

**CORBIN HIGH SCHOOL**  
Minimum Requirements for Graduation

<u>Courses</u>	<u>Credits</u>
English	4
Math	4
Social Studies	3
Science	3
Health	½
Physical Education	½
Humanities	½
Performing Arts	½
Computer & Technology Applications	1
Electives	<u>9</u>
Total	26

**Pre-College Curriculum**

English 1, 2, 3, 4	Algebra1	Economics/Am. Gov.
Biology	Geometry	World Civilization
Chemistry or Physics	Algebra2	US History
Spanish 1	Spanish 2	

\*AP US History/AP Government can substitute for US History/Am. Government

**Academic Recognition at Graduation**

Distinguished with Highest Honors	4.5 gpa and above
Distinguished with High Honors	4.3 to 4.49 gpa
High Honors	4.0 to 4.29 gpa

### **State Mandated End of Span Exams**

All students will be required to take end of span exams after the completion of English I and English II for Reading and at the completion of 10<sup>th</sup> grade for Math. Students must pass exams in order to be eligible for graduation.

### **ACT College Readiness Benchmark Scores**

Test	ACT
<b>English</b>	18
<b>Math</b>	19
<b>Reading</b>	20
<b>Science</b>	24

All Kentucky high schools will be held accountable for helping students achieve the ACT benchmark scores as listed above.

### **Advanced Placement Program**

AP Government	AP Calculus
AP Biology	AP Statistics
AP Physics	AP Chemistry
AP Computer Science	

Advanced Placement is a program of college level courses and exams for high school students. Successful completion of course and examination earns the student both high school credit and college credit.

**TRIMESTER REQUIRED CURRICULUM FOR DIPLOMA**

<b>CREDIT</b>	
<b>GRADE 9</b>	<b>COURSE</b>
1 ½	ENGLISH I or HONORS ENGLISH I
1 ½	ALGEBRA I or HONORS ALGEBRA I
1	INTEGRATED SCIENCE or HONORS INTEGRATED SCIENCE
1	DIGITAL LITERACY
1	WORLD CIVILIZATION or HONORS WORLD CIVILIZATION
1 ½	ELECTIVES
<b>GRADE 10</b>	
1	ENGLISH II or HONORS ENGLISH II
1	GEOMETRY or HONORS GEOMETRY
1 ½ or 1	BIOLOGY or HONORS BIOLOGY
½	HEALTH or HEALTH & WELLNESS (ONLINE WITH UC)
½	PE (Lifetime Fitness) <b>OR</b> substitute: JROTC, REC SPORTS, STRENGTH & COND, SPORT.
½	POLITICAL SCIENCE
½	INTEGRATED SOCIAL STUDIES
2	ELECTIVES (2 credits of same FOREIGN LANGUAGE required for pre-college curriculum)
<b>GRADE 11</b>	
1 or 1 ½	ENGLISH III or HONORS ENGLISH III
1 ½	ALGEBRA II or HONORS ALGEBRA II
1	CHEMISTRY or HONORS CHEMISTRY
½	INTRO TO PHYSICS
1 or 1 ½	US HISTORY or Dual Credit HIST 231/232 US HISTORY
1	HUMANITIES AND PERFORMANCE CLASS <b>**OR</b> 2 cr. VISUAL ART <b>OR</b> 3 cr. CHOIR, BAND, or THEATRE or ART APPRECIATION OL or MUSIC APPRECIATION (UC)
1 ½	ELECTIVES
<b>GRADE 12</b>	
1 or 1 ½	ENGLISH IV or Dual Credit ENG 131/ENG 132
1	MATH CLASS REQUIRED
1	SCIENCE ELECTIVE RECOMMENDED
4 ½	ELECTIVES

## SAMPLE SCHEDULE

	Trimester 1 August-November	Trimester 2 November-February	Trimester 3 February-May
"0" Hour	Optional	Optional	Optional
1st	World Civ A	English I B	Algebra I C
2nd	Algebra I A	World Civ B	Integrated Sci B
3rd	Integrated Sci A	Algebra I B	Elective
4th	English I A	Digital Literacy	English I C
5th	Elective	Elective	Elective

## **HONORS Course Policy**

### **Math**

\*9-11 graders who are currently taking honors math will continue to take the accelerated classes. Any student who scores below a “C” in the current honors course will be recommended to drop back to the standard course the next school year. Also, if a teacher recommends that a student drops back because the student is having extreme difficulty with the pace, that will be noted on the students pre-registration form.

\*For incoming 8<sup>th</sup> graders, CHS will look at the following for placement in honors math courses: EXPLORE math scores, MAP scores, Exit exam, and teacher recommendations.

### **Social Studies**

\*Student must have grade of 3.0 or higher in 8<sup>th</sup> grade social studies and obtain a teacher recommendation to take Honors World Civilization.

\*Student must achieve a grade of 3.0 or higher in World Civilization and obtain a teacher recommendation to take AP Government.

\*Student must achieve a grade of 3.0 or higher in all high school social studies required courses—World Civilization, Political Science, Economics, or AP Government and have a teacher recommendation.

**NOTE:** Any exceptions to these criteria will be made on a case by case basis by the Social Studies Department Chair.

**Kentucky Educational Excellence Scholarship—Education Pays!**

Kentucky high school students have a great opportunity to make their education pay with the Kentucky Educational Excellence Scholarship (KEES)! KEES is administered by the Kentucky Higher Education Assistance Authority (KHEAA). Students who try to get the most from high school by studying hard and making good grades can earn scholarship for Kentucky colleges or technical schools. The better students do in high school, the more they will earn toward college scholarships. Students who continue to make good grades in college can retain their scholarships for up to five years.

Students will be eligible for scholarships based on their grade point average (GPA) for each year of high school (5 KEES courses per year required) and a bonus award based on their highest ACT score. Students must have an annual 2.5 or better GPA for the base amount of the scholarship. Scholarship amounts are listed below for GPA and ACT scores.

<u>GPA</u>	<u>Amount</u>	<u>ACT</u>	<u>Amount</u>
2.5	\$125	15	\$36
2.6	\$150	16	\$71
2.7	\$175	17	\$107
2.8	\$200	18	\$143
2.9	\$225	19	\$179
3.0	\$250	20	\$214
3.1	\$275	21	\$250
3.2	\$300	22	\$286
3.3	\$325	23	\$321
3.4	\$350	24	\$357
3.5	\$375	25	\$393
3.6	\$400	26	\$428
3.7	\$425	27	\$464
3.8	\$450	28 and up	\$500
3.9	\$475		
4.0	\$500		

Note that colleges look at the following criteria when accepting students and granting scholarships: Grade Point Average, ACT or SAT scores, Class Rank, Difficulty of Courses, Activities/Awards, and Recommendations. Some schools may also require essays and/or interviews. Make the most of your high school years. Education pays!!

## **CORBIN HIGH SCHOOL DUAL CREDIT PROGRAM**

### **PARTNERSHIP WITH THE UNIVERSITY OF THE CUMBERLAND'S**

#### **WHAT IS OFFERED?**

Corbin High School is partnering with the University of the Cumberland's to offer students an opportunity to earn college credit while fulfilling high school requirements at a cost ranging from \$50 to \$145 for 3 credit hours. For the 2019-2020 school year, students may choose from 9 on-line courses and 7 courses taught by Corbin High School instructors as part of students schedule.

On-line courses include:

- Political Science
- Psychology
- Sociology
- Criminal Justice
- World Civilization
- Art Appreciation
- Music Appreciation
- Health & Wellness

\*On-line courses are subject to change for the next academic year.

On site classes include:

- English 131
- English 132
- College Algebra
- College Pre-Calculus
- Chemistry for Everyday Life
- US History 231
- US History 232

Corbin High School instructors must have completed 18 hours of graduate work in their content specialty to be qualified to teach dual credit courses. Teachers must also consult with the University of the Cumberland's for course requirements and syllabus topics.

## WHO IS ELIGIBLE?

This program is open to sophomores, juniors and seniors who meet the criteria listed below.

Students taking courses offered by Corbin High School instructors must meet criteria listed below.

- GPA of 3.0 and above or Teacher recommendation
- If rising sophomores have not taken the test, they must register for next scheduled ACT.
- Students desiring to take College Algebra must have an 18 composite and score 20 or above in math on the ACT.
- Students desiring to take Pre-Calculus must have an 18 composite and score 23 or above in math on the ACT.
- Students desiring to take ENG 131 must meet CPE English benchmarks in English (18) and in Reading (20) and a composite of at least 18.

Students taking an on-line course must meet criteria listed below.

- GPA of 3.2 and above or Recommendation from Department that would correlate to the course being taken
- ACT composite of 18. If rising sophomores have not taken the test, they must register for and complete the ACT with required score prior to admission to the class.

## WHAT WILL THIS COST?

Online Courses will cost \$145 and will be billed directly from University of the Cumberland's. Students will be responsible for purchasing books for online courses.

Courses offered by Corbin High School Instructors cost \$50.

Students may apply for the Dual Credit Scholarship with KHEAA to pay for up to 6 college hours before graduation.

## WILL THE COLLEGE CREDIT TRANSFER?

After a check with the colleges and universities attended by Corbin graduates, credits earned through this program will transfer as credit earned. However, specific college programs may have different requirements based on the degree sought. Please, check with the college/university you plan to attend to verify transfer of college credits.

## HOW DO ON-LINE COURSES WORK?

Corbin High School provides students taking on-line courses an IPAD lab and a course facilitator. Students use the IPADS during class to do assigned readings, complete assignments, and communicate with a professor from the University of the Cumberland's. The classroom facilitator helps students with login issues and ensures students are attending to their on-line responsibilities. All work is graded by the university professor and credit is granted from the University of the Cumberland's.

## PARTNERSHIP WITH ECU

Students may also earn college credit while in high school through the ECU NOW! Program with Eastern Kentucky University. Each 3-hour class costs approximately \$160. If paying this fee would be a hardship, students may apply for the dual credit scholarship through KHEAA. These classes are taken on the ECU Corbin campus during the evening. Juniors and seniors must have a 3.0 gpa and 18 in English on the ACT on file with ECU at the time of application. Other ACT scores are required for specific courses. Please see ECU website for required scores. If accepted into ECU NOW, students will be responsible for the cost of books and class fees. Application deadline for fall semester is July 1 and spring semester is November 1. Students must complete an application for acceptance.

Students should register for the following course if interested in ECU Now! and see Michelle McDonald for application information. **Seniors can schedule ECU Now classes 1<sup>st</sup> or 5<sup>th</sup> blocks. Juniors will need to schedule classes after school hours.**

### **EKU Now**

**Grade Level: 11-12**

**Credit: 2 (one for each class)**

**Prerequisite: Minimum 3.0 GPA, ACT 21 (English 18, Math 19, Reading 20)**

\*\*For students interested in becoming teachers, CHS is also partnering with ECU to offer classes in Education on-site taught by a CHS instructors

### **SED 100—Introduction to Special Education—Offered every other year**

**Credit: 3 college hours**

### **CMS 100—Intro to Human Communication—Offered every other year**

**Credit: 3 college hours**

**EDF 203—Foundations of Education—Offered every other year**

**Credit: 3 college hours**

**Co-requisite: CED 100—10 hours of classroom observation**

**EDF 204—Emerging Instructional Technologies—Offered every other year**

**Credit: 3 college hours**

**ANOTHER OPTION FOR DUAL CREDIT—ATC COURSES**

The Corbin Area Technology Center partners with several colleges in the region to provide dual credit for students interested in Career and Technical fields of study. These courses are open to 9-12 grades. Students must apply and be accepted to the college or university offering the dual credit courses. The cost for each class will be approximately \$150. If paying this cost will be a hardship, students may apply for the Work Ready Scholarship on the KHEAA website. Pre-Engineering classes will be free. For the Kentucky Community and Technical College System (KCTCS) there is no minimum ACT requirement for admission. Eastern Kentucky University and the University of the Cumberland's require an ACT composite of 19 to take Law Enforcement classes. Students interested in these fields may choose from the courses listed below.

