

CORBIN HIGH SCHOOL

Minimum Requirements for Graduation

<u>Courses</u>	<u>Credits</u>
English	4
Math	4.5
Social Studies	3.5 or 4
Science	3
Health	½
Physical Education	½
Art Humanities	½
Music Humanities	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 course Exams

All students will be required to take end of course exams in specified courses which will count as 20% of their course grade. Specified courses to date for end of course exams are:

Biology English 2 Algebra 2 US History

ACT College Readiness Benchmark Scores

Test	EXPLORE	PLAN	ACT	COMPASS
English	13	15	18	74
Math	17	19	19	36
Reading	15	17	20	24
Science	20	21	24	x

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

Advanced Placement Program

AP English Language AP Government
AP US History AP Calculus
AP Biology AP Statistics
AP Physics

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

CREDIT	
GRADE 9	COURSE
1 ½	ENGLISH I or PRE-AP ENGLISH I
1 ½	ALGEBRA I or ALGEBRA I ACC
1	INTEGRATED SCIENCE or PRE-AP INTEGRATED SCIENCE
1	COMPUTER APPLICATIONS
½	BUSINESS MANAGEMENT
1	WORLD CIVILIZATION or WORLD CIVILIZATION ACC
1 ½	ELECTIVES
GRADE 10	
1	ENGLISH II or PRE-AP ENGLISH II
1	GEOMETRY or GEOMETRY ACC
1 ½ or 1	BIOLOGY or PRE-AP BIOLOGY
½	HEALTH
½	PE (Lifetime Fitness) OR substitute: JROTC, REC SPORTS, STRENGTH & COND,SPORT.
½	POLITICAL SCIENCE
½	INTEGRATED SOCIAL STUDIES/ECON
½	PATHWAY COURSE
1 ½	ELECTIVES (2 credits of same FOREIGN LANGUAGE required for pre-college curriculum)
GRADE 11	
1 or 1 ½	ENGLISH III or AP ENGLISH III
1 ½	ALGEBRA II or ALGEBRA II ACC
1	CHEMISTRY or CHEMISTRY ACC
½	INTRO TO PHYSICS
1 or 1 ½	US HISTORY or AP US HISTORY
1	HUMANITIES (ART & MUSIC) **OR 2 cr. VISUAL ART OR 3 cr. CHOIR, BAND, or THEATRE
1 ½	ELECTIVES
GRADE 12	
1 or 1 ½	ENGLISH IV or AP ENGLISH IV
1	MATH CLASS REQUIRED
1	SCIENCE ELECTIVE RECOMMENDED
4 ½	ELECTIVES

Accelerated Course Policy

Math

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

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

Science

*Student must obtain a minimum of “B” average in previous required science course. 25 pts. B/30 pts. A

*Science teacher referral from prior science course. (25 pts.)

*Proficiency score on exit exam of prior science course as determined by science department for that year. (This varies due to state established cut off yearly)

*MAP score in science of 225 or better. (25 pts)

*Automaticity score. (10 pts)

NOTE: For admittance student must obtain at least 85 out of 100 points possible. This will be scored and tallied by the Science Department.

Social Studies

*Student must have grade of 3.0 or higher in 8th grade social studies and obtain a teacher recommendation to take Accelerated 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: A PARTNERSHIP WITH THE UNIVERSITY OF THE CUMBERLANDS

WHAT IS OFFERED?

Corbin High School is partnering with the University of the Cumberland to offer students an opportunity to earn college credit while fulfilling high school requirements at a cost ranging from \$50 to \$199 for 3 credit hours. For the 2014-2015 school year, students may choose from 8 on-line courses and 6 courses taught by Corbin High School instructors as part of students schedule.

On-line courses include:

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

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

On site classes include:

- English 131 and English 132
- College Algebra
- College PreCalculus
- College Chemistry
- US History 231 and
US History 233

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 for course requirements and syllabus topics.

WHO IS ELIGIBLE?

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

Students taking courses offered by Corbin High School instructors must meet 2 of the 3 criteria listed below.

- GPA of 3.0 and above

- Teacher recommendation
- 12th grade ACT scores: Reading 20, English 18, Math 19 and Composite 19.
11th grade PLAN scores: Reading 17, English 15, Math 19 and Composite 17.

Students taking an on-line course must meet 2 of the 3 criteria listed below.

- GPA of 3.2 and above
- Recommendation from Department that would correlate to the course being taken
- 12th grade ACT Composite 19
11th grade PLAN
Composite 17

WHAT WILL THIS COST?

Online Courses will cost \$199 and may be paid in installments.

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

Students who would find this cost to be a financial hardship may apply for the Mary Jo Young Scholarship in May. This scholarship pays up to \$420 and textbook reimbursement up to \$125 per course. There is an application process that is based on financial need. This application will be available in the guidance office in April.

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, if students are majoring in medicine or pharmacy the final institution may require students to take the college chemistry required for their program and degree. See Chart below for specific college requirements.

