish III curriculum, with increased emphasis on speaking, listening, reading and writing. The class also includes units on history, literature and poetry in Spanish. This class is excellent preparation for the college study of the language.

PREREQUISITE: Spanish III and teacher recommendation.

2400 A.P. SPANISH LANGUAGE AND CULTURE Grade 10 - 12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Global & Cultural Literacy, Communication, Risk Taking

This course is designed for students who want to continue in the advanced study of the Spanish language. The class will focus not only on the development of the four main communication skills (speaking, listening, reading, and writing), but also will explore cultural topics that include, but are not limited to, religion, politics, holidays, family, movies, immigration, and gender roles. Students will be expected to converse almost entirely in Spanish. Prerequisite: Successful Completion of Spanish IV and teacher signature.

Students who desire to take the A.P. option will be expected to fill out an A.P. contract and take the A.P. exam in May. Drop and add guidelines apply.

PREREQUISITE: Successful completion of Spanish IV and teacher approval.

2435 SPANISH ADVANCED TOPICS: Art and Literature Grade 10 - 12 (**semester long course**) 1 credit

offered only on odd beginning school years. (ie. 17-18, 19-20, 21-22)



21st CENTURY SKILLS FOCUS AREA: Global & Cultural Literacy, Communication, Risk Taking

Spanish Advanced Topics will dig deeper into the history, culture, and politics of Spain and Latin America. Source materials will include literature, film, news and popular media, music, video, and more. Active student participation will be an important component of this class. Most material will be taught in Spanish.

PREREQUISITE: Spanish IV and/or teacher approval.

2436 SPANISH ADVANCED TOPICS: Conversation and Spanish for the Workplace Grade 10 - 12 (semester long course)

offered only on even beginning school years. (ie. 16-17, 18-19, 20-21) 1 credit

21st CENTURY SKILLS FOCUS AREA: Global & Cultural Literacy, Communication, Risk Taking

Students will explore a variety of topics with a focus on communication. They will hone their listening and comprehension skills while learning a variety of verbal and written communication strategies such as circumlocution. While the focus will be on oral communication, students will also review grammar structures from Spanish 2 and 3 including a variety of verb tenses. The final four weeks of class will be spent on a course of study designed by individual students and based on their individual interests and/or career paths.

PREREQUISITE: Spanish III

2460 SIGN LANGUAGE I (Grades 9-12) (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Global & Cultural Literacy, Productivity, Curiosity

Students will develop language proficiency as they use sign language in relevant and meaningful situations through the use of simulations, small group work, technology and authentic materials. Students will be encouraged to increase their sensitivity to the Deaf culture, its values, customs, and traditions, and increase their understanding of American Sign Language and respect the cultural and linguistic differences that they encounter in the classroom and the Deaf Community. Students will engage in conversations, provide and obtain information, express feelings, emotions, and exchange opinions. Students will be expressing and comprehending information while interacting in American Sign Language.

NOTE: Some colleges except sign language as a world language while others do not. It is your responsibility to check with the college and university you are applying to.

2461 SIGN LANGUAGE II (Grades 9-12) (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Global & Cultural Literacy, Productivity, Curiosity

A continuation of basic aspects of American Sign Language (ASL) taught in Sign Language 1--its basic vocabulary, structure, syntax, and grammar. Students will continue to focus on finger spelling, numbers, facial grammar and sentence structure. Students will also further develop the conversational/cultural behaviors necessary to hold a beginning-level conversation. More challenging examples of Deaf humor will be presented as well as additional cultural information to aid student development of awareness of and appreciation for the unique linguistic relationship between language and culture among those deaf /hard-of-hearing individuals who use ASL to communicate

PREREQUISITE : Sign Language I

NOTE: Some colleges except sign language as a world language while others do not. It is your responsibility to check with the college and university you are applying to.





BUSINESS & MARKETING & INFORMATION TECHNOLOGY

Come and explore the exciting courses this department has to offer! From producing the school’s yearbook, to operating the Rebel Zone School Store, to broadcasting weekly BCTV News, or even operating our PND School Bank, we have something interesting and fun for you to learn and enjoy while preparing to be college or career ready. We encourage you to explore as many courses as you would like, but if you think you might enjoy a career in finance, marketing, or information technology, we encourage you to make plans to join us on a path of courses. These pathways will allow you the opportunity to be college and career ready by participating and *achieving certificate status in the Kentucky Occupational Skill Standards Assessment (KOSSA) after 3 courses* as well as being recognized as a special completer in our department after 4 courses.

To be eligible to be recognized as college and career ready, the following pathways are designed for your area of interest. (Again, choosing 3 courses in one area)

ACCOUNTING	FINANCE	BUSINESS MANAGEMENT	BUSINESS MULTIMEDIA
Digital Literacy Business Principles Accounting & Finance Financial Literacy Business Ed. Co-op	Digital Literacy Business Principles Accounting & Finance Financial Literacy Business Ed. Co-op Financial Services I Financial Services II	Digital Literacy Business Principles Principles of Marketing Accounting & Finance Financial Literacy Business Law Business Ed. Co-op	Digital Literacy Multimedia Publishing Business Communications Web Page Design Advanced Multimedia Promotional Apps & Media Business Ed. Co-op Java
MARKETING	MANAGEMENT/ ENTREPRENEURSHIP	Web Development/ Administration	DIGITAL DESIGN/ GAMING
Digital Literacy Principles of Marketing Advanced Marketing Entrepreneurship	Digital Literacy Principles of Marketing Business Principles Accounting & Finance Financial Literacy Business Ed. Co-op Entrepreneurship	Computer Literacy Web Page Development Web Site Design Computer Graphics Computational Thinking Java	Digital Literacy Computational Thinking Computer Graphics Web Development

Completer status can be obtained by taking a 4th class in any area of Business and Marketing or Information Technology.

BUSINESS AND MARKETING COURSES

The Business Department provides the student with fundamental financial and business information that will help prepare them for post-secondary degrees as well as entry-level jobs immediately following high school. Student success in the management of personal financial resources is also a goal of the staff in this department.

5641 BUSINESS PRINCIPLES & APPLICATIONS Grades 9-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Entrepreneurial Literacy, Financial Literacy, Critical Thinking

Can you balance a checkbook, manage a credit card, select insurance? Maybe this course would be of interest to you. Topics covered include types of business organizations, career awareness, and personal business activities including banking, investing, and budgeting.

2706 DIGITAL LITERACY (COMPUTER APPLICATIONS) Grades 9-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Communication, Applying Technology Effectively

Keyboarding efficiency and business principles will be taught through the applied usage of Microsoft Office and Google Apps.

5610 ACCOUNTING & FINANCE FOUNDATIONS (ACCOUNTING I) Grades 10-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Financial Literacy, Entrepreneurial Literacy, Time Management & Organization

Working with numbers is the name of the game in this course. Organizing figures and making reports on a business’s finances is what Accounting is all about.



5614 BANKING AND FINANCIAL SERVICES I Grades 12 (year-long course with 5615 BANKING AND FINANCIAL SERVICES II)
21st CENTURY SKILLS FOCUS AREA: Problem Solving, Leadership & Responsibility, Ethics 1 credit
Students in this course operate the PND Bank. The banking students develop and manage the financial center through a sponsoring bank where employees work as consultants with the students. Students must also enroll in Banking/Financial Services II.
PREREQUISITES: Student must have completed Accounting I with at least a 'B' average.

5615 BANKING AND FINANCIAL SERVICES II Grades 12 (year-long course with 5614 BANKING AND FINANCIAL SERVICES I)
21st CENTURY SKILLS FOCUS AREA: Problem Solving, Leadership & Responsibility, Ethics 1 credit
This course is a continuation of Banking and Financial Services I and is highly recommended for students pursuing a financial or banking career. Students will continue to learn and practice financial activities associated with the operation of a bank while improving communication and customer service skills.
PREREQUISITE: Banking and Financial Services I

5609 FINANCIAL LITERACY (PERSONAL FINANCE AND CREDIT) Grades 10-12 (semester long course) 1 credit
21st CENTURY SKILLS FOCUS AREA: Financial Literacy, Critical Thinking, Perseverance
Financial literacy is a hot topic in today's society. This course focuses on employment earnings and the managing, saving, investing, and borrowing of money based on those earnings.

5616 BUSINESS LAW Grades 10-12 (semester long course) 1 credit
21st CENTURY SKILLS FOCUS AREA: Ethics, Informational Literacy, Perseverance
Knowing your legal rights and responsibilities can make your life easier. Take this course and learn about everyday roles of citizens and workers and gain a basic understanding of the American legal system as it relates to us and our day-to-day activities.

1201 PRINCIPLES OF MARKETING Grades 9-12 (semester long course) 1 credit
21st CENTURY SKILLS FOCUS AREA: Financial Literacy, Entrepreneurial Literacy, Collaboration & Teamwork
Enjoy studying new products? Survey potential customers? Advertising? Sports advertising? Then marketing is the class for you! This class will study all aspects of the marketing curriculum. From designing businesses, creating logos, and even some commercial video creation, this class will teach you the basics of marketing.

1202 ADVANCED MARKETING (SCHOOL STORE) Grades 11-12 (semester long course) 1 credit
21st CENTURY SKILLS FOCUS AREA: Financial Literacy, Entrepreneurial Literacy, Collaboration & Teamwork
Ever thought about owning your own business? Becoming a business manager? Working for an advertising agency? This class extends beyond the basic principles of marketing and puts those principles to use. This class will operate our School-Based Enterprise (SBE) "The Rebel Zone". The SBE will offer school supplies, school apparel, and snacks.
PREREQUISITE: Principles of Marketing

INFORMATION TECHNOLOGY

The Department of Information Technology provides a multi-level framework of I.T. application courses support and management of computer hardware, software, multimedia and system integration services in the Information Technology career area.



9938 WEB DEVELOPMENT (IT LAB I) Grades 9-12 (semester long course) 1 credit
21st CENTURY SKILLS FOCUS AREA: Technical Literacy, Curiosity, Perseverance
Students will learn to develop and launch their own websites using HTML and CSS, as well as using Adobe Photoshop to create their own custom graphics. This course has a strong focus in coding, and is valuable for students interested in pursuing careers in Website development, graphic design, and computer or Web programming.
NOTE: Due to lab equipment and software licensing, class size is limited to 28 students. Ninth graders should have strong interest in Computer Technology.



9937 WEB DESIGN & DEVELOPMENT (IT LAB II) Grades 9-12 (semester long course) 1 credit
21st CENTURY SKILLS FOCUS AREA: Technical Literacy, Curiosity, Perseverance
This course builds onto the concepts learned in Web Development and introduces the concepts of database driven Website Development and Design. Students will continue their work in Web Development, and use PHP and MySQL to create advanced Websites such as online stores, social networks, and online catalogs. This course has a strong focus in programming concepts, and is valuable for students interested in pursuing careers in Website development, graphic design, and computer or Web programming.
NOTE: Due to lab equipment and software licensing, class size is limited to 28 students. Ninth graders should have strong interest in Computer Technology.
PREREQUISITE: This course builds on the HTML and CSS concepts learned in Web Development, and requires that students have completed Web Development (IT LAB I) - NO EXCEPTIONS.



2702 COMPUTATIONAL THINKING (Intro To Computer Programming) Grades 9-12 (semester long course) 1 credit
21st CENTURY SKILLS FOCUS AREA: Technical Literacy, Problem Solving, Perseverance
Promotes understanding of computer programming and logic by teaching students to "think like a computer". Languages covered include JAVA and PHP. Covers skills needed to develop and design language-independent solutions to solve computer related problems. Covers programming basics including use of variables, control and data structures, and principles of command-line and object-oriented languages.
NOTE: This course is recommended only for students with strong math skills and an interest in computer science and programming.



56301 JAVA Grade (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Technical Literacy, Problem Solving, Perseverance

Introduces students to fundamental programming concepts using the Java programming language. Topics include data types, control structures, simple data structures, error-handling, object oriented programming, graphical user interfaces, and modular programming.

PREREQUISITES: Computational Thinking REQUIRED.



5631 AP COMPUTER SCIENCE Grade 10-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Technical Literacy, Problem Solving, Perseverance

This course is designed for students who are serious about programming. JAVA requires a good mathematical background and strong problem solving skills. The course is designed to prepare a student for the Advanced Placement® Computer Science exam, level A. Topics include: simple, user defined and structured data types, algorithm development, decisions and loops, arrays, recursion, searches and sorts, data abstraction, and classes.

PREREQUISITES: Java REQUIRED.

NOTE: This course is recommended only for students with strong math skills and an interest in computer science and programming.