**HEALTH SCIENCE:** KCTCS, (Working with The University of the Cumberland's to establish dual credit, hopefully next year)

170111 HST 102 & 103 Principals of Health Science

170131 AHS 115 Medical Terminology

**ENGINEERING:** EKU, University of Kentucky is in the process for next year (Dual Credit)

219901 Intro to Engineering Design

219902 Principals of Engineering

219906 Engineering Design & Dev. Students in this pathway take this course their senior year, and upon passing the standardized final, earn 3 credits to replace EGR 101 and 102 at UK.

AVN 170 Unmanned Aerial Systems

**INDUSTRIAL MAINTENANCE:** KCTCS

470322 IMT 110 Industrial Maint. Electrical Principals

470330 Industrial Maint. PLC'S

470348 Industrial Maint. Elect. Motor Controls

**AUTOMOTIVE:** KCTCS

470507 ADX 150/151 Maint. & Lt. Repair - A

470509 AUT 160/161 Maint. & Lt. Repair - B

470511 AUT 110/111 Maint. & Lt. Repair - C

470513 ADX 120/121 Maint. & Lt. Repair - D

**WELDING:** KCTCS

480501 WLD 110 Cutting Processes  
499920 WLD 170 Basic Blueprint Reading

LAW ENFORCEMENT/CRIMINAL JUSTICE: ECU & UNIV. OF CUMBERLANDS

461037 CROL 233/COR 201 Correctional Systems  
461043 PLS220 Criminal Investigation  
461044 CROL 131/ CRJ 101 Intro. to Criminal Justice  
461045 PLS 103 Law Enforcement

## ***Corbin High School CTE Pathways***

- **Human Services**
  - Culinary/Food Services
  - Hospitality/Travel/Tourism and Recreation
  - Fundamentals of Teaching
  - Education (EKU)
  
- **Marketing**
  - Financial Services
  - Marketing
  
- **Project Lead the Way (PLTW)**
  - Biomedical Sciences
  
- **Business**
  - Administrative Support

- Accounting
- Management/Entrepreneurship
- **Area Technology Center**
  - Automotive Technology
  - Aerospace Engineering
  - Industrial/Mechanical Engineering
  - Welding Technology
  - Health Sciences
  - Electrical Construction
  - Emergency Medical Services
  - Pre-Nursing
  - Law Enforcement
- **JROTC**
- **Arts Pathways(not considered Career Ready)**
  - Instrumental Ensemble (Band)
  - Vocal Ensemble (Choir)
  - Theatre
  - Visual Arts
- **Communications**
  - Video Production and Cinematography

## **Business Pathways**

### **Accounting**

**Career Ready:** Accounting EOP exam

**Complete 2-3 credits from the  
List below:**

Digital Literacy  
Office Administration

Accounting I  
Accounting II

**Complete 1-2 credits from the  
List below:**

### **Administrative Support**

**Career Ready:** Admin Support EOP exam

**Compete 2-4 credits from the  
List below:**

Digital Literacy  
Office Administration

Accounting I **or** Financial  
Literacy

**Complete 1-2 credits from the  
List below:**

Financial Literacy  
Business Management  
Microsoft Office  
Business Principle  
Principles of Marketing

Business Law  
Business Economics  
Microsoft Office  
Principles of Marketing  
Business Management  
Medical Terminology  
Emergency Procedure  
Business Co-Op  
Business Principles

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be "Career Ready," a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be "College Ready" (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

## **Business Pathways**

### **Management/Entrepren**

**Career Ready:** Business Mgmt EOP exam

#### **Complete 2 credits from the List below:**

Business Principles or Principles Of Marketing  
Business Management  
Business Law  
Entrepreneurship

#### **Complete 2 credits from the List below:**

Digital Literacy

### **Financial Services**

**Career Ready:** Financial Services EOP exam

#### **Complete 2 credits from the List below:**

Principles of Marketing or Business Principles  
Financial Services

#### **Complete 2 credits from the List below:**

Business Economics  
Accounting I  
Financial Literacy

Entrepreneurship  
Accounting I  
Accounting II  
Financial Literacy  
Microsoft Office  
Digital Literacy

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be "Career Ready," a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be "College Ready" (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

## **Business Pathways**

### **Marketing**

**Career Ready:** Marketing EOP exam

#### **Complete 2 credits from the list below:**

Principles of Marketing  
Advanced Marketing

#### **Complete 2 credits from the list below:**

Entrepreneurship  
Travel/Tourism  
Sports & Event Marketing  
Digital Literacy  
Accounting I or Financial Literacy

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be "Career Ready," a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be "College Ready" (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

# Family & Consumer Science Pathways

**Note: Suggested 9-12 grade courses and electives may be taken in any order.**

## Culinary & Food Serv

Career Ready: Culinary EOP exam or ServSafe

### Complete 3 credits from the List below:

Food & Nutrition  
Culinary I  
Culinary II

### Complete 1 credit from the List below:

FACS Life Skills  
Adv Food & Nutrition

## Hospitality/Travel/Tour

Career Ready: Hospitality EOP exam

### Complete 3 credits from the List below:

Principles of Hospitality  
Adv Food & Nutrition  
Principles of Marketing  
Adv Marketing  
Travel/Tourism

### Complete 1 credit from the List below:

Food & Nutrition  
Entrepreneurship  
FACS Lifeskills

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be "Career Ready," a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be "College Ready" (ACT English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

# Family & Consumer Science Pathways

**Note: Suggested 9<sup>th</sup>-11<sup>th</sup> grade courses and electives may be taken in any order.**

## Fundamentals of Teaching

**Career Ready:** AAFCS-Pre-PAC

### Complete 3 credits from the

#### List below:

Early Lifespan Development  
Mid-Late Lifespan Development  
Principles of Teaching

### Complete 1 credit from the

#### List below:

FACS Life Skills

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be "Career Ready," a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be "College Ready" (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

## **Fine Arts Pathways**

**\*\*Not considered Career Ready\*\***

**\*\*Note: Suggested 10-12 grade courses and electives may be taken in any order.**

## **Instrumental Ensemble (Band) Pathway**

**\*\*Not considered Career Ready\*\***

Concert Band

Audition 101

Percussion Ensemble

Music Theory I

Music Theory II

Marching Band

Jazz Band

Symphonic Band

**\*\*Students are strongly encouraged to become members of TRI-M the Honor Society for music students.**

## **Vocal Ensemble (Choir) Pathway**

**\*\*Not considered Career Ready\*\***

Concert Choir  
Piano I/II  
Music Theory I  
Chamber Choir  
Audition 101

**\*\*Students are strongly encouraged to become members of TRI-M the Honor Society for music students.**

## **Visual Arts Pathway**

**\*\*Not considered Career Ready\*\***

Visual Art I A & B



Drawing/Painting  
3D-Art/Mixed Media Arts  
Computer Graphics

### **Other Elective**

Visual Art Independent Study

**\*\*Students are strongly encouraged to become members of the National Art Honor Society.**

## **Theatre**

**\*\*Not considered Career Ready\*\***

Introduction to Theatre  
Drama/Stagecraft Design  
Acting Performance  
Costume Design  
Makeup for Stage

**\*\*Up to 2 full credits can be earned if student is part of afterschool productions.**

**\*\*Students are strongly encouraged to become members of the International Thespian Society.**

## JROTC Pathway

**9<sup>th</sup> grade—JROTC I**  
**10<sup>th</sup> grade—JROTC II**  
**11<sup>th</sup> grade—JROTC III**  
**12<sup>th</sup> grade—JROTC IV**

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be “Career Ready,” a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be “College Ready” (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

# **PLTW Bio-Medical Sciences Pathway**

**Career Ready: Allied Health EOP exam**

**Principles of Bio-Medical Science**



**Human Body Systems**



**Medical Interventions**



**Bio-Medical Innovations**

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be "Career Ready," a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be "College Ready" (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

# **Industrial/Mechanical Engineering Pathway**

**Career Ready: Engineering EOP exam**

## **Complete 2 credits from the list below:**

Introduction to Engineering Design

Principles of Engineering

## **Complete 1-2 credits from the list below:**

Computer Integrated Manufacturing

Engineering Design and Development

Robotics Design Essentials and Systems

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be "Career Ready," a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be "College Ready" (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

# **Aerospace Engineering Pathway**

**Career Ready: Engineering EOP exam**

## **Complete 2 credits from the list below:**

Introduction to Engineering Design  
Principles of Engineering

## **Complete 1-2 credits from the list below:**

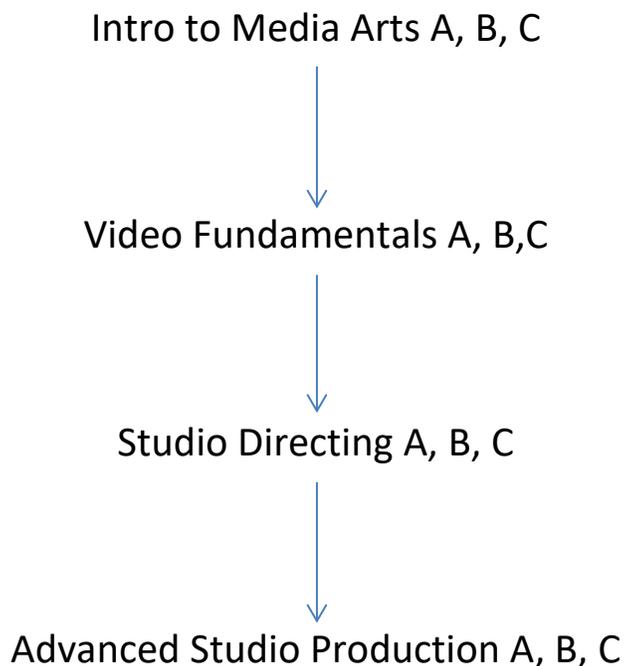
Digital Electronics  
Aerospace Engineering  
Engineering Design and Development  
Unmanned Aerial Systems

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be "Career Ready," a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be "College Ready" (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

# Video Production and Cinematography

NAF Academy Partner  
Career Ready: EOP exam

**Note: These courses must be taken in order.**



Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be “Career Ready,” a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be “College Ready” (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

# ATC Pathways—Automotive Technology

## Automobile Service Tech

Career Ready: Transportation EOP exam

Maintenance & Light Repair A w/ Lab



Maintenance & Light Repair B w/Lab



Maintenance & Light Repair C w/Lab



Maintenance & Light Repair D w/Lab



Automobile Service Technology A--D w/Lab

## Automotive Main & Light Repair Tech

Career Ready: Transportation EOP exam

Maintenance & Light Repair A w/ Lab



Maintenance & Light Repair B w/Lab



Maintenance & Light Repair C w/Lab



Maintenance & Light Repair D w/Lab

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be "Career Ready," a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be "College Ready" (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

# **ATC Pathways—Industrial Electrician Assistant**

**Career Ready: Construction/Manufacturing EOP exam**

## **Complete 4 credits from the list below:**

Electrical Construction I  
Circuits I  
Electrical Motor Controls  
Rotating Machinery Electrical Motor Controls  
Fluid Power  
Robotics

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be “Career Ready,” a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be “College Ready” (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

# **ATC Pathways—Skilled Trades Construction Electrical Track**

**Career Ready: Construction/Manufacturing EOP exam**

**Complete 4 credits from the list below:**

Electrical Construction I

Electrical Construction II

Circuits I

Circuits II **OR**

Electrical Motor Controls

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be “Career Ready,” a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be “College Ready” (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

## **ATC Pathways—Emergency Medical Technician**

**Career Ready: Allied Health EOP exam or EMT National Cert.**

### **Complete 4 credits from the list below:**

Principles of Health Science  
Emergency Procedures **and**  
Medical Terminology  
Emergency Medical Technician

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be "Career Ready," a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be "College Ready" (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

## **ATC Pre-Nursing**

**Career Ready: SRNA (State Registered Nurse Aid)**

### **Complete 3 credits from the list below:**

Principles of Health Science  
Emergency Procedures **and**  
Medical Terminology  
Medicaid Nurse Aide A, B, C, D

### **Complete 1 credit from the list below:**

Body Structures & Functions

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be "Career Ready," a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be "College Ready" (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

## **ATC Pathways—Welder—Entry Level**

**Career Ready: Manufacturing EOP exam**

**Note: Suggested 9<sup>th</sup> –12<sup>th</sup> grade courses and electives may be taken in any order.**

### **Complete 3 credits from the list below:**

Basic Blueprint Reading **and** Basic Welding A  
Oxy Fuel Systems **or** Cutting Processes  
SMAW

### **Complete 1 credit from the list below:**

Gas Metal Arc Welding  
GMAW Groove Lab  
SMAW Groove Welds  
SMAW Open Groove Lab  
GTAW

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be “Career Ready,” a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be “College Ready” (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

## **ATC Pathway—Law Enforcement** **Career Ready: Dispatcher Certification**

**Note: Suggested 9<sup>th</sup> –12<sup>th</sup> grade courses and electives may be taken in any order.**

### **Complete 3 credits from the list below:**

Introduction to Criminal Justice  
Law Enforcement  
Health and Well-Being for Law

### **Complete 1 credit from the list below:**

Criminal Investigations  
Correctional Systems

Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be “Career Ready,” a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be “College Ready” (ACT: English 18, Math 19, and Reading 20 or COMPASS: English 74, Math 36 and Reading 85).