Area College Requirements

Eastern Kentucky University

Arts & Humanities 6 hours required

CHS online courses:

Art Appreciation OR

Music Appreciation 3 hours

World Religions 3 hours

Social/Behavioral Science 3 hours required

CHS online courses:

Intro. to Psychology **OR**

Intro. to Sociology **OR**

Intro to Political Science 3 hours

Historical Perspectives 3 hours required

CHS online course:

Intro to World Civilization 3 hours

Total 12 hours online

University of the Cumberlands

Christian Faith

6 hours required

CHS online courses:

Old Testament 3 hours

World Religions 3 hours

Historical & Cultural Understanding 6 hours required

CHS online courses:

Intro to Psychology **OR**

Intro. to Political Science 3 hours

Aesthetic Appreciation 6 hours required

CHS online courses:

Art Appreciation 3 hours

Music Appreciation 3 hours

Social & Professional Awareness 6 hours required

CHS online courses:

Intro. to Sociology **OR**

Intro. to Criminal Justice 3 hours

Total 18 hours online

Morehead State University

Humanities 1

3 hours required

CHS online courses:

Art Appreciation 3 hours

Humanities 2 3 hours required

CHS online course:

Intro. to Political Science 3 hours

Social/Behavioral Science 1 3 hours required

CHS online course:

Intro to Political Science 3 hours

Social/Behavioral Science 2 3 hours required

CHS online courses:

Intro to Psychology **OR**

Intro to Sociology 3 hours

12 hours total online

Western Kentucky University

Humanities 9 hours required

CHS online courses: **Choose 2**

Art Appreciation

Music Appreciation

Old Testament 6 hours

Social/Behavioral Science 9 hours required

CHS online courses: **Choose 2**

Intro. to Political Science

Intro. to Psychology

Intro. to Sociology 6 hours

Total 12 hours online

Somerset Community College

Humanities 3 hours required

CHS online courses: **Choose one**

Art Appreciation

Music Appreciation

World Religions

Old Testament 3 hours

Social Interaction 9 hours required

CHS online courses:

Intro. to Psychology 3 hours

Intro to Sociology 3 hours

Intro to Political Science 3 hours

Total 12 hours online

Northern Kentucky University

Self & Society 9 hours required

CHS online courses: **Choose 2**

Intro to Psychology

Intro to Sociology

Intro to Political Science 6 hours

Culture & Creativity 6 hours required
CHS online courses: **Choose 2**
Art Appreciation
Music Appreciation
World Religions 6 hours
Total 12 hours online

University of Kentucky

Humanities 3 hours required
CHS online course:
Music Appreciation 3 hours

Social Sciences 3 hours
CHS online courses:
Intro to Sociology **OR**
Intro to Psychology 3 hours

Community, Culture and Citizenship 3 hours required
CHS online course:
Intro to Political Science 3 hours
Total 9 hours online

University of Louisville

Arts & Humanities 6 hours required
CHS online courses:
Art Appreciation 3 hours
World Religions 3 hours

Social & Behavioral Science 9 hours required
CHS online courses: **choose 2**
Intro to Criminal Justice
Intro to Psychology
Intro to Sociology
Intro to World Civilizations
Intro to Political Science 6 hours
Total 12 hours online

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. 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.

ANOTHER OPTION FOR COLLEGE CREDIT

Students may also earn college credit while in high school through the ECU NOW! Program with Eastern Kentucky University. Students may take one class per semester at no charge. Juniors and seniors must have a 3.0 gpa and ACT scores of English—18, Math—19, Reading--20 , and Composite of 21 on file with ECU at the time of application. Seniors may take an additional class at no charge if they have an ACT composite of 24 or higher. If seniors have an ACT composite of 21-23, the additional class will be one half of the instate tuition cost. If accepted, 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.

Corbin High School CTE Pathways

- **Human Services**
 - Culinary/Food Services
 - Hospitality Services
 - Fundamentals of Teaching
 - Early Childhood Education

- **Marketing**
 - Financial Services
 - Marketing

- **Project Lead the Way (PLTW)**
 - Pre-Engineering
 - Biomedical Sciences

- **Business**
 - Administrative Support
 - Accounting
 - Business Management

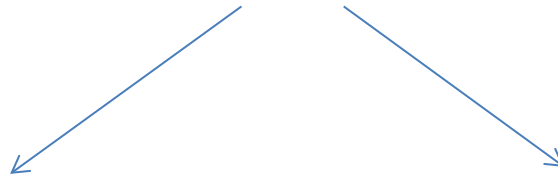
- **Area Technology Center**
 - Automotive Technology
 - Information Technology
 - Welding Technology
 - Health Sciences
 - Electrical Construction/Industrial Maintenance
 - Emergency Medical Services
 - Pre-Nursing
 - EKG Tech
 - Pharmacy Tech
 - Aerospace Scholars

- **JROTC**
- **Arts Pathways**
 - Instrumental Ensemble (Band)
 - Vocal Ensemble (Choir)
 - Theatre Performance
 - Theatre Technical
 - Visual Arts
- **Communications**
 - Multi Media Audio Video

Business Pathways

8th or 9th grade—Computer and Tech Apps
9th grade—Business Management

Note: Suggested 10th and 11th grade courses and electives may be taken in any order.



Accounting

Career Ready: Accounting KOSSA or ASK

10th grade—Accounting I



11th grade—Business Economics



12th grade—Accounting II



Other Electives:

Business Law

Business Principles

Adv Computer Apps

Administrative Support

Career Ready: Admin Support KOSSA or IC3

10th grade—Business Principles



11th grade—Accounting I



12th grade—Adv Comp Apps



Other Electives:

Business Communications

Business Economics

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

8th or 9th grade—Computer and Tech Apps

9th grade—Business Management

Note: Suggested 10th and 11th grade courses and electives may be taken in any order.



Marketing

Career Ready: Marketing KOSSA

10th-12th Grade courses may be taken in any order.