2718 INTRO TO GRAPHIC COMMUNICATIONS (COMPUTER GRAPHICS) Grades 10-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Creativity & Innovation/Imagination, Curiosity/Imagination, Media Literacy

Be the star in your own creations! Design your own magazine cover featuring YOU on the cover, and star in your own movie poster. You will use digital cameras, scanners, color laser printers, Microsoft and Adobe software to manipulate photos, produce high-quality vector graphics, and put it all together into posters, menus, business cards and other 'real-world' documents. A good course for the Art, Business, or I.T. student. This site is recommended for students who are also enrolled in Website Development.

NOTE: Due to lab equipment, class size is limited to 28 students.

PREREQUISITES: This course is an excellent course for art students interested in pursuing graphic design



2000 Advanced Multimedia/BCTV (MULTIMEDIA BROADCASTING I) Grades 10-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Creativity, Communication, Teamwork

This hands-on course applies digital camcorders, cameras, video editing, and communication and presentation skills to produce our BCHS newscast. During the semester you will learn the basic skills of camera operation, news anchoring, audio/sound mixing, and news direction. Come be a part of the new 'BCTV' team!

PREREQUISITE: Student must take Introduction to Multimedia (Video Production)



2007 INTRODUCTION TO MULTIMEDIA (VIDEO PRODUCTION) Grades 9-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Creativity & Innovation/Imagination, Collaboration & Teamwork, Productivity

Find and use your inner creativity!! Write and produce your own video productions! In this class you will learn how to effectively use video cameras, still cameras, tripods, professional editing software and copyright law to plan and produce several video projects. You will also learn and practice effective workplace skills such as teamwork and soft skills.



2352 BUSINESS COMMUNICATIONS(YEARBOOK DESIGN I) 1 credit

2353 PROMOTIONAL APPS (YEARBOOK DESIGN II) 1 credit

21st CENTURY SKILLS FOCUS AREA: Collaboration & Teamwork, Communication, Technical Literacy,

Be a part of something special and help TELL EVERYONE'S story!! Join the B.C.H.S. yearbook team! This VERY real world class allows you to be a part of a production team, use digital cameras and online software, write, manage, design, and author! The homework for this class will consist of some out-of-class work.

NOTE: This class requires a completed application form and teacher approval. Some positions can be semester long, but most are year-long. Class size is limited. See teacher.

2005 WEB JOURNALISM Grade 10-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Critical Thinking, Informational Literacy

This course provides the opportunity for students to develop writing skills and career competencies in the field of journalism. Students will learn real world skills such as interviewing, meeting deadlines, and collaborating with others. This class focuses on our mission statement, "To radiate a positive digital first and lasting impression of our school and district" and we strive to produce quality, professional and relevant news articles for our school's websites. This course requires an application and approval for entry will be granted by teachers in the English Department.

2703 STUDENT HELP DESK Grade 10-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Problem Solving, Technical Literacy

This is a hands-on study of technology integration in a school setting. Students will be required to assess problems throughout the day and define the best approach to assessing or solving the problem. In addition to working with students and teachers, help desk students will be required to complete and maintain several running projects that address problems or solutions in educational technology integration. The course requires experience and knowledge of Apple OS, Chrome OS, and iOS.

PREREQUISITE: Students will need to apply for this course.





ENTREPRENEURIAL

1120 Entrepreneurship – THE BIG IDEA Grades 9-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Initiative, Creativity and Innovation/Imagination, Entrepreneurialism

The Big Idea begins with a brief introduction of the world's growing entrepreneurial society and introduces students to the theory of entrepreneurship. Students spend the majority of the course actively learning about the entire idea generation process with a focus on opportunity recognition and business plan creation - in an exciting, hands-on approach. Complete with trips to local innovative companies, intimate roundtables with legendary entrepreneurs, and access to local business mentors, students enjoy a class experience unlike any other. This 18 week course culminates with an exciting Investor Panel, think "Shark Tank" event, where students pitch their business plans for funding.

PREREQUISITE: Teacher signature/contract required-student must submit the completed application/contract and receive approval from the instructor.

PATHWAY TO CAREERS

5503 CAREER WORK EXPERIENCE Grade 12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Time Management & Organization, Dependability, Curiosity

*Students may receive additional credits by enrolling and participating in Cooperative Work Release.

This course offers an extensive skills-based program designed to assist students in career exploration and preparation for successful transition into the world of work. Content will help foster student self-discovery, career research and planning, on-the-job-effectiveness, and social/civic responsibilities. Course work is developed to tie course content with the current and future work place.

5508/5509 COOPERATIVE WORK RELEASE Grade 12 (semester long course-two semesters possible) SENIORS ONLY 1 credit

21st CENTURY SKILLS FOCUS AREA: Time Management & Organization, Dependability, Curiosity

This program is designed for the student who works in a paid or non-paid position in a business/industry. In addition to the employment component, Cooperative Work Release students must enroll in our Career Work Experience class that is only offered during the fall semester. After enrolling in the Career Work Experience class, the student is eligible to earn up to two work release credits each semester. The course emphasizes the application of interpersonal human relations skills, problem solving, and transitional skills that will enhance his/her development as an employee.

PREREQUISITE: Career Work Experience (only offered first term)

ACADEMIC MENTORING

2335 MENTORING Grades 11-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Time Management & Organization, Initiative, Curiosity

This course allows students to pursue independent study in an area of specified interest by working with local professionals. Students must submit study/project proposals to be reviewed by a selection committee. This program requires a culminating project and presentation. Students are responsible for their transportation. Class may be repeated for credit in another area of interest.

PREREQUISITES: Student must submit the completed application and receive approval from the mentoring instructor.

2336 MENTORING II Grade 12 only (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Time Management & Organization, Initiative, Curiosity

This course allows students to pursue independent study in an area of specified interest by working with local professionals. Students must submit study/project proposals to be reviewed by instructor. This program requires a culminating project and presentation. Students are responsible for their transportation.

PREREQUISITE: Students must have completed Mentoring I with an 80% or higher and receive approval from instructor.

DRIVER AND TRAFFIC SAFETY EDUCATION

2840 DRIVER EDUCATION Grades 10-12 (semester long course) (\$10 course fee) ½ credit

21st CENTURY SKILLS FOCUS AREA: Problem Solving, Informational Literacy, Critical Thinking

This course provides classroom and laboratory experiences designed to enable motor vehicle operators to operate their vehicles safely, efficiently, and responsibly. The class is organized to provide instruction on the rules and regulations that govern the operation of a vehicle safely. Students who complete this requirement are then given driver training and are required to pass minimum performance levels as outlined in the Driver and Traffic Safety Education Guide.

The successful completion of this training program should enable students to obtain a vehicle operator's license. In addition, most insurance companies give a discount on insurance rates to students who successfully complete the program. It will satisfy the legal requirement that everyone complete a driver's course within one year of receiving a driver's license.

PREREQUISITE: Students must be 16 years of age and possess a valid Kentucky operator's license or permit by the first day of class to participate in this class. The class is limited to an enrollment of 16 per class.



OFFICE AIDE AND PEER TUTORING

2947 OFFICE AIDE Grade 12 (No credit) **(semester long)** 0 credit

21st CENTURY SKILLS FOCUS AREA: Dependability, Ethics, Productivity

Office Aides are only available for the main office, the library and the guidance office. There is limited availability. In order to be an Office Aide, students must complete the "Office Aide Application" and meet the requirements BEFORE registration. Office Aide Application can be obtained in the Guidance Office.

2306 PEER TUTORING Grades 11-12 **(semester long course)** **May be repeated for additional credit.** 1 credit

21st CENTURY SKILLS FOCUS AREA: Leadership and Responsibility, Collaboration and Teamwork, Organization

Peer tutoring is a credited elective class for students to gain experience working with same-aged students with severe disabilities in an educational setting. While in the course peer tutoring students will learn about different cognitive and physical disabilities, different learning styles, instructional and motivational techniques, and careers in the special education field. The major role of the peer tutor will be to work side-by-side with students with disabilities and help them participate in the everyday life activities, and events of a typical high school student. Peer tutors are friends, role models and guides for the student they are working alongside. **PREREQUISITE:** Completed application form BEFORE registration, instructor's approval, and good school attendance.





FAMILY & CONSUMER SCIENCES DEPARTMENT

Students may choose to be a Family and Consumer Sciences explorer and take a variety of Family and Consumer Sciences classes, or they may choose to focus in a specific area or areas and become eligible to take the KOSSA (KY Occupational Skills Standards Assessment) test. Listed below are the KOSSA areas and the courses required to be fulfilled before becoming eligible to be tested. Students receive a certificate and recognition for each exam by meeting minimum scores for the exam.

Consumer & Family Management	Culinary Arts	Early Childhood Education
*FACS Essentials *Money Skills for Math *Relationships *Food & Nutrition Parenting	*FACS Essentials Food & Nutrition *Culinary Arts Money Skills for Math	FACS Essentials *Early Lifespan Development Relationships *Parenting *Child Services I Principles of Teaching Money Skills for Math
Fashion & Interior Design	Fundamentals of Teaching	Hospitality Services
*FACS Essentials *Fashion and Interior Design I *Fashion and Interior Design II Money Skills for Math Advanced Fashion Design	FACS Essentials *Early Lifespan Development *Principles of Teaching Money Skills for Math Relationships	FACS Essentials *Principles of Hospitality Food & Nutrition Money Skills for Math

*HIGHLY RECOMMENDED

The Family and Consumer Sciences (FCS) Department at Boyle County High School is designed to be a four year program that provides career exploration, orientation and preparation for students who have an interest in any family and consumer sciences or related occupations area. Our goal is to assist students in developing realistic and challenging goals for career development and personal success. Class work contains academic applications and problem-solving activities. All students are encouraged to plan and pursue post-secondary education or job training in the pursuit of a wisely planned occupational goal.

FCS students should expect their class work to include laboratory study, development of job skills, independent projects and cooperative learning. All students are encouraged to develop leadership skills through active participation in the Boyle County Chapter of Family, Career and Community Leaders of America, a national student-led organization that helps young men and women become leaders and address important personal, family, work and societal issues through Family and Consumer Sciences education. FCCLA has more than 220,000 members and nearly 7,000 chapters from 50 state associations and the District of Columbia, Puerto Rico and the Virgin Islands. The organization has involved more than ten million youth since its founding in 1945.

FCCLA: The Ultimate Leadership Experience is unique among youth organizations because its programs are planned and run by members. It is the only career and technical in-school student organization with the family as its central focus. Participation in national programs and chapter activities helps members become strong leaders in their families, careers and communities. The Boyle County Chapter is actively involved on the chapter, regional, state and national level! Join FCCLA to help your leadership skills for today and the future!

Students are encouraged to join FCCLA and participate in any of the following activities:

Chapter, Regional, State and National Meetings	Step One
Competitive Events (STAR Events, Contests)	National Programs
Power of One	BCHS Alumni Tailgate Event
Run for regional, state and/or national offices	Degrees



5910 FACS ESSENTIALS (FCS LIFE SKILLS) Grades 9-10 **(semester long course)** 1 credit

21st CENTURY SKILLS FOCUS AREA: **Problem Solving, Collaboration & Teamwork, Time Management & Organization**

This comprehensive course provides an opportunity for acquiring basic life skills and allows students to select specific areas for concentrated study. Emphasis is on work and family, adolescent development, selection and care of clothing, consumer spending, housing choices, challenges of child rearing, and guidance in establishing relationships. Leadership development will be provided through the Family, Career and Community Leader of America.

5908 FASHION AND INTERIOR DESIGN I Grades 9-12 **(semester long course)** 1 credit

21st CENTURY SKILLS FOCUS AREA: **Creativity & Innovation/Imagination, Problem Solving, Dependability**

This course provides opportunities for students to develop career competencies in the fashion and/or interiors industry by applying information related to social, economic, and media influences. Students apply knowledge of design principles and processes through skill performance activities. Work experience will be explored and leadership development will be provided through Family, Career and Community Leaders of America.



5909 FASHION AND INTERIOR DESIGN II Grades 10-12 **(semester long course)** 1 credit

21st CENTURY SKILLS FOCUS AREA: **Collaboration & Teamwork, Productivity, Risk-taking**

This course provides opportunities for students to develop career competencies in the fashion and/or interiors industry. Practical problems include advanced textile construction techniques, and/or the creation of floor plans using technological resources. Entrepreneurial opportunities will be explored. Application of skills will occur in a variety of work sites. Leadership development will be provided through the Family, Career, and Community Leaders of America.

PREREQUISITE: Fashion and Interior Design I



5912 FASHION AND INTERIOR DESIGN III Grades 10-12 **(semester long course)** 1 credit

21st CENTURY SKILLS FOCUS AREA: **Collaboration & Teamwork, Productivity, Risk-taking**

This course provides opportunities for students to apply career competencies and equip students with entrepreneurial skills for the fashion and interior design industry. Students may develop a business plan and operate a student-run enterprise. An emphasis on client-based projects through advanced textile construction, creation of floor plans, and other related fashion and interior design projects are incorporated. Individual digital portfolios will be finalized to document growth and enhancement in the career pathway. Leadership development will be provided through the FCCLA student organization.