# **Corbin High School Course Descriptions**

## **Language Arts**

### **English I A, B, and C**

**Grade Level: 9**

**Credit: ½ for each trimester**

In this year-long class, students will concentrate on developing skills in writing, analysis, literature, vocabulary, grammar, and oral language. The student's main focus during the course will be to erase weaknesses in grammar skills and to further develop those skills in thought-provoking essays and journal writings. In addition to developing writing skills, students will also read in a variety of fiction and non-fiction genres. It is expected that all students will make a serious, consistent commitment to acquiring those skills that bring about success both in the class and in life.

### **Honors English I A, B, and C**

**Grade Level: 9**

**Credit: ½ for each trimester**

This course will include the content of English I as well as an emphasis on the skills needed for entrance into Pre-AP English, AP English III and AP English IV. Students who take this class should expect to read additional works of literature and non-fiction passages as well as write more extensively and widely.

### **English II A & B**

**Grade Level: 10**

**Credit: 1**

**Prerequisite: English I**

This class is the first half of the Word Literature course required at the tenth grade level. Literature from a variety of genres will be studied from ancient Greece to the Elizabethan era. Effective writing in a variety of modes will be emphasized as well as increasing competence in reading and interpreting various genres of literature. Reading selections will include short stories and novels of the 19<sup>th</sup> and 20<sup>th</sup> centuries. This course will continue the development of grammar, vocabulary, and composition skills as well as techniques of argument and persuasion.

### **Honors English II A and B**

**Grade Level: 10**

**Credit: 1**

**Prerequisite: Pre-AP English I**

This course will include the content of English II as well as an emphasis on the skills needed for entrance into AP English III and AP English IV. Students who take this class should expect to read additional works of literature and non-fiction passages as well as write more extensively and widely.

**English III A & B****Grade Level: 11****Credit: ½****Prerequisite: English II**

This course will cover significant literature from the origins of American literature through the Civil War. Students will read and study a variety of genres including novels, short stories, poems, essays, speeches, and plays. In addition to an emphasis on reading, students will write in various forms and for a variety of audiences and purposes as well as continue to develop vocabulary and grammar skills. .

**Honors English III A & B****Grade Level: 11****Credit: ½ per trimester****Prerequisite: Honors English II A & B or English II A & B**

This course is designed to present a wide range of reading experiences with print and non-print materials that have literary, informational, persuasive, and practical purposes. The courses also require students to use the writing process and criteria for effective writing to demonstrate their abilities to write in a variety of forms and for multiple audiences and purposes. Students use writing-to-learn and writing-to-demonstrate-learning strategies to make sense of their reading and thinking experiences. Speaking, listening, and observing skills are used to communicate information for a variety of authentic purposes.

**English IV A & B****Grade Level: 12****Credit: ½****Prerequisite: English III**

This course will give students an overview of early British literature from the Anglo-Saxon era through the Elizabethan period. Students will read and study a variety of literary genres including poetry, plays, essays, and novels. Students will write for a wide variety of purposes and audiences including research-based composition. Reinforcement of grammar and vocabulary will continue. This course will give students an overview of British literature from the 18<sup>th</sup> century through the modern era.

**English 131/132 (Dual Credit) Year long course****Grade Level: 12****Credit: 1****Prerequisite: English III**

This course provides students with the opportunity to study basic principles of English composition in a dual credit, college-level class. These fundamentals help students develop their reading skills, expand their vocabularies, understand and evaluate the various organizational and rhetorical strategies used in expository writing, and practice these strategies in their own compositions. Students who take this course will receive three hours of college credit through the University of the Cumberland as long as they maintain a "C" average for the class. Only seniors may take this course. This class is open to anyone who meets the requirements for the course and is not limited to students who have taken pre-AP or AP courses.

### **English IV/English 095 (Parts A and B)**

**Grade Level: 12**

**Credit: ½ for each trimester**

**Prerequisite: English III**

English 095 is a transitional course designed to be taken in the senior year of high school. The transitional courses are for students who are 1-5 points **below** benchmark on their ACT. Students will take the KYOTE writing and reading exams, as well as the Compass test. Depending on the university, passing these tests will meet college readiness benchmarks. Successful completion of the course should allow students to enter college taking credit bearing courses instead of remedial courses.

Note: Students will be placed in this course based upon their ACT scores by the English Department. Students should enroll in English IV and they will then be placed in this class if they meet the criteria.

### **Creative Writing**

**Grade Level: 9-12**

**Credit: ½**

**Prerequisite: None**

Creative Writing emphasizes imaginative writing through the study and writing of longer fiction, one act plays, and poetry. Students have the opportunity to prepare manuscripts for magazine publication. Pegasus, a school literary magazine, is designed to publish student written works.

### **Contemporary Fiction**

**Grade Level: 9-12**

**Credit: ½**

**Prerequisite: None**

This course is intended to expose students to a variety of works by young adult contemporary authors. Students will study current themes dealing with adolescent issues.

### **Communications**

**Grade Level: 9-12**

**Credit: ½**

**Prerequisite: None**

Students taking this course will study various forms of today's communications with an emphasis on news gathering and reporting. Media literacy skills will be stressed as students study each form of media. This course includes basics of communication, press history, press law and ethics, advertising, defining news, reporting, writing, editing, photography, and layout and design. Communications is required for journalism staff membership.

### **The Bible as Literature**

**Grade Level: 9-12**

**Credit: ½**

**Prerequisite: None**

The classics of British and American literature are filled with biblical allusions. To enhance students' in depth analysis of literature, this course is a survey of the most influential stories and passages from the Bible. Students will use Bible selections to better understand its references to innumerable literary allusions, themes, and archetypes, as well as to understand its influence on art, music, literature, and culture.

### **Journalism A, B, C**

**Grade Level: 11-12**

**Credit: ½ each part**

**Prerequisite: Communications, teacher recommendation**

Students will study techniques used in producing print media. This class is predominantly a hands-on publishing business responsible for producing the school yearbook and newspaper. Students should be self-motivated and disciplined to stay on task. Students should sign up for all 3 sections (trimesters).

## **Science**

### **Honors Integrated Science A**

**Grade Level: 9**

**Credit: ½**

This is a physical science course that focuses on science skills as well as Earth Science. Students will learn about graphing, data, scientific method as well as the interior and exterior structure of the Earth. Other topics that will be taught include weather and climate, the solar system, and exploring the universe. This course will be taught at an accelerated pace as well as require additional projects and assignments.

### **Honors Integrated Science B**

**Grade Level: 9**

**Credit: ½**

This is a physical science course that focuses on an introduction to chemistry. There is an emphasis on bonding of elements, periodic trends, reaction of matter, and carbon chemistry. This course is in preparation for Biology so it concentrates on reactions and major macromolecules in the body and the reactions that are required for life. This course will be taught at an accelerated pace as well as require additional research, projects and a greater rigor of instruction.

### **Integrated Science A**

**Grade Level: 9**

**Credit: ½ each trimester**

**Prerequisite: None**

This is a physical science course that focuses on science skills as well as Earth Science. Students will learn about graphing, data, scientific method as well as the interior and exterior structure of the Earth. Other topics that will be taught include weather and climate, the solar system, and exploring the universe.

### **Integrated Science B(Not Required if student is taking Biomed pathway)**

**Grade Level: 9**

**Credit: ½ each trimester**

**Prerequisite: None**

This is a physical science course that focuses on an introduction to chemistry. There is an emphasis on bonding of elements, periodic trends, reaction of matter, and carbon chemistry. This course is in preparation for Biology so it concentrates on reactions and major macromolecules in the body and the reaction that are required for life.

### **Active Chemistry**

**Grade Level: 10-12**

**Credit: ½**

This is a chemistry course that focuses on the applied application of chemistry principles. Student in this course will learn chemical vocabulary and learn to apply the concepts they are learning through weekly labs. Students are required to keep a journal and document all findings as well as reflect upon each task.

### **Honors Biology A & B**

**Grade Level: 9 or 10**

**Credit: ½**

**Prerequisite: Integrated Science A and B**

Pre-AP Biology A is a laboratory science course that investigates the relationship between structure and function from molecules to organisms and systems, that interdependence and interaction of biotic and abiotic components of the environment, and mechanisms that maintain continuity and lead to changes in populations over time. This course emphasizes scientific method, cellular organization, environmental interaction, and energy transfer through photosynthesis, respiration, cell division, anatomical structures and their functions, human body, plants and genetics. Standards of inquiry and technology will be utilized to show biodiversity and change.

### **Biology A, B & C**

**Grade Level: 9 or 10**

**Credit: ½**

**Prerequisite: Integrated Science A & B**

Biology A is a laboratory science course that investigates the relationship between structure and function from molecules to organisms and systems, the interdependence and interactions of biotic and abiotic components of the environment, and mechanisms that maintain continuity and lead to changes in populations over time. This course emphasizes scientific method, cellular organization, environmental interactions, energy transfer through photosynthesis and respiration, anatomical structures and their functions, plants, animals and human body. Standards of inquiry and technology will be utilized to show biodiversity and change.

### **Chemistry A & B**

**Grade Level: 11**

**Credit: ½ for each trimester**

Chemistry is the science dealing with the structure and composition of substances, the changes in composition, and the mechanisms by which these changes occur. This course is organized in a logical, workable sequence. Description and theoretical topics are alternated to provide variety and a well correlated, intensive laboratory program. Students in Chemistry will learn fundamental chemistry concepts.

### **Honors Chemistry A & B**

**Grade Level: 10 or 11**

**Credit: ½ for each trimester**

**Prerequisite: Integrated Science A and B and Algebra II or currently enrolled in Algebra II**

Accelerated Chemistry is the science dealing with the structure and composition of substances, the changes in composition, and the mechanisms by which these changes occur. This course is organized in a logical, workable sequence. Description and theoretical topics are alternated to provide variety and a well correlated, intensive laboratory program. Students in Accelerated Chemistry will study advanced, in-depth chemistry concepts. These concepts will provide a

background for more advanced science courses at the secondary and post-secondary level. A strong math background is highly recommended.