**Accounting I
Business Law
Sports/Event Marketing**

**Business Economics
Business Principles
Entrepreneurship**

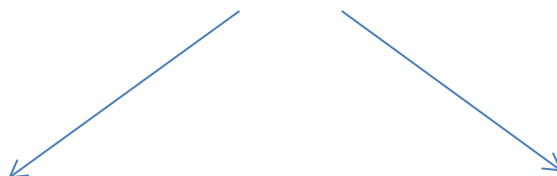
Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be “Career Ready,” a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be “College Ready” (ACT: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

Business Pathways

8th or 9th grade—Computer and Tech Apps

9th grade—Business Management

Note: Suggested 10th and 11th grade courses and electives may be taken in any order.



Business Management

Career Ready: Business Mgmt KOSSA or ASK

10th-12th grade: These courses may be taken in any order

Business Econ
Accounting I
Business Law
Business Communications
Business Principles
Entrepreneurship

Financial Services

Career Ready: Financial Services KOSSA

10th grade—Business Economics



11th grade—Accounting I



12th grade—Financial Services



Other Electives:
Entrepreneurship
Business Law

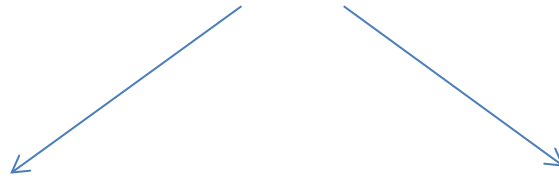
Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be “Career Ready,” a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be “College Ready” (ACT: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

Family & Consumer Science Pathways

8th or 9th grade—Computer and Tech Apps

9th grade—Business Management

Note: Suggested 10th and 11th grade courses and electives may be taken in any order.



Culinary & Food Serv

Career Ready: Culinary KOSSA or ServSafe

10th grade—Life Skills/Foods & Nutrition



11th grade—Culinary I



12th grade—Culinary II



Other Electives:

Accounting I
Money Skills

Hospitality Services

Career Ready: Hospitality KOSSA or ServSafe

10th grade—Life Skills/Foods & Nutrition



11th grade—Principles of Hosp.



12th grade—Spec Services in Hosp.



Other Electives:

Money Skills
Entrepreneurship
Adv. Foods & Nutrition

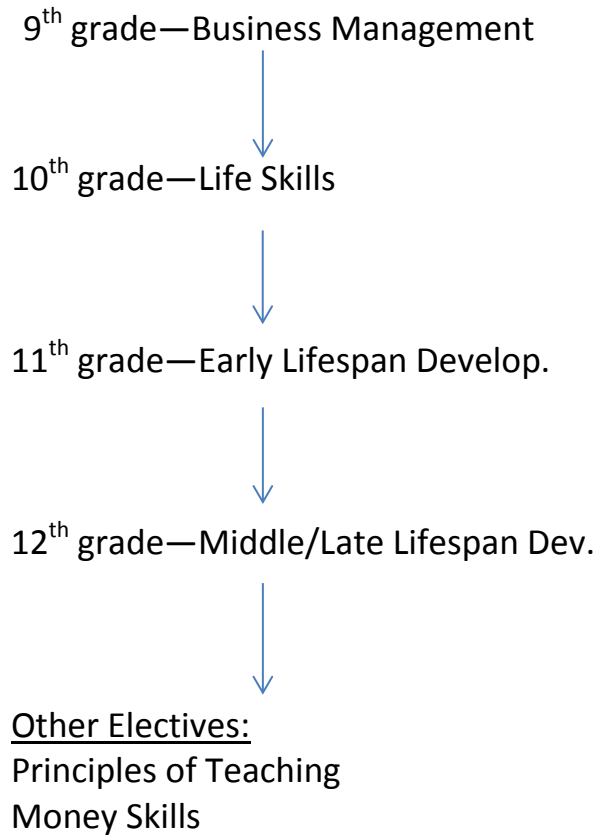
Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be “Career Ready,” a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be “College Ready” (ACT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

Family & Consumer Science Pathways

Note: Suggested 10th and 11th grade courses and electives may be taken in any order.

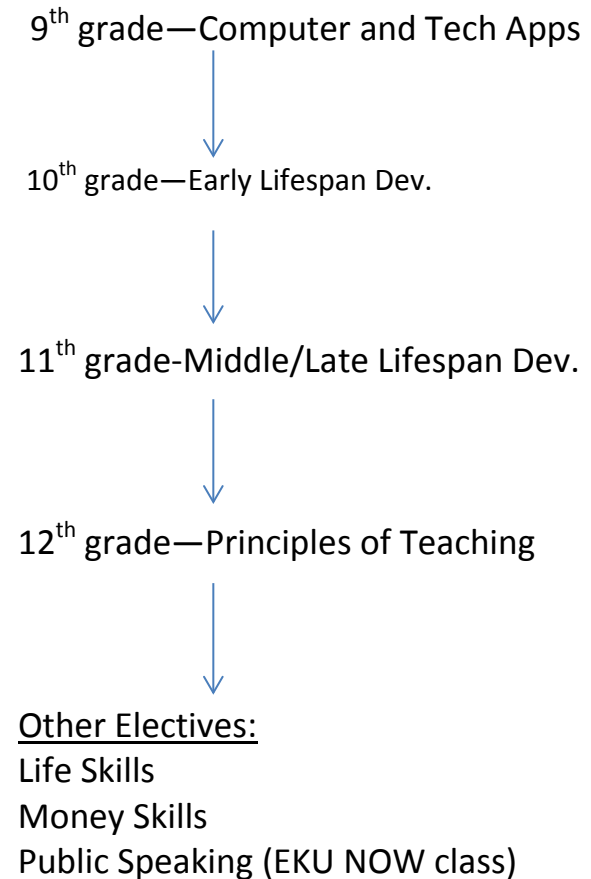
Early Childhood Education

Career Ready: Early Childhood Ed KOSSA or AAFCS-Pre-PAC



Fundamentals of Teaching

Career Ready: AAFCS-Pre-PAC



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

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

Instrumental Ensemble (Band) Pathway

Career Ready: Portfolio/Capstone assessment in Instrumental Ensemble

9th Grade--Instrumental Ensemble I (for 9th and 10th grades)