PREREQUISITE: Fashion and Interior Design II

5911 ADVANCED FASHION DESIGN (200801) Grades 11-12 **(semester long course)** 1 credit

21st CENTURY SKILLS FOCUS AREA: **Entrepreneurialism, Leadership & Responsibility, Technical Literacy**

This course provides opportunities for students to develop career competencies in the fashion industry. Practical problems include advanced textile construction techniques, and the understanding of textile fundamentals. Entrepreneurial opportunities will be explored. Application of skills will occur in a variety of project based learning through Rebel Textiles. Leadership development will be provided through the Family, Career and Community Leaders of America.

PREREQUISITE: Fashion and Interior Design II

5934 PARENTING Grades 9-12 **(semester long course)** 1 credit

21st CENTURY SKILLS FOCUS AREA: **Ethics, Flexibility, Dependability**

This course is designed to aid students in developing parenting and care giving skills that can be applied in a variety of situations. Major topics include becoming an informed parent, caring for the newborn, being an effective parent/caregiver, caring for the sick and elderly and exploring career opportunities in care giving. Leadership development will be provided through the Family, Career and Community Leaders of America.

5932 EARLY LIFESPAN DEVELOPMENT (CHILD & HUMAN DEVELOPMENT) Grades 9-12 **(semester long course)** 1 credit

21st CENTURY SKILLS FOCUS AREA: **Creativity and Innovation/Imagination, Leadership and Responsibility, Productivity**

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 human growth and development, meeting the needs of exceptional children, promoting optimum growth and development in the infancy, toddler, and preschool stages. Careers in child/human development are explored. Leadership development will be provided through the Family, Career and Community Leaders of America.

5937 CHILD SERVICES I Grades 10-12 **(semester long course/2 hour class)** 1 credit

21st CENTURY SKILLS FOCUS AREA: **Ethics, Initiative, Leadership and Responsibility**

Child Development Services provides training for entry-level positions as well as to train for supervisory level positions in day care centers, nurseries, kindergartens, and private homes. Students study careers in child development, child development and 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 experience in a variety of childcare establishments or preschool centers. Students enrolled in this course will spend multiple days a week in a childcare or preschool classroom.

PREREQUISITE: Early Lifespan Development

5936 PRINCIPLES OF TEACHING (ED 102: Intro to Education Dual Credit or EDU 250: Intro to Teacher Education) 1 credit

Grades 11-12 **(semester long course)** offered only on even beginning school years. (ie. 16-17, 18-19, 20-21)

21st CENTURY SKILLS FOCUS AREA: **Critical Thinking, Initiative, Ethics**

This course provides opportunities for students with an interest in teaching to develop skills, strategies, and techniques used for instruction at various grade levels. Instruction addresses the principles and procedures for promoting the physical, emotional, social, and intellectual development of children, adolescents and developmentally appropriate practices in educational settings. Students will gain work experience in classrooms with certified teachers as part of their course work. Students will receive multiple observation hours a week from elementary or middle school classrooms in the district. Other components include the development of a four-year post-secondary plan, salaries, and benefits of a teacher, job security, and future projections of the job market. Leadership experiences will be provided through student organizations such as Family, Career and Community Leaders of America. Dual credit can be received through Campbellsville University (juniors and seniors) or Western Kentucky University (seniors only).



5907 RELATIONSHIPS Grades 9-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: **Communication, Ethics, Collaboration and Teamwork**

This course assists students in developing a self-understanding as well as learning to understand others better. Students will improve interpersonal skills both within and outside the family, be more considerate of other person's needs and property, and maintain mental and emotional wellness. Family Life education comprises a portion of this course, including dating and married relationships. Preparations for and the achievement of a successful marriage are emphasized. Leadership development will be provided through the Family, Career, and Community Leaders of America.

5933 MONEY SKILLS FOR MATH Grades 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: **Financial Literacy, Critical Thinking, Entrepreneurial Literacy**

This course is designed to prepare students to understand and use sound financial management skills and practices contributing to financial stability, improving the quality of life for individuals and families. Decision-making, problem solving, goal setting and using technology are integrated throughout the content. Leadership development will be provided through the Family, Career, and Community Leaders of America.

5931 FOODS AND NUTRITION Grades 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: **Collaboration and Teamwork, Time Management and Organization, Productivity**

This course is designed to assist students in making critical decisions about food, which contributes to health and well-being. Laboratory instruction is included as an application process. Practical problems addressed relate to attitudes toward food, nutrition facts, special health concerns and diets, management of food resources, preparation skills, food safety, sanitation and careers in nutrition and food service. Leadership development will be provided through the Family, Career, and Community Leaders of America.

5929 CULINARY ARTS Grades 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: **Collaboration and Teamwork, Entrepreneurialism, Productivity**

This course is designed to assist students in principles related to food preparation. Specific content addressed will include planning, serving, food presentation, special diets, and nutrition for the lifespan, serving, and food planning for entertainment services. An emphasis on careers related to food service and nutrition (i.e. catering, dietician, and other culinary careers). Lab instruction emphasizes the application process. Students in this course will operate Boyled to Perfection Catering. Leadership development will be provided through the Family, Career and Community Leaders of America (FCCLA) student organization. There will be a **\$25 class fee** that will be collected the first week of class. This fee will offset the cost of lab ingredients.

PREREQUISITE: Foods and Nutrition

5935 PRINCIPALS OF HOSPITALITY Grades 10-12 (**semester long course**) offered only on even beginning school years. (ie. 17-18, 19-20, 21-22) 1 credit

21st CENTURY SKILLS FOCUS AREA: **Collaboration and Teamwork, Entrepreneurialism, Productivity**

This course is designed for students interested in careers in the hospitality industry. The instruction includes career awareness in the areas of recreation, travel/tourism, hotel/motel, and restaurant. This course is based on the family and consumer sciences core that includes communication skills, economics, food and beverage operations, promotion, selling, and product/service management. Leadership development will be provided through FCCLA activities and competitive events. Students in this course will assist in Boyled to Perfection Catering operations.





ALLIED HEALTH DEPARTMENT



2852 HEALTH SCIENCE INTRODUCTIONS Grades 9 – 12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Ethics

Health Science Introductions is an orientation to the Allied Health career pathway. This course is designed to develop and enhance an understanding of the roles and responsibilities of Dentistry and Allied Health careers. Communications, study and leadership skills will be emphasized as the student learns about the health care industry, health care economics, and career opportunities available. Medical terminology will be integrated throughout the course.

2892 HEALTH CARE FUNDAMENTALS WITH NURSE AID Grades 11-12 (**year-long course**) 3 hr BCTC credit. 1 credit BCHS

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Ethics

Students will review important information regarding infection control, standard precautions, body mechanics, safety, confidentiality and other pertinent topics that might be necessary in the clinical setting. Nearing the end of the semester students will be placed in a long-term care setting for 16 hours of clinical experience. Students will work with the instructor to attain valuable hands-on learning. This course is a dual credit course. Upon successful completion of the course, clinical experience and skills/written assessments students will be registered in Frankfort with the Kentucky Board of Nursing as a nursing assistant. Book Fees and Background Check are applicable** Book must be purchased by student.

Prerequisite: Health Science Introductions and must make contact with teacher in spring semester.

Emergency Procedures/CPR for Healthcare Providers

Course Description: 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.

2891 MEDICAL TERMINOLOGY Grades 11 – 12 (**semester long course**) 3 hr BCTC credit. 1 credit BCHS

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Ethics

This course consists of the study of medical terms and the origin of these terms. Emphasis is given to the correct interpretation of medical terms and the application of these terms in the medical profession.

This course is a dual credit course. Fees apply (book purchase)**

2853 BODY STRUCTURES & FUNCTIONS (Human Anatomy & Physiology) Grades 11 – 12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Ethics

This course provides knowledge of the structure and function of the human body with an emphasis on normalcy. Includes the interaction and interdependence of all body systems in maintaining homeostasis and promotes an scientific concepts which are necessary for problem solving in healthcare. This course will broaden one's knowledge of the human body in a challenging way.

Fees apply to these courses: **Healthcare Fundamentals with Nurse Aid and Medical Terminology has a \$50 dual credit administration fee plus book purchase, Nurse Aid exam fee, \$25 TB skin test fee, \$20 Liability Insurance fee, and criminal background check.





Whether a student is curious to understand more about engineering, has decided to pursue it as a career, or simply want to think critically, work collaboratively and explore how math and science work in his or her everyday life, PLTW's Pathway to Engineering Program provides a track for success. Students engage in open-ended problem solving, learn and apply the engineering design process, and develop vital teamwork, communication and critical thinking skills. Throughout the courses, students use the same industry-leading technology and software as the world's top companies. The exciting and challenging fields of engineering come alive in this program, which is designed to prepare students for careers or post-secondary study in STEM fields.

We encourage you to explore as many courses as you would like, but if you think you might enjoy a career in engineering, we encourage you to make plans to join us on a path of courses. These pathways will allow you the opportunity to be college and career ready by participating and *achieving certificate status in the Kentucky Occupational Skill Standards Assessment (KOSSA) after 3 courses* as well as being recognized as a special completer in our department after 4 courses.

To be eligible to be recognized as college and career ready, the following pathway is designed for your area of interest. (Again, choosing 3 courses)

PLTW Pathway to Engineering

Required PLTW Core Course (at least two)	Elective Courses
219901-(IED) Introduction to Engineering Design 219902-(POE) Principles of Engineering	(CSSE) Computer Science & Software Engineering (CIM) Computer Integrated Manufacturing



1231 (IED) INTRODUCTION TO ENGINEERING DESIGN Grade 9 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Teamwork, Critical Thinking, Communication

Students dig deep into engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software and document their work in an engineering notebook.



1234 (CSSE) COMPUTER SCIENCE AND SOFTWARE ENGINEERING Grade 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Collaboration/Team Work, Technical Literacy

Students will create apps for mobile devices, automate tasks in a variety of languages, and find patterns in data. They will collaborate to create and present solutions to real-world problems, and weigh the ethical and societal issues of computing and connectivity



1235 (POE) PRINCIPLES OF ENGINEERING Grade 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Collaboration/Team Work, Technical Literacy

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.



1236 (CIM) Computer Integrated Manufacturing Grade 10-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Collaboration/Team Work, Technical Literacy

Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge system.



2532 PHYSICS Grades 11-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Collaboration & Teamwork, Time Management & Organization

Physics is an elective subject which studies the various aspects of science (mechanics, heat, momentum, electricity). The course is math-intensive consisting of lecture, video, lab experiences, and book work. Students should expect daily in-class work with a moderate amount of outside class assignments. Physics is recommended for students planning careers in engineering and math-related fields.

PREREQUISITES: Algebra I & II **MUST** be completed prior to enrollment.

2519 AP Physics Grades 11-12 (**year-long course/weighted**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Collaboration & Teamwork, Time Management & Organization A.P.

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.

PREREQUISITES: Algebra I & II **MUST** be completed prior to enrollment, with a 'B' average or better.





MATH DEPARTMENT

The Math Department provides a program to meet the needs of all students with the essential math tools throughout life—not only numbers and concepts, but practical skills and practical skills application. The program provides the student an opportunity to improve basic skills in arithmetic, attain understanding and mastery problem-solving, gain insight into concepts behind these techniques, and prepare for mastery of problem-solving techniques, gain insight into concepts behind these techniques, and prepare for advanced course in mathematics and science.

Students: must have a mathematics class all 4 years of high school.

All students must complete Algebra I, Geometry and Algebra II (regular or Honors).

2708A/2708B ALGEBRA I A & B Grades 9-10 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Productivity

Algebra I is an introduction into the field of higher mathematics. The student develops skills in solving more problems through the use of logical reasoning. Topics taught in this class will be radicals, rational expressions, graphing, linear inequalities, absolute value inequalities, quadratic formula, statistics, probability, data analysis and right triangle relationships. Each student is required to have a calculator. Extensive amounts of homework will be required. This class should be completed by the end of the freshman year.

2712A/2712B GEOMETRY A & B Grades 9-10 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Problem Solving, Perseverance, Critical Thinking

The focus will be a theoretical approach to geometric principals and relationships, but will also involve realistic applications. Topics include: inductive and deductive reasoning, points, lines, planes, angles, triangles, polygons, congruency and similarity, circles, and areas. Each student is required to have a calculator. Extensive amounts of homework will be required. This class should be completed by the end of the sophomore year.