### **Introduction to Physics**

**Grade Level: 9-12**

**Credits: ½**

Students develop a conceptual understanding of physics content through the use of scientific inquiry. They experience concepts such as motions and forces, conservation of energy and the increase in disorder, interactions of energy and matter. A scientific inquiry approach uses concrete hands-on experiences that require students to apply critical thinking skills.

### **Environmental Science**

**Grade Level: 9-12**

**Credit: ½**

**Prerequisite: None**

The environmental science class is designed to introduce basic environmental concepts. Students will meet in the outdoor classroom daily (any weather). They will also be asked to design and complete a hands-on project. They will also design and present lessons for the lower grades. Appropriate work attire is required for the outdoor classroom.

### **Forensics I**

**Grade Level: 9-12**

**Credit: ½**

**Prerequisite: None**

This course will introduce students into the field of forensic science. Students will learn about cutting-edge forensic science practices and procedures, such as DNA profiling, digital imaging, and crime scene reconstruction.

### **Anatomy & Physiology A, B**

**Grade Level: 11-12**

**Credit: ½ each part**

**Prerequisite: Biology A, B**

In Anatomy, students will master structure and how these structures move. Students will also master the major systems of the body. Topics to be covered include introduction to body systems, bone tissue, axial and appendicular skeleton, muscles, cardiovascular, respiratory system, nervous system, digestive system, and integumentary system.

This class uses a college textbook and will progress at a college type pace. Learning will be enhanced through lab, community visits and research, gross anatomy lab and projects.

### **AP Biology A, B, C**

**Grade Level: 11-12**

**Credit: ½ each part**

**Prerequisite: Biology A, B and Chemistry A, B (May currently be enrolled in Chemistry)**

This course offers students advanced level experience in the concepts of biology and laboratory techniques used by scientists. Major areas of study will include genetics, the human body, ecology, the environment, and plants. Fewer topics are addressed but greater detail is expected. Topics include introduction to biology themes, ecology, biochemistry, cell and cellular movement, cell reproduction, energy, genetics, evolution, microorganisms/taxonomy, zoology, and AP Test Prep. A college textbook and laboratory manual will be used in this course to prepare the students for the mandatory AP Biology

exam. College credit may be obtainable with a score of 3 or above on this mandatory advanced placement exam.

### **AP Physics A, B, C**

**Grade Level: 11-12**

**Credit: ½ each part**

**Prerequisite: Geometry Accelerated and Algebra II Accelerated**

This course emphasizes reasoning and problem solving through the application of fundamental physical laws. AP Physics is an algebra based physics course designed to prepare students for the AP Physics B exam. Topics to be covered will be science of matter and energy, Newton's Laws/Forces, work, energy, power and momentum, kinematics, fluid mechanics, heat and temperature, electric forces and fields, electrical energy and capacitance, thermodynamics, electric circuits, magnetism, atomic physics, waves, subatomic physics, and optics. A college textbook and laboratory manual will be used in this course to prepare the students for the mandatory AP Physics exam. College credit may be obtainable with a score of 3 or above on the mandatory AP exam.

### **AP Chemistry**

**Grade Level: 11-12**

**Credit: 1 ½**

AP Chemistry is the equivalent to a general Chemistry course usually taken in the first year of college. It is designed to comply with College Board recommendations to prepare students for an AP Exam in Chemistry. The course helps build students' understanding of the nature and reactivity of matter. The course begins with the structure of atoms, molecules, and ions; then students explore how that structure lets us predict and quantify the chemical reactions that substances undergo. AP Chemistry will enable you to develop an understanding of chemical concepts and become skilled at solving quantitative chemical problems through a combination of instructional activities. Suggested pre-requisites are Introduction to Chemistry and Algebra II.

### **Special Topics: Science**

**Grade Level: 9 or 10**

**Credit: ½ credit**

This course will allow students extra time to work on projects for Science Olympiad.

## **Social Studies**

### **World Civ A, B**

**Grade Level: 9**

**Credit: ½ for each trimester**

This survey course, taught in two 12-week components, explores world history from the 18<sup>th</sup> through the 21<sup>st</sup> centuries. Students will study major world civilizations, governments, wars, movements and how our globe is connected. Critical thinking skills like reading, writing, research and analysis will be stressed. This course is required in the 9<sup>th</sup> grade.

### **Honors World Civ A, B**

**Grade Level: 9**

**Credit: ½ for each trimester**

This advanced survey course, taught in two 12-week components, explores world history from the 18<sup>th</sup> through the 21<sup>st</sup> centuries. Students will study at an accelerated pace so they can explore topics in depth. Students will study major world civilizations, governments, wars, movements and how our globe is connected. Critical thinking skills like reading, writing, research and analysis will be stressed. This course is required in the 9<sup>th</sup> grade.

### **Political Science**

**Grade Level: 10**

**Credit: ½**

This 12-week course explores politics and government. Special attention is paid to the American Democratic system including the U.S. Constitution, the three branches of government and the legal system. Critical thinking skills like reading, writing, research and analysis will be stressed. This course is required in the 10<sup>th</sup> grade.

### **AP Government A, B**

**Grade Level: 10**

**Credit: ½ for each trimester**

This advanced course, taught in two 12-week components, is a more in-depth study of American Government and Politics than Political Science and is taught at the college level. Students will study the U.S. Constitution, three branches of government, the legal system, the political system and related topics in preparation for the AP Government exam. Students who pass the AP exam will receive three college credits at most colleges and universities. Critical thinking skills like reading, writing, research and analysis will be stressed. Students who take this class in the 10<sup>th</sup> grade do not have to take Political Science.

### **Integrated Social Studies**

**Grade Level: 10**

**Credit: ½**

This 12-week course will explore Geography and Economics in relation to social studies. The main emphasis will be U.S., although world topics will also be studied. Critical thinking skills like reading, writing, research and analysis will be stressed. This course is required in the 10<sup>th</sup> grade.

### **U. S. History A, B**

**Grade Level: 11**

**Credit: ½ for each trimester**

This survey course, taught in two 12-week components, explores American history from the 19<sup>th</sup> through the 21<sup>st</sup> centuries. Students will study major events, elections, wars, movements and how our country has changed since the Civil War. Critical thinking skills like reading, writing, research and analysis will be stressed. This course is required in the 11<sup>th</sup> grade.

### **HIST 231/232—US History Dual credit—year long course**

**Grade Level: 11**

**Credit: 1**

This advanced course, taught in three 12-week components, is a more in-depth study of American history from colonization through the 21<sup>st</sup> century. Students will take this class in one of two ways: as an AP course preparing for the exam at the end of the year, or as two dual credit classes in conjunction with the University of the Cumberlands. Those who pass the AP exam usually receive

six college credits at most colleges and universities. Those who pass the courses and exams in HIOL 231 and HIOL 232, will receive six hours credit from the University of the Cumberlands, which is transferrable to most colleges and universities. Critical thinking skills like reading, writing, research and analysis will be stressed. Students who take this course in the 11<sup>th</sup> grade do not have to take U.S. History A, B.

### **Great American Debates**

**Grade Level: 9-12**

**Credit: ½**

**Prerequisite: None**

This class is designed to teach students how to argue...effectively. Students will learn different forms of debate, how to research topics, apply and organize materials for effective usage. Students will also study famous historical debates.

### **Social Psychology**

**Grade Level: 9-12**

**Credit: ½**

**Prerequisite: None**

This course will examine contemporary topics in social psychology including attitudes, conformity, group dynamics, media effects, aggression, and social cognitive theories.

### **Kentucky Studies**

**Grade Level: 9-12**

**Credit: ½**

**Prerequisite: None**

This class will explore the history, geography, folklore, laws, health issues, traditions, and customs that are unique to our great state. Students will learn to appreciate and understand Kentucky's culture.

### **Law and Justice**

**Grade Level: 9-12**

**Credit: ½**

**Prerequisite: None**

This course includes case studies, mock trials, role-playing, small group exercises and analysis activities. The course is designed for students to resolve legal disputes and provide practical information, skills and knowledge to operate in today's legal system.

### **World Issues**

**Grade Level: 9-12**

**Credit: ½**

**Prerequisite: None**

World Issues is the study of persistent issues related to social, political, and economic facets of human behavior.

## **AP U.S. Government & Politics**

**Grade Level: 10-12**

**Credit: ½ each part**

**Pre-requisite: None**

This course is an intensive study of the formal and informal structures of government and the processes of the American political system, with an emphasis on policy-making and implementation. This course is designed to prepare students for the AP Exam. Sophomores who take this course are exempt from Political Science.

## **Intro to Film I**

**Grade level: 9-12**

**Credit: ½ credit each**

This course is designed to give you a basic understanding of the filmmaking process as well as a critical appreciation for films themselves. Students will develop the skills to recognize, analyze, describe and enjoy film as an art and entertainment form.

## **Film II**

**Grade Level: 9-12**

**Credit: ½ credit**

**Prerequisite: Intro to Film I**

This course is for students who have already taken and successfully passed Introduction to Film. It will be a more in depth look at film analysis, cinematic formal elements, genre, and narrative structure and is usually centered around a theme for the entire class.

## **History and Literature of the Biblical Era: Hebrew**

### **Scriptures and Old Testament**

**Grade Level: 9 - 12**

**Credits: ½ credit**

**Description:** The History and Literature of the Biblical Era: Hebrew Scriptures and the Old Testament course focuses on the historical impact and literary style from texts of the Old Testament era, including the Hebrew Scriptures. Topics may include historical background and events of the period, the customs and cultures of the peoples and societies, and the influence of the texts on law, history, government, literature, art, music, customs, morals, values, culture and events, including recent and current events.

## **History and Literature of the Biblical Era: New**

### **Testament**

**Grade Level: 9 - 12**

**Credits: ½ credit**

**Description:** The History and Literature of the Biblical Era: New Testament course focuses on the historical impact and literary style from texts of the New Testament era. Topics may include historical background and events of the period, the customs and cultures of the peoples and societies, and the influence of the texts on law, history, government, literature, art, music, customs, morals, values, culture and events, including recent and current events.

## **History and Literature of the Biblical Era: Hebrew**

### **Scriptures and the New Testament**

**Grade Level: 9 - 12**

**Credits: ½ credit**

**Description:** The History and Literature of the Biblical Era: Hebrew Scriptures and the New Testament course focuses on the historical impact and literary style from texts of the New Testament era, including the Hebrew Scriptures. Topics may include historical background and events of the period,

the customs and cultures of the peoples and societies, and the influence of the texts on law, history, government, literature, art, music, customs, morals, values, culture and events, including recent and current events.

## **Mathematics**

### **Algebra I A, B, C**

**Grade Level: 9**

**Credit: 1 ½**

This course is to provide the student an opportunity to have pre-algebra concepts reinforced before being introduced to Algebra I concepts. Strategies for solving non-routine problems are developed. Previously acquired skills are reinforced as well as extended. Topics include the real number system, number theory, algebraic expressions and sentences, inequalities, linear and absolute value equations, and graphing. Extensive problem solving, mathematical communications, reasoning, and mathematical connections are woven throughout the course. Appropriate use of scientific calculators is integrated into the course.

### **Honors Algebra I A, B, C**

**Grade Level: 9**

**Credit: 1 ½**

This course is faster paced and a more in-depth study of the concepts taught in pre-algebra. Students will be expected to perform at a much higher level. They should be proficient in their previously acquired math concepts and skills. Exploration and enrichment of math concepts and skills will be emphasized. It is imperative that the students have good study habits, maturity, and motivation necessary for success in this class.

### **Geometry A & B**

**Grade Level: 10**

**Credit: ½ for each trimester**

**Prerequisite: Algebra I**

This course focuses on discovery and realistic applications of geometric relationships and principles. Topics include constructions, inductive and deductive reasoning, points, lines, planes, angles, triangles, planar figures, similarity and congruence, circles, three-dimensional geometry, area, volume, coordinate geometry and transformations. Extensive problem solving, mathematical communication, reasoning, and mathematical connections are woven throughout the course. Appropriate use of scientific calculators, manipulative, and computers may be integrated throughout this course.