10th Grade—Music Theory I



11th Grade—Instrumental Ensemble II (for 11th and 12th grades)



12th Grade—Audition 101 or Percussion Ensemble or Music Theory II or Jazz Band or Intro to Piano or Adv Piano or any combination of these courses. (These courses may also be taken 9-11 grade as students schedule will permit)

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

Circle courses and electives that you have taken. Must have 3 credits in order to be preparatory and 4 credits to be a program completer. In order to be "Career Ready," a student must maintain a capstone portfolio 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).

Vocal Ensemble (Choir) Pathway

Career Ready: Portfolio/Capstone assessment in Vocal Ensemble

9th Grade—Vocal Ensemble I (for 9th and 10th graders)



10th Grade—Music Theory I



11th grade—Vocal Ensemble II (for 9th and 10th graders)



12th grade—Audition 101 or Intro to Piano or Adv Piano or Jazz Band or any combination of these courses. (These courses may also be taken 9-11 grade as student schedules will permit.)

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

Circle courses and electives that you have taken. Must have 3 credits in order to be preparatory and 4 credits to be a program completer. In order to be “Career Ready,” a student must maintain a capstone portfolio 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).

Visual Arts Pathway

Career Ready: Portfolio/Capstone assessment in Visual Arts

9th Grade—Visual Art I A & B



10th Grade—Visual Art II A & B



11th Grade—Visual Art III A & B



12th Grade—Visual Art IV A & B

Other Elective

Visual Art Independent Study

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

Circle courses and electives that you have taken. Must have 3 credits in order to be preparatory and 4 credits to be a program completer. In order to be “Career Ready,” a student must maintain a capstone portfolio 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).

Theatre Performance

Career Ready: Portfolio/Capstone assessment in Theatre Performance

9th Grade—Introduction to Theatre



Other Courses may be taken in any sequence

Acting/Performance

Directing

History of Literature of Theatre

Drama/Workplace Exp

Independent Study

****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.**

Circle courses and electives that you have taken. Must have 3 credits in order to be preparatory and 4 credits to be a program completer. In order to be "Career Ready," a student must maintain a capstone portfolio 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).

Theatre, Technical

Career Ready: Portfolio/Capstone assessment in Theatre, Technical

9th Grade—Introduction to Theatre



Other Courses may be taken in any sequence

Drama/Stagecraft Comprehensive	Independent Study
Drama/Stagecraft Technical	Drama/Stagecraft Design
History of Literature of Theatre	

****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.**

Circle courses and electives that you have taken. Must have 3 credits in order to be preparatory and 4 credits to be a program completer. In order to be "Career Ready," a student must maintain a capstone portfolio 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).

JROTC Pathway

9th grade—JROTC I



10th grade—JROTC II



11th grade—JROTC III



12th 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 KOSSA

9th grade—Principles of Bio-Medical Science



10th grade—Human Body Systems



11th grade—Medical Interventions



12th grade—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).

PLTW Pre-Engineering Pathway

Career Ready: Engineering KOSSA

9th grade—Introduction to Engineering Design



10th grade—Principles of Engineering



11th grade—Digital Electronics



12th grade—Engineering Design & Development

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).

Communications Pathway

Career Ready: Communications KOSSA

Note: These courses may be taken in any order or sequence.

Computer Fundamentals for Multimedia Technology A, B, C

Introduction to Multimedia A, B, C

Advanced Audio/Video A, B, C

Audio/Video Multimedia A, B, C

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—Aerospace and Aeronautics(AERO Scholars)

Career Ready: Engineering or Transportation KOSSA

Aeronautical Engineering or Flight & Aeronautics

9th Grade—Introduction to Aerospace A & B



10th Grade—Fundamentals of Aviation Science A & B



11th Grade—Advanced Aviation Science II A & B



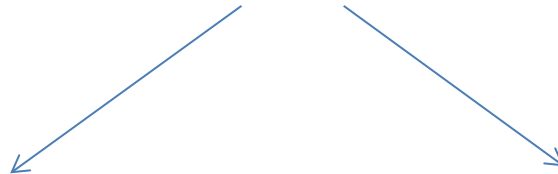
12th Grade—Senior Elective A & B

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

9th grade—Precision Measurement and/or Industrial Safety

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



Automobile Service Tech

Career Ready: Transportation KOSSA

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 KOSSA

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—Electrical Technology/Industrial Maintenance

Career Ready: Construction/Manufacturing KOSSA

Note: Suggested 10th–12th grade courses and electives may be taken in any order.