PREREQUISITE: Algebra I

2711A/2711B ALGEBRA II A & B Grades 9-12 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Collaboration & Teamwork

This course is an in-depth study of algebraic functions. Each student is required to have a graphing calculator. Extensive amounts of homework will be required.

PREREQUISITE: Algebra I

2720A/2720B HONORS ALGEBRA II A & B Grades 9-12 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Collaboration & Teamwork

This course is an in-depth study of algebraic functions at an accelerated pace. In addition to material studied in the regular Algebra II class, students will explore exponential and logarithmic functions as well as analyze conic sections. The class is offered as a course for students preparing for college and having a very high interest and ability in math and science. Each student is required to have a graphing calculator. Extensive amounts of homework will be required.

PREREQUISITES: A in Algebra I or Geometry or A or B in Honors Geometry

2728 ALGEBRA 2.5 Grades 11-12 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Collaboration & Teamwork

This course is suggested for students who need stronger Algebra skills between Algebra II and Pre-Calculus. It is strongly recommended for those who did not take Honors Algebra II or who need extra practice before Pre-Cal. It can also be taken as a senior level math class, if students do not need to take Pre-Calculus for college.

PREREQUISITES: Geometry and Algebra II

2713A/2713B PRE-CALCULUS A & B Grades 10-12 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Productivity

This course is intended for students who plan to take a calculus class in high school or college. It includes topics traditionally taught in trigonometry and analytic geometry and integrates additional work with functions. Each student is required to have a graphing calculator.

PREREQUISITES: A or B in Honors Geometry and Honors Algebra II or A in Geometry and Algebra II

2715 PRE-CALCULUS with COLLEGE ALGEBRA Grade 10-12 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Productivity

This course is intended for students who plan to take a calculus class in high school or college. Graphing and problem solving are integrated throughout the study of polynomial, absolute value, rational, radical, exponential, trigonometric, and logarithmic functions. Each student is required to have a graphing calculator. This course covers the curriculum necessary for students to be prepared for Calculus.

CAMBELLSVILLE UNIVERSITY DUAL CREDIT for MTH 111 COLLEGE ALGEBRA OFFERED THROUGH THIS COURSE.

For those seeking dual credit opportunity, students must meet minimum GPA and ACT requirements (Page 8).

PREREQUISITES: A or B in Honors Geometry and Honors Algebra II or A in Geometry and Algebra II

2733 COLLEGE READY MATH Grade 12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Productivity

This course is designed for college bound seniors who have not met the state college benchmarks in math, and who have passed Algebra I, Geometry and Algebra II. Students will be given the opportunity to improve their skills in math to possibly transition from high school to College Algebra without need for remedial courses. The course will review skills needed to be more successful on college placement tests. Each student is required to have a calculator.

PREREQUISITES: Qualifying ACT score in Math





2725 AP CALCULUS AB (MTH 123 Elementary Calculus Dual Credit) Grades 10-12 (year-long course/weighted) 1 credit
21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Perseverance



This class will follow the College Board curriculum found at

http://www.collegeboard.com/student/testing/ap/calculus_ab/topic.html?calcab Derivatives and integration of all function types and their applications. At the completion of this course, students will be prepared for successful completion of the AP exam, which can earn them college credit for MTH 113 Calculus I. Each student is required to have a graphing calculator. Extensive amounts of homework will be required. AB is representative of college Calculus I and part of Calculus II.

CAMBELLSVILLE UNIVERSITY DUAL CREDIT OFFERED THROUGH THIS COURSE.

For those seeking dual credit opportunity, students must meet minimum GPA and ACT requirements.

PREREQUISITES: A or B in Pre-Calculus and recommendation of Pre-Calculus teacher



1020 AP CALCULUS BC Grades 11-12 (year-long course/weighted) 1 credit
21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Perseverance

This class follows the College Board curriculum found at

http://www.collegeboard.com/student/testing/ap/calculus_bc/topic.html?calcbc . It builds on topics from AP Calculus AB and also includes more sophisticated integration techniques, infinite series, and parametric and polar equations. Use of a graphing calculator (TI-83 or 84 is preferred) is required. There will be extensive out-of-class homework.

PREREQUISITES: Successful completion of AP Calculus AB and teacher approval.



1219 STATISTICS Grades 11-12 (semester-long) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Perseverance

Develop analytical and critical thinking skills as you learn to describe data patterns and departures from patterns, plan and conduct studies, use probability and simulation to explore random phenomena, estimate population parameters, test hypotheses, and make statistical inferences.

PREREQUISITES: Successful completion Alg 2.



1220 AP STATISTICS Grades 11-12 (semester-long/weighted) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Perseverance

Develop analytical and critical thinking skills as you learn to describe data patterns and departures from patterns, plan and conduct studies, use probability and simulation to explore random phenomena, estimate population parameters, test hypotheses, and make statistical inferences.

PREREQUISITES: Successful completion Alg 2 and teacher approval.



2735 MATH TRANSITIONS I Grade 12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Productivity

This course is required for seniors who have not met the state college benchmarks in math, and who have passed Algebra I, Geometry and Algebra II. Students will be given the opportunity to improve their skills in math to possibly transition from high school to College Algebra without need for remedial courses. The course covers real number systems, ratios and proportions, order of operations, measurement, exponents and radicals, probability and statistics, graphs, Geometry, and basic algebraic concepts such as solving linear equations and understanding variables and algebraic expressions. Each student is required to have a calculator.

PREREQUISITES: Qualifying ACT score in Math

2736 MATH TRANSITIONS II Grade 12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Problem Solving, Productivity

Students who do not meet the state ACT benchmark in Math after taking Math Transitions I will be required to take Math Transitions II. Again, students will be given the opportunity to improve their skills in math to possibly transition from high school to College Algebra without need for remedial courses. It covers real number systems, ratios and proportions, order of operations, measurement, exponents and radicals, probability and statistics, graphs, Geometry, and basic algebraic concepts such as solving linear equations and understanding variables and algebraic expressions. Each student is required to have a calculator.

PREREQUISITES: Qualifying ACT score in Math.

4TH MATH CREDIT ALTERNATIVES

Students will have a minimum requirement of 4 courses in Math which includes at least one math course per year for four years. Graduation requirements state that students must successfully complete Algebra I, Algebra II, Geometry. One additional Math course must also be taken their Senior year.

5610 Accounting I	1127 Special Prob. in Tech.	1225 Applied Science Tech.
5609 Personal Finance	1123 Principles of Engineering	1226 Design for Engineering Acd. I
2715 IT Lab II	1124 Adv. Engineering Tech	1227 Design for Engineering Acd. II
1129 AP Chemistry	1230 Robotics Eng. Acad.	1228 Design for Engineering Acd. III
2532 Physics	1125 Eng. Design & Dev.	1229 Design for Engineering Acd. IV
5631 AP Computer Science	1126 Eng. & Tech Senior Men.	1118 Ag Structures and Desings
2702 Computational Thinking	5933 Money Skills for Math	2 years of Drafting at Voc. School
		2 years of Carpentry at Voc. School

SENIORS: These classes can only count towards the 4th math credit during the student's Senior Year if they scored a 19 or better on their ACT math section. All seniors with an ACT of 18 or lower who have already successfully completed Algebra I, II and Geometry must take Math Transitions. This requirement can only be waived by the Guidance Office.





SCIENCE DEPARTMENT

All students are required to earn at least three science credits. All students must successfully complete Integrated Science, Biology, and a third science course to graduate.



2535 SCIENCE & ENGINEERING Grade 9 (semester long course) 1 credit

21ST CENTURY SKILLS FOCUS AREA: Critical Thinking, Collaboration & Teamwork, Curiosity

This course will cover concepts in a variety of areas found in physical science. The students will design, calculate and implement engineering projects intended to illustrate the concepts students have learned or to solve a problem based on the concepts. Students will use mathematical skills, problem-solving techniques and group work both in and out of class to demonstrate their understanding.



2536 HONORS SCIENCE & ENGINEERING Grade 9 (semester long course) 1 credit

21ST CENTURY SKILLS FOCUS AREA: Critical Thinking, Collaboration & Teamwork, Curiosity

This course will integrate in-depth concepts from a variety of areas found in physical science. Students will design, calculate and implement multiple engineering projects intended to illustrate the concepts students have learned or to solve a problem based on the concepts. Students will use strong mathematical skills, problem-solving techniques and group work, both in and out of class, to demonstrate their understanding. Students must be able to work independently and in small groups, have strong math skills and the willingness to make group and individual presentations of results.

Criteria for class is based on top students scores from an average of grades, winter map, teacher recommendation, and KPREP.

2537 INTRO CHEMISTRY WITH EARTH/SPACE SCIENCE (INTEGRATED SCIENCE II) Grades 11-12 (semester long course)

21ST CENTURY SKILLS FOCUS AREA: Critical Thinking, Collaboration & Teamwork, Curiosity 1 credit

Students develop a conceptual understanding of Chemistry and Earth/Space Science through the use of scientific inquiry and project-based learning. They experience chemistry and earth/space science concepts such as the structure of atoms, structure and properties of matter, chemical reactions, geochemical cycles, and formation and ongoing changes of the universe. A scientific inquiry approach uses concrete hands-on experiences that require students to apply critical thinking skills.

This course meets graduation requirements for the third science credit. The depth of topic coverage is not equivalent to a college preparatory course.

PREREQUISITE: Signature of previous science teacher required.

2516A/2516B BIOLOGY A & B Grade 10 (year-long course) 1 credit

21ST CENTURY SKILLS FOCUS AREA: Creativity & Innovation/Imagination, Collaboration & Teamwork, Ethics

General biology survey course that exposes students to a variety of life science concepts. This course covers all of the core concepts including: the structure and function of the cell, cell division, inheritance, protein synthesis, cellular respiration, photosynthesis, and ecology. This course fulfills all requirements necessary for a pre-college course; however, the material covered and outside classroom assignments are not as demanding as a Honors Biology course.

1128A/1128B HONORS BIOLOGY A & B Grade 10 (year-long course) 1 credit

21ST CENTURY SKILLS FOCUS AREA: Creativity & Innovation/Imagination, Collaboration & Teamwork, Ethics

This course is offered as an alternative to general Biology. Emphasis will be placed on data analysis and student research writing skills. Additionally, this biological survey course will cover all national core concepts with extra attention given to laboratory investigation. Students will be expected to be able to work independently as well as in group settings. Active class participation is expected. Major concepts include structure and function of the cell, cell division, inheritance, protein synthesis, cellular respiration, photosynthesis and ecology.



1131 AP BIOLOGY Grades 10-12 (year-long course/weighted) 1 credit

21ST CENTURY SKILLS FOCUS AREA: Creativity & Innovation/Imagination, Collaboration & Teamwork, Ethics

A.P. Biology is a year-long laboratory based course designed to be the equivalent of a college introductory biology course and will include the following major themes: science as a process, evolution, energy transfer, continuity and change, relationship of structure and function, regulation, interdependence in nature, science technology and society. You will be expected to participate in projects, labs, and discussions during class and to keep up with college-level reading outside of class. Sophomores with a strong work ethic and a strong interest in pursuing biology at the college level are encouraged to take this course in place of Honors Biology.

PREREQUISITES: Sophomores must have completed AP Environmental Science during their freshman year and have the AP Environmental instructor's signature.

2521A/2521B CHEMISTRY A & B Grade 11-12 (year-long course) 1 credit

21ST CENTURY SKILLS FOCUS AREA: Problem Solving, Collaboration & Teamwork, Time Management & Organization

This course deals with changes in matter and energy; theories of atomic and molecular structure; measurement, calculations and problem solving in chemistry; chemical periodicity; bonding; and analytical laboratory techniques. Students should expect active in-class daily work with moderate outside-class assignments.



2531A/2531B HONORS CHEMISTRY A & B Grades 11-12 (**year-long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Problem Solving, Collaboration & Teamwork, Time Management & Organization

Recommended for pre-college students. This course deals with changes in matter and energy; theories of atomic and molecular structure; measurement, calculations and problem solving in chemistry; chemical periodicity; bonding; and analytical laboratory techniques. Students should expect active in-class daily work with moderate outside-class assignments.

PREREQUISITES: Credits earned in Algebra I A, Algebra I B, Integrated Science, Biology or Honors Biology.



1129 AP CHEMISTRY Grades 11-12 (**year-long course/weighted**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Collaboration & Teamwork, Time Management & Organization, Perseverance

A.P. Chemistry is designed to be the equivalent of the general chemistry course usually taken during the first college year.

Topics such as the structure of matter, kinetic theory of gases, reactions, chemical equilibria, chemical kinetics, and the basic concepts of thermodynamics are covered in the course. Students should expect active in-class daily work and extensive outside-class assignments.