### **Honors Geometry A & B**

**Grade Level: 10**

**Credit: ½ for each trimester**

**Prerequisite: Accelerated Algebra I**

This course is a faster paced, more in-depth study of geometry. It includes geometric proofs requiring more advanced reasoning skills. This course is designed for students who have demonstrated a high level of understanding and are proficient in concepts and skills in Algebra I. It is also imperative that students have good study habits, maturity, and motivation necessary to be successful in this course. This course includes constructions, inductive and deductive reasoning, similarity and congruence, circles, three-dimensional geometry, area, volume, locus, coordinate

geometry, transformations, and enrichment topics/activities as appropriate. Extensive problem solving, mathematical communication, reasoning, and mathematical connections are woven throughout the course. Appropriate use of scientific calculators and computers may be integrated into this course.

### **Algebra II A, B & C**

**Grade Level: 11**

**Credit:  $\frac{1}{2}$  for each trimester**

**Prerequisites: Algebra I and Geometry**

Besides expanding the mathematical concepts of Algebra I, emphasis is placed on preparation for the study of higher mathematics/abstract thinking, the function concept, and the algebraic solution of problems in various content areas. Topics include the complex number system, matrices, quadratic equations and inequalities, graphs of functions and relations, exponential and logarithmic functions, the binomial theorem, linear programming, and introductory work on conic sections, probability and trigonometry. Extensive problem solving, mathematical communication, reasoning, and mathematical connections are woven throughout the course. Appropriate use of scientific calculators and computers may be integrated throughout the course.

### **Honors Algebra II A, B & C**

**Grade Level: 11**

**Credit:  $\frac{1}{2}$  for each trimester**

This course is designed for students who have demonstrated a high level of understanding and are proficient in concepts and skills of Algebra I. It is also imperative that students have good study habits, maturity, and the motivation necessary to be successful in this course. The course includes complex number systems, matrices, quadratic equations and inequalities, graphs of functions and relations, exponential and logarithmic functions, the binomial theorem, linear programming, and introductory work in conic sections, probability, trigonometry, and enrichment topics/activities as appropriate. Extensive problem solving, mathematical communication, reasoning, and mathematical connections are woven throughout the course. Appropriate use of scientific calculators (ideally those with graphing capabilities) and computers may be integrated throughout this course.

### **MATH 136. College Precalculus**

**Credit: 1**

This course is the study of equations and graphs, polynomial functions, composition of functions, rational functions, trigonometric functions, the solutions of right triangles, oblique triangles, trigonometric functions of multiple angles, and trigonometric identities and equations. Credit, 3 hours. Offered fall and spring semesters.

### **Advanced Topics in Mathematics A & B**

**Grade Level: 12**

**Credit :  $\frac{1}{2}$  for each trimester**

This course is designed to help students reach college readiness in mathematics. There are three levels; students are placed into the appropriate levels as determined by individual ACT math scores and/or KYOTE scores. This class will reinforce topics taught throughout a student's entire math career (Pre-algebra through Algebra 2) and expand into topics taught in College Algebra courses across the state. As a result of taking this class, students will have the opportunity to become college ready in mathematics by taking the Compass and the KYOTE tests.

**AP Statistics A, B & C****Grade Level: 11 or 12****Credit:  $\frac{1}{2}$  for each trimester**

AP Statistics is a course designed to introduce students to concepts and applications in four key areas: a) Exploring data, b) Planning a study, c) Probability, and d) Statistical inference. Students will learn to make connections between the areas of design, analysis, and drawing conclusions from statistics. In class, students will complete investigations in small groups, use technology to explore and analyze data, and participate in whole-class discussions of key statistical concepts. Outside of class, students will read the text and complete homework problems that build understanding of the subject. Students will develop good oral and written communication skills; they will use proper vocabulary and notation to interpret statistical results in context.

**AP Calculus AB/A, B & C****Grade Level: 11-12****Credit:  $\frac{1}{2}$  each part****Prerequisite: Trigonometry Pre-Calculus B**

This course is designed to prepare students for a college Calculus class and those who intend to take the AP Calculus exam. Topics to be covered are: limits, continuity, derivatives, and applications of derivatives, related rates, L'Hopital's Rule, definite integrals, differential equations, and review for the AP Calculus AB exam. Extensive problem solving, mathematical communication, mathematical connections and applications, and appropriate use of graphing calculators will be integrated throughout the course.

## **Dual Credit Course Offerings—Receive 1 full high school credit**

### **ENGL 131. English Composition I**

**Credit: 3 college hours**

This course provides students with the opportunity to study the basic principles of English composition. These fundamentals help students develop their reading skills, expand their vocabularies, understand and evaluate the various organizational and rhetorical strategies used in expository writing, and practice these strategies in their own writings.

### **ENGL 132. English Composition II**

**Credit: 3 college hours**

**Prerequisite: ENGL 131.**

English 132 students are encouraged to master further the reading and writing skills taught in English 131. This course emphasizes objective and critical thinking in response to various literary genres. Class activities and student writing will foster and demonstrate analytical, research, and documentation skills.

### **MATH 132. College Algebra**

**Credit: 3 college hours**

This is a study of exponents, radicals, polynomials, rational expressions, inequalities, relations and graphs, linear equations, quadratic equations, systems of equations, application problems, and complex numbers.

### **MATH 136. College Precalculus**

**Credit: 3 college hours**

This course is the study of equations and graphs, polynomial functions, composition of functions, rational functions, trigonometric functions, the solutions of right triangles, oblique triangles, trigonometric functions of multiple angles, and trigonometric identities and equations. Credit, 3 hours. Offered fall and spring semesters.

### **HIST 231. American History to 1877(AP US History)**

**Credit: 3 college hours**

A study of the origin and development of American society and institutions from the beginning of the colonial period through Reconstruction.

### **HIST 232. American History since 1877(AP US History)**

**Credit: 3 college hours**

A continuation of HIST 231, spanning the period from 1877 to the present.

### **CRJS 131. Introduction to Criminal Justice**

**Credit: 3 college hours**

This course provides a study of substantive criminal offenses in an effort to understand overall strategies for social well-being. Additionally the course reviews federal and state court systems, case law, and the impact of the Bill of Rights and later amendments to the United States Constitution.

**HIST 138. World Civilization since 1648**

**Credit: 3 college hours**

A continuation of HIST 137 from approximately 1648 to the modern times.

**POLS 131. Introduction to Political Science**

**Credit: 3 college hours**

A significant theme of this course is the development of what makes for good government and citizenship. Contemporary domestic and international issues facing citizens will be discussed. The study of political science as a discipline will be introduced with emphasis on its history, scope, method, and development as well as detailed study of major fields of political science.

**SOCI 131. Introduction to Sociology**

**Credit: 3 college hours**

This course offers a survey of basic concepts, theories, methods and research associated with the analysis of society and the scientific study of human social activity and human nature. Particular attention will be given to the discipline of sociology as it relates to the resolution of current social problems and well-being within a social context.

**MUSC 130. Music Appreciation**

**Credit: 3 college hours**

This course provides a study of music from various cultures and historical periods as it relates to society. A brief survey 133 of the elements of music is included in the introduction to the course.

**PSYC 131. Basic Psychology**

**Credit: 3 college hours**

The course emphasizes the etiologies of human behavior and pursues in depth study of motivation, emotion, the human senses, perception, personality, thinking, psychopathology, and measurement in psychology, as applied to physical and mental health. Required as a prerequisite to all courses for Psychology majors and minors; may be taken concurrently with PSYC 111.

**ART 131. Art Appreciation**

**Credit: 3 college hours**

The orientation of non-art majors to the visual arts through the architecture, painting and sculpture of selected periods in the history of art.

**ESS 236. Health/Wellness**

**Credit: 3 college hours**

This course is designed to provide information necessary for a holistic approach to health and wellness. Strategies include decision-making skills and promoting lifestyle choices for optimal health. Strong emphasis is placed on individual responsibility for personal health promotion. General Education Requirement. This course cannot be used as elective hours toward a Health major or minor.

**SED 100—Introduction to Special Education—Offered every other year**

**Credit: 3 college hours**

This course will overview of major categories of exceptionalities and the education, legal, and social issues in the area of disabilities and special education. Observation/participation through field experience required.

**CMS 100—Intro to Human Communication—Offered every other year**

**Credit: 3 college hours**

An introduction to the study of human communication. This class will overview of major topics in contemporary theories of intrapersonal, interpersonal, small group, and public communication. Practice in the development of skills in each of these areas is required.

**EDF 203—Foundations of Education—Offered every other year**

**Credit: 3 college hours**

**Co-requisite: CED 100—10 hours of classroom observation**

This course is an introduction to social and cultural influences on schools, the purposes of schooling, the governance, financing, and administration of schools, and the role of the individual as an educator.

**EDF 204—Emerging Instructional Technologies—Offered every other year**

**Credit: 3 college hours**

This class covers technological applications to education, training, and instruction within educational and human services settings. Students examine, develop, and/or evaluate emerging instructional technologies. This course is for individuals interested in exploring technological applications in teaching and learning.

**EKU Now**

**Grade Level: 11-12**

**Credit: 2 (one for each class)**

**Prerequisite: Minimum 3.0 GPA, ACT 21 (English 18, Math 19, Reading 20)**

Students may take two college classes throughout the year (one per semester) free of charge at the Corbin EKU campus, students are responsible for the cost of books and class fees. They must have a 3.0 GPA and an ACT composite of 21 (English 18, Mathematics 19, and Reading 20).

***ARTS & HUMANITIES***

**Visual Art I A, B**

**Grade Level: 9-12**

**Credit: ½ each part**

**Prerequisite: None**

This course is the prerequisite for all other visual art classes. This course introduces students to the fundamentals of creating visual art through the Elements and Principles of Design, and will prepare students for future visual art classes. Students will learn the basics in visual art processes—drawing, painting, printmaking, collage, ceramics, sculpture, etc.

**Drawing**

**Grade Level: 9-12**

**Credit: ½ credit for each**

**Prerequisite: Introduction to Visual Art A & B**

Prerequisite: Introduction to Visual Art This course focuses on continuing the development of observational skills and drawing techniques at a more advanced level. Students will explore a

wider variety of drawing media and subject matter. This course will emphasize a more personal approach to media, techniques, and thematic content through drawing.

### **Painting**

**Grade Level: 9-12**

**Credit: ½ credit for each**

**Prerequisite: Introduction to Visual Art A & B**

This course explores a variety of painting techniques and concepts. Students will learn how to utilize color theory in both realistic and abstract subjects. Traditional and nontraditional painting techniques and painting surfaces will be explored, while emphasizing artistic expression.

### **3D-Art**

**Grade Level: 9-12**

**Credit: ½ Credit**

**Prerequisite: Introduction to Visual Art A & B**

This course continues the development of creating art 3-dimensionally through ceramics and sculpture projects. Students will experience hand building clay, but also be introduced to the potter's wheel. Sculptures will be created using a variety of materials such as wire, styrofoam, plaster, etc. This course will emphasize personal artistic expression through 3-dimensional form.

### **Mixed Media Arts**

**Grade Level: 9-12**

**Credit: ½ credit**

**Prerequisite: Introduction to Visual Art A & B**

This course presents students with a wide variety of media exploration; which include numerous different printmaking processes, collage, jewelry-making, and textile arts.

### **Computer Graphics**

**Grade Level: 9-12**

**Credit: ½**

Photoshop and other software projects of image editing software; for photographers and anyone involved with producing art for print, multimedia, the web.

### **Concert Choir**

**Grade Level: 9-12**

**Credit: ½ each trimester**

**Prerequisite: Audition *or* teacher recommendation**

Students will sing a wide variety of music ranging from the classics to music of today. Students in Concert Choir will be required to participate in the Christmas Concert, Spring Concert, and Baccalaureate service, depending on when they are in Choir. Students in Concert Choir may also participate in several honors choirs.