Electrical Technology

9th Grade—Electrical Construction I A & B



10th Grade--Electrical Construction II A & B



11th grade--Circuits I A & B



12th Grade--Circuits II A & B

Industrial Maintenance

9th Grade—IM Electrical Principles



10th Grade—IM Electrical Motor Controls



11th Grade— IM Motor Control Concepts



12th Grade—Industrial Main. Of PLC

Other Electives

Transformers

Electric Motor Control A & B

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 ALLIED HEALTH--EKG TECHNICIAN OR PHARMACY TECHNICIAN

9th grade

Medical Terminology and Anatomy & Physiology A/B



10th grade

Principles of Health Science A, B and Health & Wellness



11th grade

Emergency Procedures



12th grade



Pharmacy Tech

EKG Tech

Career Ready: Pharmacy Tech National Certification, EKG Tech National Certification or Allied Health KOSSA

Health Practicum



Pharmacy Practicum

Health Practicum



EKG Practicum

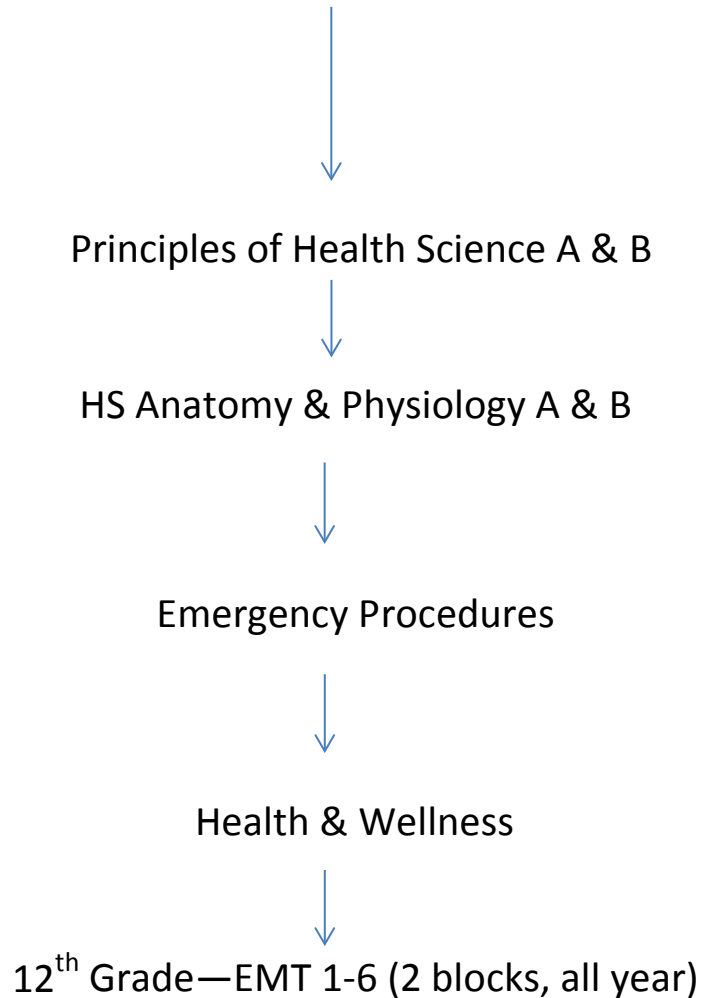
Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be "Career Ready," a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be "College Ready" (ACT: 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 KOSSA or EMT National Cert.

9th grade—Medical Terminology

Note: Suggested 10th and 11th grade courses and electives may be taken in any 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 Pre-Nursing

Career Ready: SRNA (State Registered Nurse Aid)

9th grade

Medical Terminology and Anatomy & Physiology A/B



10th grade

Principles of Health Science A, B and Health & Wellness



11th grade

Emergency Procedures



12th grade

Medicaid Nurse Aid A, B, C, D

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).