PREREQUISITE: Honors Chemistry, Honors Algebra II or Algebra II

WKU DUAL CREDIT OFFERED THROUGH THIS COURSE.

The first half of a one-year course predominantly for majors in agriculture and consumer and family sciences, and for non-science **CHEM 107/108 FUNDAMENTALS OF ORGANIC CHEM**

A major portion of the course devoted to organic chemistry which ends the one-year course for non-science majors. It does not count toward a major or minor in chemistry.



2853 BODY STRUCTURES & FUNCTIONS (ANATOMY/PHYSIOLOGY) Grades 11-12 (**semester long course**) 1 credit

See course description in health Science Department.



2532 PHYSICS Grades 11-12 (**semester long course**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Collaboration & Teamwork, Time Management & Organization

Physics is an elective subject which studies the various aspects of science (mechanics, heat, momentum, electricity). The course is math-intensive consisting of lecture, video, lab experiences, and book work. Students should expect daily in-class work with a moderate amount of outside class assignments. Physics is recommended for students planning careers in engineering and math-related fields.

PREREQUISITES: Algebra I & II **MUST** be completed prior to enrollment, with a 'B' average or better.



1055 AP ENVIRONMENTAL SCIENCE Grades 9-12 (**year-long course/weighted**) 1 credit

21st CENTURY SKILLS FOCUS AREA: Creativity & Innovation/, Collaboration & Teamwork, Global & Cultural Literacy

This year long course is a fantastic opportunity for freshmen and sophomores specifically, but also for any student, to **experience early on the expectations and rigor of BCHS's Advance Placement program and courses**. This course is really a composite of disciplines including biology, chemistry, earth science, math, economics and the social sciences. Using concepts from these disciplines and more, we will investigate the workings and wonders of the Earth and the problems that surround it. This course will positive approach. We will stress understanding the interrelationships of the natural world, solving environmental problems using an interdisciplinary problem solving method, avoiding future problems by being proactive, and developing a stewardship of the Earth and its resources. You will be active participants in the learning process, doing lots of hands-on activities, projects, and discussions.

Criteria for class is based on top students scores from an average of grades, winter map, teacher recommendation, and KPREP.

This course cannot take the place of the 9th grade science requirement Science and Engineering. Science and Engineering has a totally different curriculum.

Students wishing to take AP Biology instead of Honors Biology in the sophomore year must take AP Environmental Science in the freshman year along with Integrated Science. In order to register for AP Biology, sophomores must have completed AP Environmental Science during the freshman year with an 'A' average and have the AP Environmental Science instructor's signature.

CAMBELLSVILLE UNIVERSITY DUAL CREDIT OFFERED THROUGH THIS COURSE.





ENGLISH DEPARTMENT

The goal of the English Department is to equip students with the necessary communication skills to interact and learn effectively in other academic classes, in a post-secondary education, and on the job. Students must work independently and in groups. Extensive reading and other homework will be required in all Advanced/Honors/AP classes. The curriculum and standards, based on the Common Core Standards for English Language Arts, will benefit students regardless of their chosen future goals. Students must take an English core class during each school year. Successful completion of a required English class is necessary prior to enrollment in the next sequential required class. Students may not take two English courses during the same term.

2309A/2309B ENGLISH I A & B Grade 9 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Critical Thinking, Informational Literacy

This course requires numerous reading selections and writing activities. The application of grammar rules will be addressed through writing for a wide variety of purposes and audiences. Students will be expected to engage in literary analysis of works from different cultures and in varying formats (novels, short stories, poetry, drama, and nonfiction).

21st CENTURY SKILLS:

2310A/2310B HONORS ENGLISH I A & B Grade 9 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Critical Thinking, Informational Literacy

This course presents a thematic approach to literature and writing with some emphasis on the Arts and Humanities. Major course objectives include development of writing skills and style through a variety of tasks, self-sufficiency, and the ability to respond to literature on various levels. This class enhances creative thinking through numerous group and individual projects and presentation. Students must read extensively.

Prerequisites: (Students that qualify will be notified prior to registration.)

Criteria for class is based on top students scores from an average of grades, winter map, teacher recommendation, and KPREP.

2323A/2323B ENGLISH II A & B Grade 10 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Critical Thinking, Informational Literacy

In this course students study different literary genres from a variety of cultural perspectives. The curriculum involves extensive reading selections, writing activities, and related projects. Numerous literacy skills are employed to reinforce the study of grammar, literature, and basic research and study habits. Students are expected to function as independent learners and responsible group members who can successfully assess their own and others' work.

PREREQUISITE: English I

2313A/2313B HONORS ENGLISH II A & B Grade 10 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Critical Thinking, Informational Literacy

This course continues the format established in Honors English I with increased emphasis on reading and analyzing literature. Students sharpen their critical thinking skills, refine their writing styles, and focus on mastery of English grammar. This class requires extensive reading, writing, and independent work. Expectations and grading standards are significantly higher than those for English II.

Prerequisites:

1. A or B in each term of Hon Eng I
2. Pre AP Eng I or Eng I Teacher Recommendation
3. Summer Reading Assignment

2332A/2332B ENGLISH III A & B Grade 11 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Critical Thinking, Informational Literacy

The basic content of this course is similar to that of Advanced English III, with a specific focus on the communication and writing skills necessary for the working environment. Students can expect to apply their literary studies to non-academic situations.

PREREQUISITE: English I, English II

2333A/2333B COLLEGE PREP ENGLISH III A & B Grade 11 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Critical Thinking, Informational Literacy

Through an accelerated reading pace, this course analyzes various American perspectives in a chronological format. Students first study literary terms and techniques in their analysis of American Literature, then apply these skills in their own writing. Evaluation takes place using a variety of methods, including oral presentations, projects, tests, papers, and on demand writing. Students will enhance and refine their knowledge of language skills in preparation for college admission tests and for application in their own writing. The class writing focus will be on college preparedness, with emphasis on informational and argumentative writing. Students who plan to pursue a postsecondary education are strongly encouraged to take this course.





2330 AP ENGLISH III A & B (LANGUAGE) Grade 11 (year-long course/weighted) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Critical Thinking, Informational Literacy

As this class is the equivalent of a college composition course, students will write in a variety of forms – narration exposition, and argumentation – to prepare them to write confidently in college and in their professional lives. During this course, students will also become critical readers of prose written in a variety of periods with a focus on non-fiction; they will also cover the survey of American literature. As an A.P. course endorsed by the College Board, this class offers rigorous curriculum that requires motivation and maturity from students. A working knowledge of the structure of the English language and strong analytical writing skills are essential for success in this course.

CAMPBELLSVILLE UNIVERSITY DUAL CREDIT OFFERED THROUGH THIS COURSE.

NOTE: Students may be asked to purchase additional books for this class.

PREREQUISITES:

1. At least one year of Honors English with an A/B in each term; A's in any other English classes both terms
2. MINIMUM combined average of 22 for English & Reading on the PLAN; successful students typically have an average of 24+
3. Successful, timely completion of summer work, to be assigned after spring break
4. Completed AP contract

2344 ADVANCED ENGLISH IV Grade 12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Critical Thinking, Informational Literacy

This course combines College Prep English IV with a college preparatory curriculum outlined by Eastern Kentucky University. This course is required for seniors who plan to pursue postsecondary education, but have not met the State Benchmarks for ACT in English and/or Reading. Students are given the opportunity to improve their skills in critical reading, academic writing, and academic behaviors necessary to effectively transition from high school to English 101 without need for remedial courses. In addition, students will be introduced to British literature using a thematic and/or historical format that represents a variety of literary genres. Students will be placed in this course based on ACT scores in Reading and/or English

2346 ENGLISH TRANSITIONS Grade 12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Critical Thinking, Informational Literacy

This course is required for students who have not met the State Benchmarks for ACT in English and/or Reading after taking English Transitions A or English IV. This course builds on skills gained in Advanced English IV. In this course, students are again given the opportunity to improve their skills in critical reading, academic writing, and academic behaviors necessary to effectively transition from high school to English 101 without need for remedial courses. This course does not replace your English IV requirement. Students will be placed in this course based on ACT scores in Reading and/or English

2342 COLLEGE PREP ENGLISH IV Grade 12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Critical Thinking, Informational Literacy

Students who plan to pursue a postsecondary education and have met State Benchmarks for ACT in English and Reading are encouraged to take this course. In this course, students are introduced to the study of British literature using a thematic and/or historical format that represents a variety of literary genres. The class includes extensive writing and communication skill development in preparation for college English courses.

PREREQUISITES: Passing grades in English I, English II, and English III



2341 A.P. ENGLISH IV A & B (LITERATURE) Grade 12 (year-long course/weighted) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Critical Thinking, Informational Literacy

This course will engage students in the careful reading and critical analysis of British and World literature, with inclusion of some American writers in preparation for the AP exam. Students will pursue an intensive study of works from various genres and periods, concentrating on works of literary merit appropriate for the AP exam. Writing will be an integral part of the course, with a focus on exposition, and some creative writing. As writers, students will be expected to develop stylistic maturity; students must also contribute to frequent class discussions in a meaningful, engaged manner.

CAMPBELLSVILLE UNIVERSITY DUAL CREDIT OFFERED THROUGH THIS COURSE.

NOTE: Students may be asked to purchase additional books for this class.

PREREQUISITES:

1. At least one year of Honors or AP English with an A/B in each term; A's in non-Honors English classes each term
2. MINIMUM combined average of 23 for English and Reading on the ACT.
3. Successful, timely completion of summer work
4. Completed AP contract
5. Students taking AP Literature are **strongly encouraged** to have taken AP Language or Honors English III.

Students must complete the entire year to have English IV credit for graduation.

2331 CREATIVE WRITING Grades 10-12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Creativity & Innovation/Imagination, Curiosity, Productivity

This course is designed to cultivate a student's ability as a creative writer in a hands-on, workshop environment. Students will explore various techniques and genres to improve their craft and to create original works in fiction and non-fiction for possible publication.

PREREQUISITE: Teacher Signature





2345 ENG 100 (INTRODUCTION TO COLLEGE WRITING) Grade 12 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Communication, Critical Thinking, Informational Literacy

(Class does not count as a English IV credit.) This class allows students to earn college credit while still attending BCHS. As a dual credit course, it emphasizes writing for a variety of rhetorical situations with attention to voice, audience, and purpose. It focuses on the development of one's writing skills by highlighting the importance of idea development, organization, revision, and editing.

It also allows students to practice their research and citation skills. It is writing-intensive, as students learn to write by actually practicing writing. The reading for this class will focus on nonfiction essays that lead to a discussion about how and why authors make rhetorical and stylistic choices.

PREREQUISITES:

1. Passing grades in English I, English II, English III and English IV

2. Minimum average of 18 for the ACT English and Reading scores **(In order to meet the dual credit standards, students must take English IV in the Fall and English 100 in the Spring.)**

3. Signature of the English 100 instructor





SOCIAL STUDIES DEPARTMENT

The general aim of the Social Studies Department is to transit to each student a knowledge of the beginnings, development, and attainments of the society in which they live, and to understand through world history the background which produced the culture in which we live. The major objective for our Social Studies program is to give guidance and direction to each student, according to their ability and potential, so he/she will be able to contribute to the good of local, national, and global society.

2246A/2246B WORLD CIVILIZATION A & B Grades 10 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Perseverance, Global & Cultural Literacy

World Civilization is a required curriculum course. This course will review world history before 1500 and then focus on a survey of history to the present. The major objectives are to study the continuity of history, the causes and effects of past happenings on justice, morals and values in order to help develop the desire by students to participate more actively as a citizen in one's government. The students will learn how history affects their lives and their futures. The students will learn to assume more responsibility for their own learning. Students will be expected to actively participate in class and group activities. Moderate outside assignments such as critical writings, projects, and map work will be required.

2273A/2273B HONORS WORLD CIVILIZATIONS A & B Grade 10 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Perseverance, Global & Cultural Literacy

Honors AP World Studies presents an integrated thematic approach to the study of the world since 1350. This course will examine not only Western Civilizations, but also Africa, Asia, and Latin research as well as numerous group and individual projects and presentations. Students will also spend extensive time developing their writing skills.

PREREQUISITE: Student must have signature of the Honors World Civ instructor and summer assignment.

2274 AP WORLD HISTORY Grades 10 -12 (year-long course/weighted) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Perseverance, Global & Cultural Literacy

AP World History covers the history of the world from 600 C.E. to the present with an introduction unit on the period before (covering around 8000 B.C.E to 600 C.E.). The course emphasizes "patterns of change" and the connections between the various world cultures throughout the time period being studied. Students will gain an understanding of the global experiences of humanity and be able to apply that knowledge to their growth and development as "world citizens." The class will prepare students to be successful on the AP World History exam.