### **Chamber/Show Choir**

**Grade Level: 9-12**

**Credit: ½ each trimester**

Students will sing a wide variety of music ranging from the classics to music of today. Students in Concert Choir will be required to participate in the Christmas Concert, Spring Concert, and Baccalaureate service, depending on when they are in Choir. Students in Concert Choir may also participate in several honors choirs.

**Piano I/II**

**Grade Level: 9-12**

**Credit: ½**

This course is designed for students that have never had piano lessons. Students will learn the basics of playing the piano and will be able to play simple melodies with choral accompaniment.

**History of Rock & Roll**

**Grade Level: 9-12**

**Credit: ½**

Students develop an understanding of music and its importance in relation to the human experience. Learning experiences include guided listening, analysis, discussion and hands-on experimentation “including informal performance, improvisation, or composition” focused on how various styles of music apply musical elements to create expressive or aesthetic impact. This course is very similar to course taught at Corbin Middle School.

**Symphonic Band**

**Grade Level: 9-12**

**Credit: ½ for each trimester**

Band/Instrumental Ensemble is a performance based class in which students advance themselves as both individual and ensemble musicians. Students will learn various strategies and techniques to assist them in their growth as instrumentalists. This class does require performances out of class as a grade, including but not limited to: football playoffs, basketball games (mostly 2<sup>nd</sup> semester), private lessons, concerts, parades, and concert band festival. There are also other music opportunities for students to enrich their musical development, including but not limited to: band clinics, solos and ensembles, marching band, jazz band, and percussion ensemble.

**Marching Band**

**Grade Level: 9-12**

**Credit: ½**

This course is NOT required to be a part of marching band. You must be a member of marching band to take the class - musician or color guard. This 12-week course will focus on the music and visual performance aspects of the current show.

**Audition 101**

**Grade Level: 9-12**

**Credit: ½**

Vocal and instrumental students will learn better rhythm and sight reading habits in addition to how to approach at home in their spare time. Students will also receive rehearsal time and small group/individual instruction on All-State music, All-Festival music, All Regional music, college audition pieces, etc.

**Jazz Band**

**Grade Level: 9-12**

**Credit: ½**

**Prerequisite: Know how to read music; teacher recommendation**

This course is a performance based class in which students learn how to play jazz music. There is a concert performance requirement.

### **Percussion Ensemble**

**Grade Level: 9-12**

**Credit: ½**

This 12 week course is open to anyone with basic rhythmic reading skills. Students will explore a variety of percussion instruments and prepare music for a concert.

### **Music Theory I**

**Grade Level: 9-12**

**Credit: ½**

This course is an introduction for music students (vocal and instrumental) to learn the foundations of music including key signatures, intervals, chords, time signatures, and harmonic analysis. \*MAPCA music requirement.

### **Music Theory II**

**Grade Level: 10-12**

**Credit: ½**

**Prerequisite: Music Theory I**

This course expands upon and further develops the skills students learn in Theory I. \*MAPCA music requirement.

### **Dance Techniques**

**Grade level: 9-12**

**Credit: ½**

Ballroom Dancing is a performance-based class in which students will learn various styles of ballroom dance. Students will also learn cultural and historical components of dances.

### **Introduction to Theatre**

**Grade Level: 9-12**

**Credit: ½**

Introduction to Theatre provides an overview of the art, conventions, and history of theatre. Although experiential exercises may be included, the courses focus on learning about drama/theatre rather than performance. Students study dramatic elements, elements of production and elements of performance. Students also study major developments in dramatic literature and/or major playwrights, the history and information of theatre as a cultural tradition, and critical appreciation of drama/theatre.

### **Drama/Stagecraft**

**Grade Level: 9-12**

**Credit:** ½

This course is intended to promote students' experience and skill development in one or more aspects of theatrical production. Initial courses are introductory in nature, while more advanced courses focus on improving technique, expand students' exposure to different types of theatrical techniques and traditions, and increasing their capacity to participate in public performances.

**Acting/Performance**

**Grade Level:** 9-12

**Credit:** ½

This course is intended to promote students' experience and skill development in one or more aspects of theatrical performance. Initial courses are introductory while advanced courses focus on improving performance skills, expanding exposure to different theatrical techniques, and increasing capacity to participate in public performances.

**Make up for Stage**

**Grade Level:** 9-12

**Credit:** ½

The Makeup for the Stage course is structured as lecture/demonstration and lab employing the principles of stage makeup, the variety of materials available and the application of these materials. The course is designed to help the student (both actor and makeup artist) build a working knowledge of broad based application procedures, materials and techniques, and the principles of characterization allowing for the development, planning, and execution of character makeup designs.

**Costume and Fashion Design**

**Grade Level:** 9-12

**Credit:** ½

In the Costume and Fashion Design course, students will be taught the technical and artistic skills with which to stimulate and develop their creative abilities in the creation of clothing illustrations. Students develop designs that emerge through a process of character analysis, based on the script and directorial concept. Period research, design, and rendering skills are fostered through practical exercises. Instruction in basic costume/fashion construction, including drafting and draping, provide tools for students to produce final projects.

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**Humanities**

**Grade Level:** 11-12

**Credit:** ½ credit

Students are introduced to a survey of significant works, artists, and movements that have shaped the arts world and have influenced or reflected various periods of history in the arts disciplines of dance, music, theatre and visual art. Course content emphasizes the sequential evolution of art forms, techniques, symbols, and themes within those disciplines. The course covers the connections of the arts to cultural, social, political, and historical events throughout the world. Critical analysis of works from the disciplines, as they communicate and express the history, needs, and ideals of society and individuals is included. The course provides for students to experience creating, performing/presenting/producing, responding and connecting their own works as well as the works of others.

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***CAREER/TECHNICAL***

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## **BUSINESS**

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### **Entrepreneurship**

**Grade Level: 9-12**

**Credit: 1**

**Prerequisite: None**

This is a middle level business class that will explore business practices in detail as it relates to planning, opening, and running a business of any kind. Students will explore different management styles as they relate to managing different types of businesses. This class will focus on all business structures from small sole proprietorships to large corporations.

### **Office Administration**

**Grade Level: 12**

**Credit: 1**

**Required for Business Co-op students**

This course is the organizational class for co-op students. It will also provide students with the advanced skills they need in Windows, Microsoft FrontPage, and Microsoft Office: Excel, Word, PowerPoint, Access, and Outlook.

### **Business Law**

**Grade Level: 9-12**

**Credit: 1**

**Prerequisite: None**

Business Law class will emphasize business and consumer applications as it relates to federal, state, and local laws. Distinction is made between civil and criminal law, and the influence of technology on the law. Students will examine the relationship of law and ethics, due process, contract law, court systems, and methods of dispute resolution. Examination of relevant cases and current issues in the law will be incorporated.

### **Accounting & Finance I**

**Grade Levels: 9-12**

**Credit: 1**

**Prerequisite: None**

This course is a head start on how to handle personal finances. It is an introduction to the financial language of business for sole proprietorships, partnerships, and personal use and will cover the accounting cycle for a service business. Topics will include: payroll records, taxes, dealing with merchandise, inventory records, determining revenue and expenses, and the understanding of fiscal periods based upon size and needs of business.

### **Accounting & Finance II**

**Grade Level: 9-12**

**Credit: 1**

**Prerequisite: Accounting & Finance I**

This course is for students planning a business career or for students wishing to expand their knowledge of accounting. Activities include hands-on experience with computerized accounting (Peachtree), guest speakers, and the possibility of job shadowing.

### **Financial Services I**

**Grade Level: 9-12**

**Credit: 1 per trimester**

This course defines basic banking terminology, develops communication skills, describes examples of credit used by consumers, business and government, and discusses relationships between retailers and financial services.

**Principles of Marketing****Grade Level:** 9 - 12**Credits:** 1

This course provides a basic foundation for further study in marketing. Students study economic functions at work in the marketplace, marketing functions including purchasing, pricing, and distribution functions. This course is based on the business and marketing core that includes communication skills, economics, financial analysis, and promotion. Both marketing and employment skills learned will improve and increase the chance of successful transition into the world of work

**Sports & Event Marketing****Grade Level:** 9-12**Credits:** 1

This course is designed to develop a thorough understanding of the marketing concepts and theories that apply to sports and events. This course is based on the business and marketing core that includes communication skills, distribution, marketing-information management, pricing, product/service management, promotion, selling, operations, strategic management, human resource management, and the economic impact and considerations involved in the sports and event marketing industries.

**Business Principles****Grade Level:** 9 - 12**Credits:** 1

This course establishes basic foundations for further study in business and marketing courses and provides essential information for making financial and economic decisions. Students learn about the fundamentals of the American free enterprise system and world economies; application of sound money management for personal and family finances; credit management; consumer rights and responsibilities; forms of business ownership; risk and insurance; and the importance of international trade

**Business Cooperative Work Experience****Grade Level:** 12**Credit:** ½ each trimester taken**Prerequisite:** Licensed driver, three business credits**Co-requisite:** Adv. Computer & Technology App.

Co-op provides students with the knowledge and skills to be successful in the workforce. Co-op students will be offered job opportunities in law offices, financial institutions, education, insurance, small/large private businesses, and medical offices. Students work during the school year to meet work requirements.

**Microsoft Office****Grade Level:** 9-12

**Credit: 1**

This course is an extension of Computer and Technology Applications or Advanced Computer Applications, students will have the opportunity to increase their computer skills. Advanced functions and integration of Microsoft Word, Excel, Access, and PowerPoint will be taught. Students will work toward MOS Certification in one or more of these Microsoft areas. In addition students will utilize Internet access to complete various projects.

**Financial Literacy****Grade Level: 9 - 12****Credits: 1**

This course is designed to provide students with the knowledge and skills to manage one's financial resources effectively for lifetime financial security. Topics include economics, money in the economy, budgeting, credit, consumer rights, investments and retirement planning. A correlation to the math content in the program of studies was used in developing this course to count as a 4th math elective. Leadership development will be provided through FBLA/DECA.

**Advanced Marketing****Grade Level: 9-12****Credit: 1****Pre-Requisite: Principles of Marketing**

This course is designed to enhance marketing skills developed in the marketing prerequisite courses and to learn advanced marketing skills in such areas as advertising, customer service, supervision, and employee/employer relations for a wide range of marketing careers. This course is based on the business and marketing core that includes communication skills, emotional intelligence, economics, marketing, operations, promotion, marketing-information management and financial analysis.

***FAMILY & CONSUMER SCIENCE***

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**Principles of Hospitality****Grade Level: 9-12****Credits 1****Prerequisite: None**

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.

**Culinary I****Grade Level: 9-12****Credit: 1****Prerequisite: None**

This course prepares students in career competencies in food production and service for a variety of commercial foods establishments such as schools, hospitals, nursing homes and restaurants. Orientation to the food service industry and development of food preparation skills are reinforced with shadowing and work experience during the latter part of the course. Leadership development will be

provided through the Family, Career and Community Leaders of America. Students enrolled in Commercial Foods I will operate Redhound Catering, a school based enterprise.

### **Culinary II**

**Grade Level: 10-12**

**Credit: 1**

**Prerequisite: Culinary I**

In this course students resume progress in pursuing competencies in food production and services. Food service management functions are introduced. More in-depth information is provided and higher levels of skills are taught. Time is provided for work experience in a variety of food service establishments. Leadership development will be provided through the Family, Career and Community Leaders of America. Students enrolled in Commercial Foods II will operate Redhound Catering, a school based enterprise.

### **Foods & Nutrition**

**Grade Level: 9-12**

**Credit: 1**

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.

### **Adv Foods & Nutrition**

**Grade Level: 11 or 12**

**Credits: 1**

This course is designed to assist students in principles related to food preparation. Specific content addressed will include planning, serving, food presentation, special diets, 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. Leadership development will be provided through the Family, Career and Community Leaders of America.