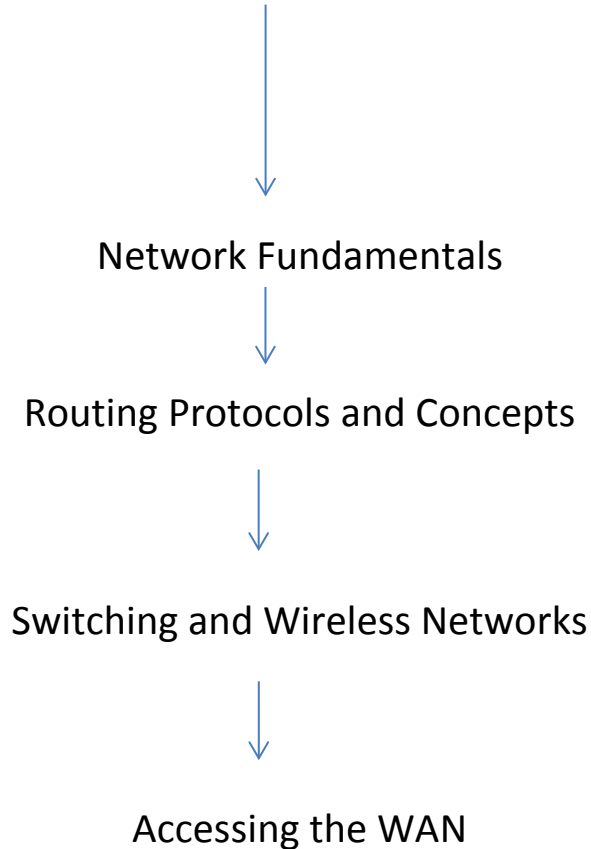
ATC Pathways—Network Administration

Career Ready: Communications KOSSA

9th grade—PC Maintenance Essentials I

PC Maintenance Essentials II

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

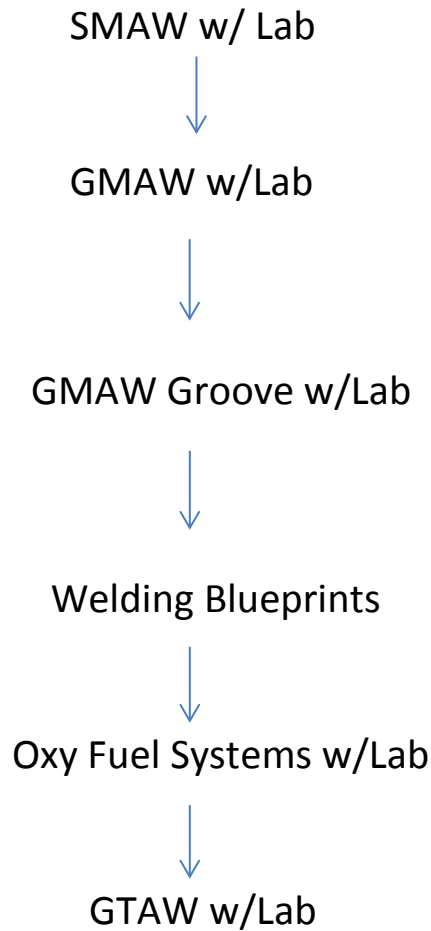


Circle courses and electives that you have taken. Must have 3 credits in order to take KOSSA and 4 credits to be a program completer. In order to be “Career Ready,” a student must pass a KOSSA and have one of the following: Gold or Silver Workkeys status, a 50 on the ASVAB, or be “College Ready” (ACT: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

ATC Pathways—Welding Technology

Career Ready: Manufacturing KOSSA

Note: Suggested 9th –12th grade courses and electives may be taken in any 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).

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.

Pre-AP 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

Grade Level: 10

Credit: ½

Prerequisite: English I

This class is the first half of the World 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. Grammar and vocabulary will be an on-going emphasis in the class.

English II B

Grade Level: 10

Credit: ½

Prerequisite: English II A

This course is a continuation of the study of World Literature required at the tenth grade level. Reading selections will include short stories and novels of the 19th and 20th centuries. This course will continue the development of grammar, vocabulary, and composition skills as well as techniques of argument and persuasion.

Pre-AP English II A and B

Grade Level: 10

Credit: ½ for each trimester

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

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.

English III B

Grade Level: 11

Credit: ½

Prerequisite: English IIIA

This course will continue the study of American writers from the 19th and 20th centuries, including the literary philosophies of Romanticism, Transcendentalism, Realism, and Modernism. As in English III (Part A), students will also read and study nonfiction genres. This course will continue to emphasize and reinforce grammar, vocabulary, and composition skills.

AP English III A, B, and C

Grade Level: 11

Credit: ½ for each trimester

Prerequisite: Pre-AP English II

The primary goal of Advanced Placement English Language and Composition is to develop your abilities as a reader and writer by giving you a college-level course during your junior year. This course is designed to teach the skills you will need to succeed in an entry level, college writing class. By passing the AP Exam at the end of the year, you will qualify for college credit in a college composition course.

The readings and writing assignments will focus primarily on developing your skills with a rhetorical emphasis in argument, analysis, and synthesis. To that end, we will read and study works from a variety of time periods and authors, with an emphasis on American literature. While we will read literature from a variety of genres, including novels, short stories, and poetry, we will place a special emphasis on nonfiction pieces including (but not limited to) speeches, essays, articles, nonfictional narratives, and editorials. These readings will help you better analyze the types of passages on the AP exam (narrative, expository, persuasive, and analytical) and refine your skills as a writer by exposing you to a variety of vocabulary words, stylistic techniques, rhetorical modes, organizational patterns, and authorial purposes. In addition to reading from a variety of written genres, we also study the rhetoric of visual images such as films, photographs, advertisements, and videos.

This is a year-long course.

English IV A**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.

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

This course will give students an overview of British literature from the 18th century through the modern era. As in English IV, Part A, students will read and study a variety of literary and non-fiction genres. Students will continue to write for a wide variety of purposes and audiences as well as to develop and refine vocabulary and grammar skills.

AP English IV (Dual Credit) Parts A, B, and C**Grade Level: 12****Credit: ½ for each trimester****Prerequisite: AP English III**

The primary goal of Advanced Placement English IV is to develop your abilities as a reader and writer (especially a critic of literature) by giving you a college-level course during your senior year. This course is designed to teach the skills you will need to succeed in an entry level, college writing class. By passing the AP Exam at the end of the year, you will qualify for college credit in a college composition or literature course. Students will also be able to take this course for dual credit through the University of the Cumberlands. **Note: This class differs from English 132 (Dual Credit) in that students will be prepped to take the AP exam as well as receive dual credit thus it will be a year-long class rather than two trimesters as is English 132. As is true in all dual credit classes, students must maintain a “C” average in order to receive credit for the course.**

Composition studies will focus primarily on writing critical essays about the literature that we read. We will read and study works from a variety time periods and authors, and you will be expected to write a short (4-5 pages) analysis over most works that we read. In addition to the analysis essays, you will write shorter, in-class timed essays in response to the literature. As a student of literature, you will be expected to read critically and to verbalize your interpretations in class discussions and college-level compositions. AP English requires your best effort at all times and emphasizes your developing independence of thought and mature habits of critical thinking. Classroom discussion and active participation are vital means of testing your ideas.

This is a year-long course.

English 131 (Dual Credit) Parts A/B**Grade Level: 12****Credit: ½ for each trimester****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 132 (Dual Credit) Parts A/B

Grade Level: 12

Credit: ½ for each trimester

Prerequisite: English 131 or AP English III (with college credit)

This course provides students with the opportunity to study basic principles of English composition and literary analysis in a dual credit, college-level class. In this course, students are expected to further master the reading and writing skills taught in English 131. This course emphasizes objective and critical thinking in response to various literary genres including short fiction, poetry, and drama. Class activities and student writing will develop critical analysis, documentation, vocabulary, and grammar skills. 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 who have received credit in English 131 or who have taken and received college credit in AP English III may take this course.**

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.