THIS CAN BE TAKEN IN PLACE OF WORLD CIVILIZATION.

PREREQUISITE: Student must have signature of the AP World History instructor and summer assignment.

2243A/2243B U.S. HISTORY A & B Grade 11 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Collaboration & Teamwork, Problem Solving

U.S. History is a required curriculum course designed for studying the developments of America. After a brief review of early American History, the focus will be on Reconstruction to the present. There will be numerous class and group projects required, as well as individual journals and/or notebooks kept. Discussions on the causes and effects of depressions, wars, industrialization, racism, immigration, ecology, and political problems will be conducted. These discussions are designed to aid the students in dealing with problems of racism, other forms of prejudice, politics, economics, and general values. The students will learn how our nation became a world power through imperialism, wars, and economic pressures. After WWII, the Cold War, Eisenhower, Kennedy, the 60s with Afro-American and minority problems, Watergate, and other areas such as Vietnam, the Middle East, Central America, the breakup of Russia, the development of Africa and others will be studied. One of the major aims of the class will be to develop thoughts, individual opinions, and values so students can be productive citizens. Individual notebooks or journals, group and individual projects, critical writings and testing will be required for class. Students are required to actively participate in all class activities. Moderate assignments such as critical writings, map work, etc. will be given.

PREREQUISITES: World Civilization

2245A/2245B HONORS U.S. HISTORY A & B Grade 11 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Collaboration & Teamwork, Problem Solving

Honors U.S. History is a required curriculum course designed for an in-depth analysis of the United States history, culture and policies. After a brief review of early American History, the focus will be on Reconstruction to the present. The class will be at an accelerated research level as well as a reading pace of primary and secondary sources, as well as individual journals and/or notebooks kept. High level discussions and analysis on the causes and effects of depressions, wars, industrialization, racism, immigration, ecology, and political problems will be conducted. These discussions are designed to aid the students in dealing with problems of racism, other forms of prejudice, politics, economics, and general values. The students will learn how our nation became a world power through imperialism, wars, and economic pressures. After WWII, the Cold War, Eisenhower, Kennedy, the 60s with Afro-American and minority problems, Watergate, and other areas such as Vietnam, the Middle East, Central America, the breakup of Russia, the development of Africa and others will be studied. One of the major aims of the class will be to develop high level thoughts, individual opinions, and values so students can be productive citizens. Individual notebooks or journals, group and individual projects, critical writings and testing will be required for class. Individual reading and assignments such as critical writings, map work, etc. will be given.

PREREQUISITES: World Civilization. Student must have signature of the Honors US History instructor.





2244 AP US HISTORY Grade 11 (year-long course/weighted) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Collaboration & Teamwork, Problem Solving

This course places attention upon the understanding equivalent to those gained in a college-level introductory course. The student will study the development of the United States in the 18th, 19th, and 20th centuries, during which the United States grew from a small rural colonial enclave to a great world power. This era included the emergence of a distinctive American character in life and politics, witness the single greatest catastrophe in American History (the Civil War) and end as the United States became a world power. When considering this class students should understand that above average reading and writing skills are needed. This course consists of heavy reading assignments and a tremendous amount of out of school work and a mandatory summer assignment.

PREREQUISITE: Honors World Civ with an 'A' or 'B' or World Civ with an 'A' minimum and permission of World Civ and AP instructors. Student must have permission (signature) of the World Civ and AP instructors.

THIS CAN BE TAKEN IN PLACE OF US HISTORY.

2272 AMERICAN GOVERNMENT Grade 12 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Civic Literacy, Ethics, Critical Thinking

This course will be built around five essential questions:

1. What are civic life, politics, and government? 2. What are the foundations of the American political system? 3. How does the government, established by the Constitution, embody the purpose, values, and principles of American democracy? 4. What is the relationship of the United States to other nations and to world affairs? 5. What are the roles of the citizen in American democracy? Through current events, web-sites, simulations and traditional textbook use, students will learn that Democracy is not a spectator sport, it demands citizens to participate. The major goal of American Government will be for students to learn how to use knowledge to benefit themselves and our country rather than allowing the bureaucracy to manipulate them.

PREREQUISITES: World Civilizations and U.S. History

2272 ONLINE AMERICAN GOVERNMENT Grade 12 (year-long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Civic Literacy, Ethics, Critical Thinking

This course will be built around five essential questions:

This course will cover the same content as American Government, but will be administered online. Students will be required to enter into agreements pertaining to a later start time for school, leaving school earlier, and course expectations.

PREREQUISITES: World Civilizations and U.S. History



2209 AP AMERICAN GOVERNMENT Grade 12 (year-long class/weighted)

21st CENTURY SKILLS FOCUS AREA: Civic Literacy, Ethics, Critical Thinking

This course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. While there is no single approach that an AP Government & Politics: United States course must follow, certain topics are generally covered in college courses

PREREQUISITE: Honors World Civ and Honors/AP US History with an 'A' or 'B'. Student must have signature of the US History and AP instructor.



2210 AP PSYCHOLOGY Grades 11-12 (year-long course/weighted) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Collaboration & Teamwork, Curiosity

This course is designed to introduce students to the scientific study of behavior and mental processes of human beings and other species. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology (including Biopsychology, Human Development, Sensation & Perception, Learning, Memory, Personality, Motivation, Psychological Disorders, Therapy/Treatment, and Social Psychology). They also learn about the ethics and research methods psychologists use in their science and practice. This class is taught at the college level, and qualifying students may apply for dual credit with Western Kentucky University to earn 3 hours of college credit.

WKU DUAL CREDIT OFFERED THROUGH THIS COURSE.



2276 AP HUMAN GEOGRAPHY Grades 9-12 (year-long course/weighted) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Perseverance, Global & Cultural Literacy

AP Human Geography is the study of human understanding, use, and alteration of the Earth's surface through analysis of patterns and processes. Students will learn the impact humans have not only on the Earth, but also on each other. Emphasis is placed upon human social organization and the methods/tools geographers use. The course will be divided into seven units covering geographic tools, population, culture, political organization of space, rural land use, industrialization and economics, and cities and urban land use.

PREREQUISITE: Criteria for class is based on top students scores from an average of grades, winter map, teacher recommendation, and KPREP.





PHYSICAL EDUCATION

Wellness is part of the whole educational process which aims to assist in the development and maintenance of students physically, neuromuscular, socially, mentally, and emotionally, primarily through the medium of experiences which are selected and conducted for the purpose of realizing these outcomes.

The aims of the Wellness Department are to advance the quality of living by providing the opportunity and encouragement for the development of the individual's social effectiveness and personal well-being.

This is achieved through controlled participation in a program of physical and health activities conducted with effective guidance, ample equipment and facilities.

Students are only allowed to take one physical education class per semester. Students wishing to take Female Fitness, Weight Training and Rebel Boot Camp more than once a year must have instructor's and principal's signature.

2861B BOYS WELLNESS Grade 9 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Perseverance, Collaboration & Teamwork, Dependability

This is an all-boys class. Wellness is the combination of Health and Physical Education and is designed to prepare the individual socially, physically and mentally to be a functional unit of our society. The course has multiple source of content derived from personality in trouble, your body in action, systems of the body, diseases, and drug use and abuse. Students are required to keep a notebook. Guest speakers, videos, and other media are used. The Physical Education entity is designed with content areas within the range of physical fitness, individual, dual and team emphasis of instruction. The content areas are divided into multi-units based on needs of participating students. Additional individual content instruction for handicapped students of any nature may be provided for up on justified need. May not be taken in the same semester as other PE courses.

Wellness is an 18 week course with Health being 9 weeks of instruction and Physical Education being 9 weeks of instruction.

2861G GIRLS WELLNESS Grade 9 (semester long course) 1 credit

21st CENTURY SKILLS FOCUS AREA: Perseverance, Collaboration & Teamwork, Dependability

This is an all-girls class. Wellness is the combination of Health and Physical Education and is designed to prepare the individual socially, physically and mentally to be a functional unit of our society. The course has multiple source of content derived from personality in trouble, your body in action, systems of the body, diseases, and drug use and abuse. Students are required to keep a notebook. Guest speakers, videos, and other media are used. The Physical Education entity is designed with content areas within the range of physical fitness, individual, dual and team emphasis of instruction. The content areas are divided into multi-units based on needs of participating students. Additional individual content instruction for handicapped students of any nature may be provided for up on justified need. May not be taken in the same semester as other PE courses.

Wellness is an 18 week course with Health being 9 weeks of instruction and Physical Education being 9 weeks of instruction.

28801 FEMALE FITNESS I Grade 9-12 (semester long course) ½ credit

21st CENTURY SKILLS FOCUS AREA: Initiative, Collaboration & Teamwork, Productivity

An all female class that is a continuation of Wellness with a content shift toward the fitness aspect of Physical Education. Objectives of the course are to allow the student to evaluate, monitor, and improve her own fitness level in a noncompetitive environment.

Personal development using ply metrics and resistance training with a focus on core development. Personal nutrition will be emphasized as it relates to the student's training and personal development. May not be taken in the same semester as other PE courses.

PREREQUISITE: Wellness

28802 FEMALE FITNESS II Grade 10-12 (semester long course) ½ credit

21st CENTURY SKILLS FOCUS AREA: Initiative, Collaboration & Teamwork, Productivity

An all female class that is a continuation of Female Fitness I. Students will continue to evaluate, monitor, and improve her own fitness level in a noncompetitive environment. Continuing development using ply metrics and resistance training focusing on core development. Personal nutrition will continue to be emphasized. May not be taken in the same semester as other PE courses.

PREREQUISITE: Female Fitness I

28800 FEMALE FITNESS III Grade 10-12 (semester long course) ½ credit

21st CENTURY SKILLS FOCUS AREA: Initiative, Collaboration & Teamwork, Productivity

An all female class that is a continuation of Female Fitness II. Students will continue to evaluate, monitor, and improve her own fitness level in a noncompetitive environment. Continuing development using ply metrics and resistance training focusing on core development. Personal nutrition will continue to be emphasized. May not be taken in the same semester as other PE courses.

PREREQUISITE: Female Fitness II

28803 FEMALE FITNESS IV Grade 11-12 (semester long course) ½ credit

21st CENTURY SKILLS FOCUS AREA: Initiative, Collaboration & Teamwork, Productivity

An all female class that is a continuation of Female Fitness III. Students will continue to evaluate, monitor, and improve her own fitness level in a noncompetitive environment. Continuing development using ply metrics and resistance training focusing on core development. Personal nutrition will continue to be emphasized. May not be taken in the same semester as other PE courses.

PREREQUISITE: Female Fitness II



2882 TEAM SPORTS Grade 9-12 **(semester long course)** ½ credit

21st CENTURY SKILLS FOCUS AREA: Collaboration & Teamwork, Productivity, Leadership & Responsibility

Team Sports: Students learn tactics and skills of teaching, coaching, and playing flag football, volleyball, basketball, soccer, tennis, and other individualized/team indoor and outdoor sports. They perform skills at an intermediate level, learn proper terminology, strategies of play, application of the principles of movement and understanding of skill progression and development. Students will also learn fair play and cooperation. May not be taken in the same semester as other PE courses. PREREQUISITE: Successful completion of Wellness. PREREQUISITE: Successful completion of Wellness. May not be taken in Fall of 9th grade year.

2883 WEIGHT TRAINING I Grade 9 **(semester long course)** ½ credit

21st CENTURY SKILLS FOCUS AREA: Collaboration & Teamwork, Initiative, Leadership & Responsibility

A continuation of Wellness I with a content shift toward the fitness aspect of Physical Education. Objectives of the course are to allow the student to evaluate, monitor, and improve his/her own fitness level. To allow the student to be successful in his/her own fitness development by not competing against others. To get information about student's fitness levels, compare his/her results and then select the methods of improvement. Instruction will be more individualized to make students aware of their individual potential. May not be taken in the same semester as other PE courses. PREREQUISITE: Wellness

2884 WEIGHT TRAINING II Grades 10-12 **(semester long course)** ½ credit

21st CENTURY SKILLS FOCUS AREA: Collaboration & Teamwork, Initiative, Leadership & Responsibility

Students will learn to properly execute a variety of weight training and conditioning exercises. Along with learning the basic fundamentals, students will be introduced to several training programs. Students will be taught how to change the structure of these programs to meet specific training goals. Some moderate outside of class work required. PREREQUISITE: Successful completion of Wellness. May not be taken in the same semester as other PE courses.