### **Life Skills**

**Grade Level: 9-12**

**Credits: 1**

Introductory Course; meal preparation and nutrition; home environment; child development; consumer education; family living; family health; careers; enabling skills and processes

### **Early Lifespan Development--Blackboard**

**Grade Level: 10-12**

**Credit: 1**

This course addresses the concepts related to understanding the areas 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.

### **Middle to Late Lifespan Development—Blackboard**

**Grade Level: 10-12**

**Credit: 1**

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 middle childhood, adolescent, and adulthood stages. Careers in child/human development are explored. Leadership development will be provided through the Family, Career and Community Leaders of America.

### **Principles of Teaching (Peer Tutoring)**

**Grade Level: 11-12**

**Credit: ½ per trimester up to 1.5 credits**

**Prerequisite: 2.5 GPA, licensed driver with own transportation, principal approval, no more than 2 unexcused absences in the prior term, willingness to accept assigned teacher and dress appropriately**

This course provides opportunities for students with an interest in teaching to develop skills, strategies, and techniques used for instruction at various grade levels. Students will gain work experience in classrooms with certified teachers as part of their course work. Grades will be based on daily activity logs, reflective papers, and teacher evaluation.

Responsibilities will increase each time a student takes Principles of Teaching including: additional reflective papers, teaching time in classroom, lesson plans, and teaching portfolio.

## **CINAMATOGRAPHY AND VIDEO PRODUCTION**

### **Introduction to Media Arts A, B, C**

**Grade Level: 9 - 11**

**Credits: 1 1/2**

**Description:** An introduction to and survey of the creative and conceptual aspects of designing media arts experiences and products, including techniques, genres and styles from various and combined mediums and forms, including moving image, sound, interactive, spatial and/or interactive design. Typical course topics include: aesthetic meaning, appreciation and analysis; composing, capturing, processing and programming of media arts products, experiences and communications; their transmission, distribution and marketing; as well as contextual, cultural, and historical aspects and considerations.

### **Video Studio Fundamentals A, B, C**

**Grade Level: 10 - 11**

**Credits: 1 1/2**

**Description:** This course will expose students to the materials, processes, and artistic techniques involved in creating video productions. Students learn about the operation of cameras, lighting techniques, camera angles, depth of field, composition, storyboarding, sound capture and editing techniques. Course topics may include production values and various forms/styles of video production (e.g., documentary, storytelling, news magazines, animation, etc.) As students advance they are encouraged to develop their own artistic styles. Major cinematographers, video artists and their work may be studied.

### **Studio Directing and Performance A, B, C**

**Grade Level:** 11 - 12

**Credits:** 1 1/2

**Description:** This course explores the role of managing the production of video studio projects. Students develop knowledge and skills in studio multi-camera and field television production. Students also develop performance skills for broadcasting including interpretation of copy, news casting, and ad lib announcing. The course covers techniques of narrative and non-fiction writing and scripting, the analysis and writing of radio, television, and video materials, including storytelling and screenwriting.

### **Advanced Studio Production - Moving Images A, B, C**

**Grade Level:** 11 - 12

**Credits:** 1 1/2

**Description:** Students will explore the creative and conceptual aspects of designing and producing moving images for the variety of cinematic, film/video and multimedia presentations including: fictional dramas, documentaries, music videos, artistic and experimental presentations and/or installations, interactive, immersive and performance media, etc. Typical course topics include: aesthetic meaning, appreciation and analysis of moving imagery; all processes of development including: pre-production planning and organization, production and post-production methods, tools and processes; moving image presentation, transmission, distribution and marketing; as well as contextual, cultural, and historical aspects and considerations.

## ***PHYSICAL EDUCATION***

### **Recreational Sports**

**Grade Level:** 10-12

**Credit:** ½

**Prerequisite:** None

This course is designed to allow students to learn and experience recreational activities. Topics covered include, but are not limited to basketball, volleyball, tennis, badminton, ultimate frisbee/football.

### **Lifetime Fitness**

**Grade Level:** 10

**Credit:** ½

**Prerequisite:** None

Lifetime Fitness involves the teaching of lifetime leisure sports, individual sports and team sports. Skills learned will be reinforced and advanced skills will be introduced.

### **Strength & Conditioning**

**Grade Level:** 9-12

**Credit:** ½

**Prerequisite:** None

This course is designed for students who want to increase athleticism. Activities are designed to improve strength and flexibility. Students should expect to work hard every day and be willing to push themselves to become their best. Class will also include learning basic physiology and energy systems training, as well as how to design individual programs.

## ***FOREIGN LANGUAGE***

### **Spanish I A & B**

**Grade Level: 9-12**

**Credits: 1**

**Prerequisite: 80% average in English**

This course is an introduction to the Spanish language and culture. It is designed to introduce students to basic vocabulary and grammatical functions necessary to read, write, speak, and develop listening skills in the target language. Furthermore, it provides students with an opportunity to learn about other cultures and customs.

### **Spanish II A & B**

**Grade Level: 10-12**

**Credits: ½**

**Prerequisite: Spanish I A & B**

The focus of this course is to provide students with the skills they need to create language for communication. This course section provides students with a review of previously studied material in order to smooth the transition into the second level of study. It is also designed to enhance an appreciation of the Hispanic culture.

### **Spanish III A & B**

**Grade Level: 11-12**

**Credits: 1**

**Description:** Prepares students to: perform interpersonal, interpretive and presentational communicative tasks within the intermediate low to intermediate mid range on the ACTFL Proficiency scale; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of other cultures. In addition, students develop insight into their own language and culture

### **French I A & B**

**Grade Level: 9-12**

**Credit: ½ each**

Prepares students to: perform interpersonal, interpretive and presentational communicative tasks within the novice range on the ACTFL Proficiency scale; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of francophone and other cultures. In addition, students develop insight into their own language and culture.

### **French II A & B**

**Grade Level: 9-12**

**Credit: ½ each**

Prepares students to: perform interpersonal, interpretive and presentational communicative tasks within the novice high to intermediate low range on the ACTFL Proficiency scale; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of

topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of francophone and other cultures. In addition, students develop insight into their own language and culture.

## ***MILITARY SCIENCE***

### **JROTC I**

**Grade Level: 9**

**Credit: ½**

**Prerequisite: None**

This course is designed to help students improve their communication skills, encourage citizenship through participation in community service activities, strengthen self-esteem, improve physical fitness, and to develop leadership abilities. There are opportunities to participate in after school activities such as Color Guard, Drill Team, and Raider Team. This course is taught by retired Army Officers and NCO's. It is an elective course and there is no obligation to go into the military.

### **JROTC II**

**Grade Level: 10-12**

**Credit: ½**

**Prerequisite: JROTC I**

This course allows students to build on the skills and abilities they learned in JROTC I. Leadership, physical fitness, community service, and personal responsibility will be the focus of this class. There are numerous opportunities for camping trips, hikes, community service and competitions with other schools. The High School Financial Planning Program will be used as part of a service learning project.

### **JROTC III/IV**

**Grade Level: 11-12**

**Credit: ½ each part**

**Prerequisite: JROTC I, II**

These courses continue to allow students to develop their leadership abilities by leading the students in JROTC I and II. These students will be placed in leadership and staff positions within the JROTC Program. The students will have responsibilities for different facets of the program and will be responsible for the planning and execution of all JROTC activities. These courses will prepare students for college or leadership positions in a work environment.

## **LAW ENFORCEMENT**

### **Introduction to Criminal Justice**

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** This course studies the history and philosophy of criminal justice, ethical considerations, definition of crime, the nature and impact of crime, an overview of the criminal justice system including law enforcement, corrections, and the court system.

### **Health and Well-Being for Law Enforcement**

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** This course is designed to give the student an overview of personal fitness and wellness including how to maintain good physical fitness and proper nutrition. The course will also give the student an overview of the warning signs of and how to deal with stress in the law enforcement profession.

### **Correctional Systems**

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** The function of custodial staff is examined with emphasis on the correctional officer. Institutional procedures are reviewed including reception, classification, program assignment and release procedures.

### **Special Topics – Law Enforcement**

**Grade Level:** 9 - 12

**Credits:** .5-1

**Description:** Instruction related to Public/Protective Services but not described in the above courses.

### **Criminal Investigations**

**Grade Level:** 9-12

**Credit:** ½

**Description:** This course includes investigative theory; collection and preservation of evidence, and sources of information; procedures for conducting interviews and interrogations; using forensic sciences; and preparing for cases and trials.

## ***PROJECT LEAD THE WAY (PLTW)--Engineering***

### **Project Lead the Way (PLTW) Course #1:**

#### **Introduction to Engineering Design (IED)**

**Grade Level:** 9-12

**Credit:** ½ each part

**Prerequisite:** None

**College credit:** Available

This course is appropriate for students interested in design and engineering. The major focus is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. It gives students the

opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB-learning challenges students to continually hone their interpersonal skills, creative abilities and understanding of the design process. Students will employ engineering and scientific concepts in the solution of engineering design problems. In addition, students use a state of the 3D solid modeling design software package to help them design solutions to solve proposed problems. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges that increase in difficulty throughout the course. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

**Project Lead the Way (PLTW) Course #2:**

**Principles of Engineering (POE)**

**Grade Level: 10-12**

**Credit: ½ each part**

**Prerequisite: CAD I A/B**

**College credit: Available**

The pre-engineering course will build on the drawing skills developed in Introduction to CAD. Students will learn intermediate software commands for representing materials and manufacturing processes. Each student will develop a complete set of mechanical construction drawings, including multi-view projections, sections and isometric representations. The Intermediate Computer Aided Drafting course is an APPB-learning course designed to introduce the student to intermediate level software features such as creating symbol libraries and symbol construction. The student will learn construction of assembly drawings through file manipulation and demonstrate advanced command structure. It allows the student to explore computer drafting in-depth and increase skill. The course continues development into 3D solid models and allows the student to create rendered 3D images.

**Project Lead the Way (PLTW) Course #3:**

**Digital Electronics (DE) A, B**

**Grade Level: 11-12**

**Credit: ½ each part**

**Prerequisite: Algebra I**

**Digital Electronics** teaches applied logic through work with electronic circuitry, which students also construct and test for functionality. Digital Electronics is a core course of study in the PLTW program. The purpose of this introductory pre-engineering course is to develop a student's logical thinking skills by solving problems and designing control systems. In this manner students will gain a better understanding of the digital circuits in microelectronic design, manufacturing, computer technology, and information systems.

**Project Lead the Way (PLTW) Course #4:**

**Engineering Design & Development (EDD) A, B**

**Grade Level: 12**

**Credit: ½ each part**

**Prerequisite: IED, POE, DE**

**College credit: Available**

This course is an in-depth study of parametric modeling using a CAD workstation and associated software. The student will develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Emphasis will be on designing or re-designing a real life project utilizing all of the skills developed in previous courses in creating a complete set of

manufacturing drawings of their design project. Research required for patents, marketability, manufacture, cost will all be conducted by the student to determine project validity. Students would take this course their senior year, and upon passing the standardized final, earn 3 credits to replace EGR 101 and 102 at the University of Kentucky.

### **Aerospace Engineering A,B**

**Grade Level: 11-12**

**Credit: 1**

This course will introduce students to aerospace information systems, star sailing or astronautics rocketry, propulsion, and the physics of space science, space life sciences (BioSpace) that includes looking at habitat and crew systems with life support, and the biology of space science, principles of aeronautics, structures and materials, and systems engineering.

### **Robotic Design Essentials**

**Grade Level: 9-12**

**Credit: ½ credit**

This course provides students with content and skills essential to the design and operation of robotic systems. Students activities will include artificial intelligence specialized sensors, electronic applications, engineering technologies, environmental physics, manufacturing, topographical considerations, programming, motions physics, electric motors, communications, simulations, simulation and modeling, and critical thinking skills.