Science

Integrated Science Pre-AP A

Grade Level: 9

Credit: ½

Prerequisite: Teacher recommendation (See Honors Policy)

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.

Integrated Science Pre-AP B

Grade Level: 9

Credit: ½

Prerequisite: Teacher recommendation (See honors Policy)

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

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.

Dual Credit Chemistry A & B

Grade Level:

Credit: 1

Prerequisite: Accelerated Chemistry A/B

This course is taught in cooperation with the University of the Cumberland's as a dual credit class. This course is offered as Chem 132. This will be an advanced, fast paced college chemistry course that covers the first ½ of Introductory Chemistry. It is recommended that students who are going to be science majors complete Honors Chemistry at the high school level before taking this course.

Pre-AP Biology A

Grade Level: 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 and genetics. Standards of inquiry and technology will be utilized to show biodiversity and change.

Pre-AP Biology B

Grade Level: 10

Credit: ½

Prerequisite: Pre-AP Biology A

Pre-AP Biology B is a laboratory science course in which students engage in depth study of the principles of Biology. This course emphasizes internal and external anatomical structures and their functions, classification, microorganisms, plants, animals, human body, evolution and other unifying concepts. Scientific inquiry through the use of technology and scientific method will be utilized throughout.

Biology A

Grade Level: 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. Standards of inquiry and technology will be utilized to show biodiversity and change.

Biology B

Grade Level: 10

Credit: ½

Prerequisite: Biology A

Biology B is a laboratory science course in which students engage in depth study of the principles of Biology. This course emphasizes internal and external anatomical structures and their functions, cell division and genetics, classification, fungi, microorganisms, and evolution blended with other unifying concepts. Scientific inquiry through the use of technology and scientific method will be utilized throughout.

Biology C

Grade Level: 10

Credit: ½

Prerequisite: Biology A and B

Biology C is a laboratory science course in which students engage in depth study of the principles of Biology. This course emphasizes internal anatomy, plants, animals, and culminating unifying

concepts. Scientific inquiry through the use of technology and scientific method will be utilized throughout to enhance learning.

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.

Accelerated Chemistry A & B

Grade Level: 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: 11

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.

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 18th through the 21st 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 9th grade.

Accelerated 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

18th through the 21st 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 9th 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 10th 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 10th 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 10th 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 19th through the 21st 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 11th grade.

AP/Dual Credit U.S. History, A, B, C

Grade Level: 11

Credit: ½ for each trimester

This advanced course, taught in three 12-week components, is a more in-depth study of American history from colonization through the 21st 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 Cumberland, 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 11th grade do not have to take U.S. History A, B.

Mathematics

Algebra I A Lab

Grade Level: 9

Credit: $\frac{1}{2}$

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.

Algebra I B & C

Grade Level: 9

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

This course is a continuation of the algebra concepts first introduced in Algebra I A Lab. Topics will include linear system, quadratic equations, inequalities, radical expressions, factoring polynomials, and graphing of various functions.

Accelerated Algebra I A Lab

Grade Level: 9

Credit: $\frac{1}{2}$

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.

Accelerated Algebra I B & C

Grade Level: 9

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

This course is a continuation of Accelerated Algebra I lab. It is a more in-depth study of the concepts taught in Algebra I. The course is faster paced and requires good study habits, maturity, and motivation to be successful.

Geometry A & B

Grade Level: 10

Credit: $\frac{1}{2}$ 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.

Accelerated Geometry A & B

Grade Level: 10

Credit: $\frac{1}{2}$ 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.

Accelerated 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 introduction 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.

Advanced Topics in Mathematics (MAT 090, MAT 095, MAT 098) 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.

Trig/Pre-calculus (with College Algebra)

Grade Level: 11 or 12

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

This course is designed to prepare students for a calculus course in high school or college. Algebra skills will be reinforced, and students will extend their study of elementary functions to include trigonometric functions. Extensive modeling, problem solving, mathematical communication, applications, and appropriate use of graphing calculator technology will be integrated throughout the course.

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/I, II, III

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(Pre-Calculus/Trigonometry)

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.

CHEM 132. General College Chemistry I

Credit: 3 college hours

A foundation course forming the basis of the other more specialized chemistry courses. Fundamental principles and theories of chemistry, chemical calculations, and the properties of the more important elements are stressed. Three lectures per week. Prerequisite: ACT Math of ≥ 23 . If ACT Math < 23 , students are required to take MATH 132 (passing with at least a C grade). If students do not have at least 1 year of high school chemistry, students are strongly encouraged to take CHEM 140.

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 137. World Civilization to 1648

Credit: 3 college hours

A study of world history from ancient times to approximately 1648.

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.

MSMN 135. Exploring the Old Testament

Credit: 3 college hours

An exploration of Old Testament literature, history, and faith to help students understand the Old Testament and develop and apply Christian values in contemporary life.

MSMN 239. Exploring World Religions

Credit: 3 college hours

A survey of the development and beliefs of the world's major religious traditions.

ARTS & HUMANITIES

Visual Art I A, B

Grade Level: 9-12

Credit: ½ each part

Prerequisite: None

This class is an introductory and exploratory studio art class that encourages all areas of art for future careers or for simple enjoyment. This course follows the following areas: studio, criticism and aesthetics. Students will learn how to interpret artwork and have personal responses to their own and other artwork. (This will cover ½ of the humanities requirement if the student takes two years of Visual Art.) The students will have "hands on" experience to develop projects in drawing, painting, printing, and ceramics.