2888 WEIGHT TRAINING III Grades 11-12 **(semester long course)** ½ credit

21st CENTURY SKILLS FOCUS AREA: Collaboration & Teamwork, Initiative, Leadership & Responsibility

Each student will be involved in more intense conditioning workouts. This would include aerobic and anaerobic training techniques. Each student will study how to plan and write his or her own workout concentrating on specific body preferences. In addition, each student will study the importance of nutrition in a healthy lifestyle. May not be taken in the same semester as other PE courses. PREREQUISITE: Wellness and PE II

2889 WEIGHT TRAINING IV Grades 11-12 **(semester long course)** ½ credit

21st CENTURY SKILLS FOCUS AREA: Collaboration & Teamwork, Initiative, Leadership & Responsibility

This is a continuation of PE IV. Each student will be involved in more intense conditioning workouts including aerobic and anaerobic training techniques. Each student will continue to study how to plan and write his or her own workout concentrating on specific body preferences. Students will study the importance of nutrition in a healthy lifestyle. May not be taken in the same semester as other PE courses.

PREREQUISITE: Wellness and PE III

2901 REBEL BOOT CAMP I Grade 9-12 **(semester long course)** ½ credit

21st CENTURY SKILLS FOCUS AREA: Leadership & Responsibility, Perseverance, Initiative

The objectives of this course is build on any weight lifting training the individual may have prior to this class and for the student to use proper technique to reach their weight lifting goals. Students will be introduced to various weight lifting techniques and agility training that are used on the college and professional level. May not be taken in the same semester as other PE courses. At times, this course will meet before 8:05am. PREREQUISITE: MUST HAVE INSTRUCTOR SIGNATURE PRIOR TO REGISTRATION

2902 REBEL BOOT CAMP II Grade 9-12 **(semester long course)** ½ credit

21st CENTURY SKILLS FOCUS AREA: Leadership & Responsibility, Perseverance, Initiative

The objectives of this course is build on any weight lifting training the individual may have prior to this class and for the student to use proper technique to reach their weight lifting goals. Students will be introduced to various weight lifting techniques and agility training that are used on the college and professional level. May not be taken in the same semester as other PE courses. At times, this course will meet before 8:05am. PREREQUISITE: REBEL BOOT CAMP I & MUST HAVE INSTRUCTOR SIGNATURE PRIOR TO REGISTRATION

2903 REBEL BOOT CAMP III Grade 9-12 **(semester long course)** ½ credit

21st CENTURY SKILLS FOCUS AREA: Leadership & Responsibility, Perseverance, Initiative

The objectives of this course is build on any weight lifting training the individual may have prior to this class and for the student to use proper technique to reach their weight lifting goals. Students will be introduced to various weight lifting techniques and agility training that are used on the college and professional level. May not be taken in the same semester as other PE courses. At times, this course will meet before 8:05am. PREREQUISITE: REBEL BOOT CAMP II & MUST HAVE INSTRUCTOR SIGNATURE PRIOR TO REGISTRATION

2904 REBEL BOOT CAMP IV Grade 9-12 **(semester long course)** ½ credit

21st CENTURY SKILLS FOCUS AREA: Leadership & Responsibility, Perseverance, Initiative

The objectives of this course is build on any weight lifting training the individual may have prior to this class and for the student to use proper technique to reach their weight lifting goals. Students will be introduced to various weight lifting techniques and agility training that are used on the college and professional level. May not be taken in the same semester as other PE courses. At times, this course will meet before 8:5am. PREREQUISITE: REBEL BOOT CAMP III & MUST HAVE INSTRUCTOR SIGNATURE PRIOR TO REGISTRATION

2886 ATHLETIC TRAINING Grades 10-12 **(semester long course)** (\$10 course fee) 1 credit

21st CENTURY SKILLS FOCUS AREA: Critical Thinking, Leadership & Responsibility, Productivity & Dependability

Provides a course in beginning athletic training which will include CPR/First Aid, Bloodborne Pathogen training, beginning emergency medicine, sports medicine, basic anatomy and physiology. This course is well suited for anyone interested in medicine and other health-related occupations. Students will work with the different athletic teams at schools, observe in physical therapist's clinics, or other extra curriculum class activities. (Minimum of 20 hours out-of-class approved activities.)





OFF CAMPUS VOCATIONAL INSTRUCTION

KENTUCKY TECH-GARRARD COUNTY TECH CENTER COURSE OFFERINGS

Our preferences for Auto, Carpentry, Welding and Electricity are; AM classes are primarily for beginning students, and PM classes are for returning students. Design and Engineering (Drafting) AM classes are for returning students and PM classes are introductory classes. Health Sciences currently have no requirements other than students wanting to take the MNA 100 classes need to be minimum age of 17. It is preferable for students to take the introductory classes prior to MNA 100 but not mandatory.

Our priorities for students are:

1. Returning students (with no safety or disciplinary issues)
2. Juniors
3. First time Seniors
4. Sophomores

The following courses are offered at Garrard Co. ATC. These courses meet from one (1) – two (2) blocks each day for one credit each block. A student may earn a maximum of eight (8) credits at the Technology Center.

AUTOMOTIVE TECHNOLOGY

5789 ADX 150/151 Engine Repair (year long course)

This course provides a series of lectures and demonstrations on the fundamentals of engine repair, troubleshooting, and engine operation and maintenance. It is assumed that: 1. in all areas, appropriate theory, safety, and support instruction will be required for performing each task, including proper care and cleaning of customers vehicles. 2. The instruction has included identification and use of appropriate tools and testing and measurement equipment required to accomplish certain tasks; 3. The student has received the necessary training to locate and use current reference and training materials from accepted industry publications and resources; 4. In all areas, the student has demonstrated the ability to write work orders and warranty reports, to include information regarding problem resolution and the results of the work performed for the customer and manufacturer. The writing process will incorporate the "Three C's" (concern, cause and correction) as a format to communicate this information

5790 AUT 110/111 Brake System (year long course)

This course involves the operational theory and application of hydraulic and anti-lock brake systems; disc and drum brakes are discussed. It is assumed that: 1. in all areas, appropriate theory, safety, and support instruction will be required for performing each task, including proper care and cleaning of customers vehicles. 2. The instruction has included identification and use of appropriate tools and testing and measurement equipment required to accomplish certain tasks; 3. The student has received the necessary training to locate and use current reference and training materials from accepted industry publications and resources; 4. In all areas, the student has demonstrated the ability to write work orders and warranty reports, to include information regarding problem resolution and the results of the work performed for the customer and manufacturer. The writing process will incorporate the "Three C's" (concern, cause and correction) as a format to communicate this information

5791 ADX 120/121 Basic Auto Electricity (year long course)

This course introduces the student to the principles, theories, and concepts of the automotive electrical system that include the unique diagramming, coding and locating of wiring, and component devices. It is assumed that: 1. in all areas, appropriate theory, safety, and support instruction will be required for performing each task, including proper care and cleaning of customers vehicles. 2. The instruction has included identification and use of appropriate tools and testing and measurement equipment required to accomplish certain tasks; 3. The student has received the necessary training to locate and use current reference and training materials from accepted industry publications and resources; 4. In all areas, the student has demonstrated the ability to write work orders and warranty reports, to include information regarding problem resolution and the results of the work performed for the customer and manufacturer. The writing process will incorporate the "Three C's" (concern, cause and correction) as a format to communicate this information

PREREQUISITE: ADX 150/151

5792 ADX 260-261 Electrical Systems (year long course)

This course focuses on the theory and principles relating to automotive electrical/electronic components. It is assumed that: 1. in all areas, appropriate theory, safety, and support instruction will be required for performing each task, including proper care and cleaning of customers vehicles. 2. The instruction has included identification and use of appropriate tools and testing and measurement equipment required to accomplish certain tasks; 3. The student has received the necessary training to locate and use current reference and training materials from accepted industry publications and resources; 4. In all areas, the student has demonstrated the ability to write work orders and warranty reports, to include information regarding problem resolution and the results of the work performed for the customer and manufacturer. The writing process will incorporate the "Three C's" (concern, cause and correction) as a format to communicate this information

PREREQUISITE: ADX 120/121



5793 AUT 160-161 Suspension & Steering (year long course)

This course presents the automotive suspension system, the diagnosing of suspension problems, identifying components, recognizing tire wear problems, wheel balancing, and the use of alignment equipment. It is assumed that: 1. in all areas, appropriate theory, safety, and support instruction will be required for performing each task, including proper care and cleaning of customers vehicles.

2. The instruction has included identification and use of appropriate tools and testing and measurement equipment required to accomplish certain tasks; 3. The student has received the necessary training to locate and use current reference and training materials from accepted industry publications and resources; 4. In all areas, the student has demonstrated the ability to write work orders and warranty reports, to include information regarding problem resolution and the results of the work performed for the customer and manufacturer. The writing process will incorporate the "Three C's" (concern, cause and correction) as a format to communicate this information

5794 AUT 240/241 Computer Control System & Diag. (year long course)

This course presents the comprehensive diagnostics of on-board computer control systems. The problem solving process, including flow chart reading, will be presented. It is assumed that: 1. In all areas, appropriate theory, safety, and support instruction will be required for performing each task; 2. The instruction has included identification and use of appropriate tools and testing and measurement equipment required to accomplish certain tasks; 3. The student has received the necessary training to locate and use current reference and training materials from accepted industry publications and resources; 4. In all areas, the student has demonstrated the ability to write work orders and warranty reports, to include information regarding problem resolution and the results of the work performed for the customer and manufacturer. The writing process will incorporate the "Three C's" (concern, cause and correction) as a format to communicate this information

PREREQUISITE: ADX 150/151

CARPENTRY

5798 CAR 126/127 Introduction to Carpentry (year long course)

This course emphasizes the types, grades, sizes, and standards of building materials including the types of fasteners and their correct uses. Students will also learn to correctly utilize and maintain commonly used hand and power tools. Safety in the lab and on the job site is stressed

5801 CAR 140/141 Site Layout (year long course)

Students will prepare materials; calculate the cost for a building site, and layout a site with a transit, locating property lines and corners. Students calculate the amount of concrete needed for footing and foundation walls and construct different types of foundations and forms

5802 BRX 220 Blueprinting Reading for Construction (semester long course)

This course will provide a series of lectures, demonstrations, and practice exercises in the study of symbols, views, sections, details, and material lists found on architectural working drawings, building materials and specifications lists, and construction dimensioning systems and charts/schedules

5803 CAR 190/191 Floor & Wall Framing (year long course)

The student will practice floor framing, layout, and construction of floor frames. Cutting and installing floor and wall framing members according to plans and specifications will also be practiced

5804 CAR 196/197 Ceiling & Roof Framing (year long course)

This course covers roof types and combinations of roof types used in the construction industry. The emphasis of this course is on layout, cutting and installing ceiling joists, rafters, roof decking, and roof coverings

5806 CAR 150/151 Construction Forms (year long course)

This course will introduce the student to heavy and commercial construction. The student will receive information about rigging, wall forms, vertical piers and columns, grade curb forms, horizontal beam forms, above-grade slab systems, fireproof encasement forms, stair forms, bridge and bridge deck forms

5805 CAR 200/201 Exterior & Interior Finishing (year long course)

This course presents basic concepts of building trim, gypsum wallboard, paneling, base, ceiling and wall molding with instruction on acoustical ceilings and insulation, wood floors, tile, inlaid adhesive and tools of the flooring trade. This course will continue to refine the techniques and skills taught in the previous carpentry courses. In this course, cost control, speed, and precision are emphasized. In addition, students will perfect the skills associated with the exterior finishing of a house

PREREQUISITE: Teacher Permission

5799 ISX 100 Industrial Safety (semester long course)

This course provides practical training in industrial safety. The students are taught to observe general safety rules and regulations, to apply work site and shop safety rules, and to apply OSHA regulations.



DRAFTING

DESIGN AND ENGINEERING ELECTIVES AVAILABLE AT GARRARD COUNTY ATC

These courses are offered by the Design and Engineering Technology program. Four courses currently have dual credit and/or articulation agreements with several colleges at no cost. All courses are very “hands on” and interactive with very minimal homework assignments. For more information contact Greg Taylor at 859-792-2144 or email at gregoryd.taylor@ky.gov

5806 DRAFTING FUNDAMENTALS (DFT 102) (year long course)

This is a beginner's course that introduces students to the wide variety of design and engineering careers. They will learn and apply the fundamentals of architectural and engineering concepts to sketches and drawings. This course covers all the essential basics such as multi-view projection, scale reading, dimensioning techniques and much more that will give the students a strong foundation to build upon as they progress into the more advanced classes. (FREE COLLEGE CREDIT)

5812 INTRODUCTION TO COMPUTER AIDED DRAFTING (C.A.D.) (DFT 122) (year long course)

Students enrolled in this course will learn to create engineering drawings utilizing AutoCAD. AutoCAD is the leading software used by the majority of engineering/architectural firms and local industry. This course is crucial to any student that is serious about pursuing a career related to design and/or engineering. (FREE COLLEGE CREDIT)

PREREQUISITE: DFT 102 or Teacher Permission

5811 ENGINEERING GRAPHICS (DFT 112) (year long course)

This is an advanced course in which students will build upon their existing knowledge of AutoCAD and the various types of engineering drawings used in local industry. This will prepare students for the advanced concepts and visualization skills required in college and/or the workforce. (FREE COLLEGE CREDIT)

PREREQUISITE: DFT 102

3601 INTERMEDIATE CAD (3D) (DFT 152) (year long course)

Students will discover the exciting world of 3D CAD in this advanced course. They will learn to use the popular Inventor software to create “lifelike” three dimensional objects on the computer. Students will also have the opportunity to create their own designs on our state of the art 3D printer. This machine actually creates a plastic prototype model of the students' CAD drawing which they can then analyze and test.