### **Integrated Manufacturing Systems A & B**

**Grade Level: 10-12**

**Credit: 1 credit**

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.

### **Unmanned Aerial Systems**

**Credit: ½ credit**

**Pre-requisite: Aerospace Engineering**

The fundamental concepts and approaches of aerospace engineering are highlighted through lectures on aeronautics, astronautics, and design. This is a project based course where students will design, build and test projects such as lighter than air(LTA) vehicle or various wing designs. The connections between theory and practice are realized in the design exercises.

## ***Project Lead the Way—Biomedical Sciences***

**Project Lead the Way (PLTW) Biomedical Course 1:**  
**Principles of the Biomedical Sciences (PBS) A, B**

**Grade Level: 9-12**

**Credit: ½ each part**

**Prerequisite: None**

This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses. Student work involves the study of human medicine, research processes, and introduction to bioinformatics, and the use of computer science, mathematics, and information theory to model and analyze biological systems. Students investigate the human body systems and various health conditions and learn key biological concepts. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. Engineering principles including the design process, feedback loops and the relationship of structure to function are incorporated.

**Project Lead the Way (PLTW) Biomedical Course 2:**  
**Human Body Systems (HBS) A, B**

**Grade Level: 10-12**

**Credit: ½ each part**

**Prerequisite: Principles of the Biomedical Sciences**

Students engage in the study of the processes, structures, and interactions of the human body systems. Important concepts in the course include: communication, transport of substances, locomotion, metabolic processes, defense, and protection. The central theme is how the body systems work together to maintain homeostasis and good health. The systems are studied as "parts of a whole," working together to keep the amazing human machine functioning at an optimal level. Students design experiments, investigate the structures and functions of body systems, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation. Students work through interesting real-world cases and plan the role of biomedical professionals to solve medical mysteries.

**Project Lead the Way (PLTW) Biomedical Course 3:**  
**Medical Interventions (MI) A, B**

**Grade Level: 10-12**

**Credit: ½ each trimester**

**Prerequisite: Human Body Systems**

Student projects will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students will study the design and development of various medical interventions including vascular stents, cochlear implants, and prosthetic limbs. They will review the history of organ transplants and gene therapy, and read current scientific literature to be aware of cutting edge developments.

**Project Lead the Way (PLTW) Biomedical Course 4:**  
**Biomedical Innovations (BI) A, B**

**Grade Level: 10-12**

**Credit: ½ each trimester**

**Prerequisite: Medical Interventions**

This capstone course gives student teams the opportunity to work with a mentor, identify a science research topic, conduct research, write a scientific paper, and defend team conclusions and recommendations to a panel of outside reviewers.

## ***CORBIN TECHNICAL SCHOOL***

\* Corbin Area Technical School electives are available to students 15 years of age and older, grades 9-12.

### ***AUTOMOTIVE TECHNOLOGY***

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**Automotive consists of the three tiers below. The first tier has to be completed (four courses) before moving to the next tier. The first and second tier has part A, B, C, & D. These parts or classes may be done in any order as long as each tier is completed before starting the next one.**

#### **Automotive Maintenance and Light Repair (four courses) A, B, C, & D**

**Credit: ½ for each trimester**

These courses introduce the student to the principles, theories, and concepts of Automotive Technology and include instruction in the maintenance and light repair of Engines, Brake Systems, Electrical/Electronic Systems, Suspension and Steering Systems, Automatic and Manual Transmission/Transaxles, and Engine Performance Systems. In all areas, appropriate theory, safety, and support instruction will be taught and required for performing each task, including proper care and cleaning of customers vehicles. The instruction will also include identification and use of appropriate tools and testing/measurement equipment required to accomplish certain tasks. The student will also receive the necessary training to locate and use current reference and training materials from accepted industry publications and resources, and demonstrate the ability to write work orders.

#### **Automobile Service Technology (four courses) A, B, C, & D**

**Credit: ½ for each trimester**

These courses present the theory, component identification, operation, diagnosis, and the service and repair of Engines, Brake Systems, Electrical/Electronic Systems, Suspension and Steering Systems, Automatic and manual Transmission/Transaxles and Engine Performance Systems. In all areas, appropriate theory, safety, and support instruction will be taught and required for performing each task. The instruction will also include identification and use of appropriate tools and testing/measurement equipment required to accomplish certain tasks. The student will also locate and use current reference and training materials from accepted industry publications and resources, and write industry standard work orders.

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## **Electrical Technology**

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### **Intro. to Technology**

**Grade Level:** 9

**Credits:** .5

**Description:** 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. Students will sample engineering, electricity, automotive and welding areas.

### **Electrical Construction I**

**Grade Level:** 10 - 12

**Credits:** 1

Involves the study of materials and procedures used in construction wiring.

### **Electrical Construction II**

**Grade Level:** 10 - 12

**Credits:** 1

Expands the knowledge and skills needed to work in commercial and industrial construction wiring.

### **Circuits I**

**Grade Level:** 10 - 12

**Credits:** 1.5

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

### **Circuits II**

**Grade Level:** 10 - 12

**Credits:** 1.5

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

### **Electrical Motor Controls**

**Grade Level:** 10-12

**Credit:** 1 credit

This course addresses the diversity of control devices and applications used in industry today. Safety and electrical lockouts are also included.

### **Rotating Machinery Electrical Motor Controls**

**Grade Level:** 10-12

**Credit:** 1 credit

This course focuses on the construction, operation and maintenance of DC motors and generators and AC motors and alternators. This course addresses the diversity of control devices and applications used in industry today. Safety and electrical lockouts are also included.

### **Fluid Power**

**Grade Level:** 10-12

**Credit: 1 credit**

This course is a study of fluid power theory, component identification and application, schematic reading, and basic calculations related to pneumatic and hydraulic systems and their operations.

**Robotics and Industrial Automation**

**Grade Level: 10-12**

**Credit: 1 credit**

**Pre-requisite: Motor Control Concepts**

This course provides an introduction to the theory of robots including terminology, components, and basic programming. It provides theory of serve and non-serve robots. Topics include robot types, controllers, manipulators, basic robotic programming, and fluid power systems. This class also provides the basic theory of flexible and computer-integration manufacturing and control systems.

***HEALTH SCIENCE***

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**Principles of Health Science A/B**

**Credit: ½ each part**

**Prerequisite: None**

This course is an orientation to the health care cluster consisting of four career majors: Nursing, Medicine, Dentistry, and Allied Health. Emphasis is placed on the roles and responsibilities of each career major area. Communication, study, and leadership skills will be emphasized as the student learns about the health care industry and career opportunities available.

**Body Structures and Functions A/B**

**Credit: ½ each part**

**Prerequisite: None**

Basic Anatomy & Physiology is designed to provide knowledge of the structure and function of the human body with an emphasis on normalcy and health care issues. Hands-on lab is utilized with study of models and creating models from clay.

**Emergency Procedures**

**Credit: ½**

**Prerequisite: None**

CPR teaches current American Heart Association techniques for cardiac arrest victims. First Aid is designed to teach lay rescuer techniques using material from the American Heart Association or American Association of Orthopedic Surgeons. Students have the option of certification in American Heart Association CPR and/or First Aid.

**Medical Terminology**

**Credit: ½**

**Prerequisite: None**

An overview design 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.

**Leadership Dynamics in Health Science**

**Grade: 9-12**

**Credit: ½**

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

**Medicaid Nurse Aide**

**Grade Level: 12**

**Credits: 2**

This course is an instructional program that prepares individuals to perform routine nursing-related services to patients in hospitals or long-term care facilities, under the training and supervision of an approved registered nurse or licensed practical nurse. State registry is available upon successful completion of state written and performance examination.

**Emergency Medical Technician**

**Grade Level: 12**

**Credit: 3; 150 seat hours required (Students must schedule 1<sup>st</sup> & 2<sup>nd</sup> blocks all three trimesters.)**

**Prerequisite: 2.0 GPA, valid Driver's License, be 18 by graduation**

This basic Emergency Medical Technician course covers all knowledge aspects of trauma care as outlined by national standards, created by federal guidelines, and considered to be the responsibilities of ambulance operations. Training involves typical anatomy and physiology, patient assessment, care for respiratory and cardiac emergencies, control bleeding, applications of dressing and bandages, treatment for traumatic shock, care for fractures, dislocation, sprains and strains, medical emergencies, emergency childbirth, burns and heat emergencies, environmental emergencies, principles of vehicle rescue, transportation of patients and general operations of ambulance systems.

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***WELDING***

**Basic Welding A/B**

**Credit: ½ each part**

**Prerequisite: none**

This course introduces the student to the art and science of welding. Students learn to prepare the equipment and to perform basic welding operations.

**Cutting Processes & Lab**

**Credit: ½ each part**

**Prerequisite: None**

This course is a working knowledge of various cutting processes used by the welding industry. It will include, but is not limited to, safety, theory of operations, setup and operating techniques, troubleshooting, and making minor equipment repairs, terms and definitions, identification, evaluation,

repair and prevention of discontinuities of cut surfaces. It includes oxy-fuel cutting, plasma arc cutting, exothermic cutting, air carbon arc cutting, shielded metal arc cutting, and mechanical cutting process.

### **Oxy-Fuel Systems & Lab**

**Credit: ½ each part**

**Prerequisite: Previous welding class**

This course is designed to provide the student with a working knowledge of : oxy-fuel identification, set-up, inspection, and maintenance; consumable identification, selection and care; principles of operations; and effects of variables for manual and mechanical oxy-fuel cutting, welding, brazing principles and practice, and metallurgy. Shop safety and equipment use are also covered.

### **Welding Blueprints & Lab**

**Credit: ½ each part**

**Prerequisite: GMAW or GTAW**

This course provides a study of occupationally specific prints for welders. Advance study of multi-view drawings, assembly drawings, datum dimensions, numerical control drawings, sheet metal prints, castings and forgings, instrumentation and control charts and diagrams, working drawings, geometric dimensioning and tolerancing and use of reference materials and books are included. Occupational specifics including welding drawings, symbols, joint types, grooves, pipe welding symbols, testing symbols, and specification interpretations are stressed.

### **Shielded Metal Arc Welding (SMAW)**

**Credit: ½**

**Prerequisite: None**

This course is designed to teach students the identification, inspection, and maintenance of SMAW electrodes, principles of SMAW, and the effects of variables on the SMAW process to weld plate and pipe, and metallurgy. In addition, this course provides laboratory experiences in which the student acquires the manipulative skills to perform fillet welds in all positions.

### **Shielded Metal Arc Welding Fillet Lab**

**Credit: ½**

**Prerequisite: SMAW**

This course provides laboratory experiences in which the student acquires the manipulative skills to perform fillet welds in all positions.

### **Shielded Metal Arc Welding (SMAW) Groove Lab**

**Credit: ½**

**Prerequisite: Previous welding class/Cutting Processes**

This course provides experiences in which students acquire the manipulative skills to do groove welds in all positions with backing.

### **Gas Metal Arc Welding (GMAW) & Fillet Lab**

**Credit: ½ each part**

**Prerequisite: Previous welding class**

This course is designed to teach students the 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.

**Gas Metal Arc Welding (GMAW) Groove Lab**

**Credit:** ½

**Prerequisite:** GMAW Fillet Lab

The purpose of this course is to teach the method of operations 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.

**Gas Tungsten Arc Welding (GTAW) & Fillet Lab**

**Credit:** ½ each part

**Grade Level:** 11-12

**Prerequisite:** Previous welding class

This course is designed to teach students the identification, inspection, and maintenance of GTAW machines: identifications, 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.

**Welding Cooperative Education**

**Grade Level:** 12

**Credit:** varies

**Prerequisite:** Instructor approval

Co-op provides supervised on-the-job experience for the student's education objectives. Students participating in the co-op program receive compensation for their work.