PREREQUISITES: DFT 122

5813 INTRODUCTION TO ARCHITECTURE (ADFT 130) (year long course)

In this course students will learn the fundamentals of architectural design. Using AutoCAD and various other software, students will create floor plans, elevations, wall sections and other common architectural drawings. Understanding basic construction concepts is **extremely beneficial** to all students pursuing any design or engineering career. (FREE COLLEGE CREDIT)

PREREQUISITE: DFT 122

5817 PARAMEDIC MODELING (ADVANCED 3D) (DFT 252) (year long course)

This course takes students further into the advanced 3D features of Inventor and SolidWorks CAD software. They will explore more in depth 3D capabilities such as animations, stress analysis, sheet metal design and much more. This is an excellent course for students interested in pursuing mechanical engineering or design careers of any type.

PREREQUISITE: DFT 152

3710 ARCHITECTURAL DESIGN (ADFT 240) (year long course)

In this advanced architectural course, students will explore in more detail what is involved in the design and construction of residential and commercial buildings. In addition to AutoCAD, they will also be using popular 3D software such as Autodesk Revit to create their own architectural designs. This is a chance for students to really use their imagination and show off their creative skills.

PREREQUISITE: ADFT 130

5818 SPECIAL PROBLEMS (C.A.D.) (DFT 293) (year long course)

This course gives the students the opportunity to do their own design work in various engineering and architectural fields. A lot of problem solving and critical thinking skills are required to complete the projects. The students will be involved in both “individual” and “team” design activities throughout this course. They will also create real plastic prototypes of their designs on our 3D printer. This brings their projects to life and allows the students to see if their designs are truly realistic and functional.

(FREE COLLEGE CREDIT)

PREREQUISITE: DFT 122

ELECTRICITY

5817 ENGT 110/111 CIRCUITS I/LAB (year long course)

Introduction to basic theory of DC and AC circuits, including circuit analysis techniques, introductory magnetism, and transformer principles.

5822 ENGT 114/115 Circuits II (year long course)

Complex alternating current and direct current circuits. Emphasis is on impedance, reactance, power and electrical energy, electrical measurement instruments, and circuit analysis

PREREQUISITE: ENGT 110/111



5822 EET 154/155 Electrical Construction I/LAB (year long course)

Involves the study of materials and procedures used in construction wiring
CO-REQUISITE: ENGT 110

5823 EET 252/253 Electrical Construction II / Lab (year long course)

Expands the knowledge and skills needed to work in commercial and industrial construction wiring
PREREQUISITE: EET 154/155

5874 EFT 270/271 Motor Controls I/LAB (year long course)

This course addresses the diversity of control devices and applications used in industry today. Safety and electrical lockouts are also included
PREREQUISITE: ENGT 110/111

5824 EFT 264/265 Rotating Machinery (year long course)

Focuses on the underlying principles of rotating electrical equipment including DC and AC motors and generating equipment construction, operating applications, and the maintenance of DC and AC motors and generating equipment.
PREREQUISITE: ENGT 110/111

HEALTH

5827 MNA 100 Medicaid Nurse Aide (2 credits) (year long course)

Specific knowledge and skills for students and/or nurse aides to assume the role and responsibility required in long-term care is communicated to the student through lectures, lab, and clinical practice. The focus of the course is communication, infection control, safety, residents' rights, and basic nursing skills.
PREREQUISITE: Principles of Health preferred

5314 HEA 102 PRINCIPLES OF HEALTH (year long course)

This course is an orientation to the Health Care Industry. It is designed to develop and enhance an understanding of the roles and responsibilities of each career major area. Upon successful completion of this course, the student will be able to focus on a career major path and make informed decisions regarding choices for continuing education and/or employment. This course addresses the Kentucky Learner Goals and Academic Expectations, Core Content for Assessment, and includes core components from the National Health Care Skill Standards

6356 AHS 120 Medical Terminology (semester long course)

An overview designed of the basic techniques of medical word building is provided. Once these techniques have been developed, they can readily be applied to acquire an extensive medical vocabulary. Emphasis is on basic anatomical, physiological, pathology, diagnostic procedures, and pharmacological terms.

5303 CPR 100 / SAF 100 Emergency Procedures. (semester long course)

Emergency Procedures is designed to teach cardiopulmonary resuscitation (Adult/Infant/Child) using current emergency techniques relative to cardiac and/or respiratory arrest, as put forth by the American Heart Association, National Safety Council or American Red Cross. The American Heart Association, National Safety Council or American Red Cross standardized course qualifies a student for certification of cardiopulmonary resuscitation and safety and first aid. Safety and First Aid is a course designed to teach current strategies relative to designated emergency situations as put forth by the National Safety Council or American Red Cross. The National Safety Council or American Red Cross standardized course qualifies a student for certification in safety and first aid.

WELDING

5832 WLD 110/111 Cutting Processes (year long course)

A working knowledge of various cutting processes used by the welding industry. Will include, but is not limited to, safety, theory of operation, setup and operating techniques, troubleshooting, and making minor equipment repairs, terms and definitions, identification, evaluation, repair and prevention of discontinuities of cut surfaces. Includes oxy-fuel cutting, plasma arc cutting, exothermic cutting, air carbon arc cutting, shielded metal arc cutting, and mechanical cutting process.

5900 WLD 120/121 Shielded Metal Arch Welding (year long course)

Teaches students the identification, inspection, and maintenance of SMAW electrodes; principles of SMAW; the effects of variables on the SMAW process to weld plate and pipe; and metallurgy

5835 WLD 225 SMAW Groove Welds with Backing (year long course)

Designed to build upon SMAW Plate Lab I and II. Offers the student the opportunity to advance skills in the practical aspects of vee-butt plate welding using SMAW
PREREQUISITE: WLD 120/121

5836 WLD 140/141 Gas Metal Arc Welding (year long course)

Identification, inspection, and maintenance of GMAW machines; identification, selection and storage of GMAW electrodes; principles of GMAW; and the effects of variables on the GMAW process. Theory and applications of related processes such as FCAW and SAW and metallurgy are also included.

5837 WEL 143 GMAW Groove (year long course)

Teaches the method of operation and application of the Gas Metal Arc Welding process for welding groove welds in both ferrous and non-ferrous plate in all positions using both short circuiting and spray transfer where appropriate
PREREQUISITE: WLD 140/141



5838 WEL 130/131 Gas Tungsten Arc (year long course)

Identification, inspection, and maintenance of GTAW machines; identification, selection and storage of GTAW electrodes; principles of GTAW; the effects of variables on the GTAW process; and metallurgy. This course also teaches the theory and application of Plasma Arc Cutting

5839 WLD 220 WELDING CERTIFICATION (year long course)

Provides the student with a working knowledge of certification encountered in welding. The student will start with developing a WPS, qualify the WPS, and qualify personnel. Documents used in welding certification are developed and used.

Lincoln County Area Technology Center Career Pathways Offered Valid Course Codes in () after Course

Other courses offered in the program area will count toward electives to get the student to completer status.

Health Sciences

- Medical Administrative Assisting—CIP 51.0710.00
 - Principles of Health Science(170111)
 - Emergency Procedures and Medical Terminology(170141 and 170131)
 - Medical Office Procedures(170920)
 - Internship(170922)
- Pre Nursing—CIP 51.2699.01
 - Principles of Health Science (170111)
 - Emergency Procedures and Medical Terminology(170141 and 170131)
 - Medicaid Nurse Aide (170631)

Information Technology

- Web Development and Administration—CIP 11.0801.01
 - Computer Literacy OR Digital Literacy (110110 or 060112)
 - Web Page Development (110801)
 - Web Site Design and Production (110804)
- Information Support and Services—CIP 47.0104.01
 - Computer Literacy OR Digital Literacy (110110 or 060112)
 - Computer Hardware and Software Maintenance (110101)
 - Help Desk Operations (110102)
 - Management of Support Services (110302)[previously Help DeskII]
- Network Administration “MCSA”—CIP 11.1001.00
 - Computer Literacy OR Digital Literacy (110110 or 060112)
 - Computer Hardware and Software Maintenance (110101)
 - Introduction to Networking Concepts (110901)
 - MS Client/Server Configuration (110913)

Computerized Manufacturing and Machining

- Machinist Operator—CIP 48.0503.02
 - Fundamentals of Machine Tools A (470913)
 - Fundamentals of Machine Tools B (470914)
 - Applied Machining I (470911)
 - Manual Programming (470915)
 - Introduction to Computer Aided Drafting (480110)
- Computer Numerical Control (CNC) Operator—CIP 48.0503.04
 - Fundamentals of Machine Tools A (470913)
 - Fundamentals of Machine Tools B (470914)
 - Manual Programming (470915)
 - CAD/CAM/CNC (470925)
- Computerized Manufacturing and Machining Manufacturing TRACK—CIP 48.0500.99
 - Fundamentals of Machine Tools A (470913)
 - Fundamentals of Machine Tools B (470914)
 - Manual Programming (470915)
 - CAD/CAM/CNC (470925)
 - Co-op (470929)



Industrial Maintenance Technology

- Maintenance Mechanic—CIP 47.0303.01
 - Fluid Power (470321)
 - Industrial Maintenance Electrical Principles (470322)
 - Maintaining Industrial Equipment (470318) jr and sr prep students
 - Shop Management and Basic Troubleshooting (470301 and 470317)
- Electrical Technician—CIP 47.0303.02
 - Industrial Maintenance Electrical Principles (470322)
 - Industrial Maintenance Electrical Motor Controls (470348)
 - Industrial Maintenance of PLC (470330)
 - Shop Management and Basic Troubleshooting (470301 and 470317)
 - Introduction to Engineering Design (219901) PLTW ****We do not teach but do count**

Wood Manufacturing Technology

- Automated Wood Processor—CIP 48.0703.01
 - Introduction to Computer Aided Drafting (480110)
 - Wood Product Manufacturing (480740)
 - Introduction to Panel Processing (480711)
 - Advanced Wood Processing
- Cabinetmaker—CIP 48.0703.02
 - Technical Drawing and Blueprint Reading AND Wood Finishing (480719 and 480720)
 - Wood Product Manufacturing (480740)
 - Cabinet Making Technology (480731)
 - Advanced Wood Processing (480733)
 - Introduction to Computer Aided Drafting (480110)
- Wood CNC Operator/Programmer—CIP 48.0703.05
 - Technical Drawing and Blueprint Reading AND Wood Finishing (480719 and 480720)
 - Introduction to Computer Aided Drafting (480110)
 - Advanced Wood Processing (480733)
 - Wood Product Manufacturing (480740)

Hybrid Pathways We Can Add

- Computerized Manufacturing and Machining Engineering—CIP 15.1304.00
 - Introduction to Engineering Design (219901) PLTW ****We do not teach but do count**
 - Fundamentals of Machine Tools A (470913)
 - Fundamentals of Machine Tools B (470914)
 - Manual Programming (470915)
 - Computer Integrated Manufacturing (219904) PLTW ****We do not teach but do count**
- Electrical Engineering—CIP 14.4101.00
 - Introduction to Engineering Design (219901) PLTW ****We do not teach but do count**
 - Industrial Maintenance Electrical Principles (470322)
 - Industrial Maintenance Electrical Motor Controls (470348)
 - Industrial Maintenance of PLC (470330)
 - Digital Electronics (219903) PLTW ****We do not teach but do count**
- Fluid Power Engineering—CIP 15.1103.00
 - Introduction to Engineering Design (219901) PLTW ****We do not teach but do count**
 - Fluid Power (470321)
 - Advanced Hydraulic Systems (470316)
 - Principles of Engineering (219902) PLTW ****We do not teach but do count**
- Wood Manufacturing Engineering—CIP 03.0509.00
 - Introduction to Engineering Design (219901) PLTW ****We do not teach but do count**
 - Wood Product Manufacturing (480740)
 - Cabinet Making Technology (480731)
 - Computer Integrated Manufacturing (219904) PLTW ****We do not teach but do count**