Visual Art II, III, IV / A, B

Grade Level: 10-12

Credit: ½ each part

Prerequisite: Visual Art I A, B in order, teacher recommendation

These courses are studio art classes that are a continuation of the art program. Students cover more advanced levels of art production. Students will have their artwork displayed and other art activities will be encouraged. Each student will be encouraged to start an art portfolio and to join the National Art Honor Society of Corbin High School. This will qualify a student to take the Humanities Accelerated class.

To be in this program a student must meet requirements and approval of the Humanities teachers. Art IV will be accelerated and weighted.

Computer Graphics

Grade Level: 10-12

Credit: ½

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

Vocal Ensemble I (Concert Choir)

Grade Level: 9-10

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.

Vocal Ensemble II (Concert Choir)

Grade Level: 11-12

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.

Beginning Piano

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.

Advanced Piano

Grade Level: 9-12

Credit: ½

This course is for students that have had previous piano - either at the Middle School or by private lessons. Students will continue playing the piano at their own pace and level of ability.

Instrumental Ensemble I (Concert Band)

Grade Level: 9-10

Credit: ½ each trimester

Prerequisite: Middle School Band, director approval

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 2nd 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.

Instrumental Ensemble II (Concert Band)

Grade Level: 11-12

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 2nd 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.

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.

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.

Ballroom Dancing

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-Comprehensive

Grade Level: 10-12

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: 10-12

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.

Directing

Grade Level: 10-12

Credit: ½

This course is usually taken later in a sequence of drama/theatre courses. This course addresses skills necessary to translate scripts into final dramatic productions.

History and Literature of Theatre

Grade Level: 10-12

Credit: ½

This course addresses the historical development of drama/theatre. Students will study literature of theatre and how it influenced production and performance through history. Major contributors and the architecture of the theatre will be topics of study.

Drama Workplace Experience

Grade Level: 10-12

Credit: ½

This course provides work experience in a field related to drama and the theatre. Typically a co-operative by the student and certified teacher. Students are not paid. May include classroom activities involving further study and student reflections of the workplace experience.

Drama/Stagecraft—Independent Study

Grade Level: 12

Credit: ½

This course enables students to explore a particular theatrical form in more detail and depth than other courses. Advancing skills, building confidence for professional or apprenticeship auditions, and gaining experience in public performance are emphasized. Career opportunities will be addressed.

CAREER/TECHNICAL

BUSINESS

Business Principles

Grade Level: 9-10

Credit: ½

Prerequisite: None

This entry-level course will teach the student the basics of business practices. It is designed to allow the participant to achieve a general knowledge of business concepts and organization. This class will help prepare students for upper level business classes. Topics include procedures and philosophies of business management, human resources, communication, motivation, ethics, time management, performance appraisals, delegation, and entrepreneurship. Students will be expected to create and run a business while enrolled in this course.

Entrepreneurship

Grade Level: 9-12

Credit: ½

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.

Advanced Computer & Technology Applications

Grade Level: 12

Credit: ½

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 Communications

Grade Level: 9-12

Credit: ½

Prerequisite: None

This class is designed to help the student understand the importance of communicating effectively and convincingly in their efforts to achieve success. Communicating with your friends is one thing:

communicating with anyone else falls into the realm of Business Communications. Success in the business world depends upon other people understanding you and believing in you. We are all in sales and we are all consumers. We sell ourselves every day in every communication activity that we undertake. This class will help the student communicate more effectively and professionally.

Business Law

Grade Level: 10-12

Credit: ½

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: 10-12

Credit: ½

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: 11-12

Credit: ½

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

Grade Level: 11-12

Credit: ½ 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.

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.

FAMILY & CONSUMER SCIENCE

Money Skills

Grade Level: 9-12

Credit: ½

Prerequisite: None

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

Principles of Hospitality

Grade Level: 9-12

Credits ½

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: 10-12

Credit: ½

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.

Specialized Hospitality

Grade Level: 11-12

Credit: 1/2

Prerequisite: Hospitality I & Culinary I

This course is designed to provide training in specialized services within the hospitality field. Job and career opportunities will be explored. Instruction will include skill development and

practice. Shadowing and work experiences in a variety of commercial establishments such as restaurants, hotels and motels will be included. Onsite catering opportunities will also be explored. Leadership development will be provided through the Family, Career and Community Leaders of America.

Culinary II

Grade Level: 10-12

Credit: ½

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: ½

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: 12

Credits: ½

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: ½

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

Grade Level: 11-12

Credit: ½ per trimester up to 1.5 credits

Prerequisite: 2.5 GPA, licensed driver with own transportation, principal approval, 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.

COMMUNICATIONS

****Application process. Student must be approved by teacher.**

Computer Fundamentals for Multimedia Technology A, B & C (offered alternating school years)

Grade Level:

Credits: ½ for each trimester

Students learn about the operation of the computer hardware components, PC operating systems, and software applications. Fundamentals of the Microsoft Windows operating systems are covered along with MS-DOS essentials. Students are introduced to word processing, spreadsheet, and database applications using Microsoft Office.

Introduction to Multimedia A, B, & C (Radio , Design, Technologies) offered alternating school years

Grade Level:

Credits: ½ for each trimester

Introduction to Multimedia explores multimedia concepts and vocabulary.

Advanced Audio/Video A, B, & C (Video, Radio, Technologies)

Grade Level: 10 - 12

Credits: ½ for each trimester

Emphasizes planning and creation of audio/video projects through a non-linear editing environment and deploys audio/video content through various delivery systems.

Audio/Video Multimedia A, B, & C (Redhound Report)

Grade Level:

Credits: ½ for each trimester

This course relates to processes and procedures utilized in radio and television production. Major focus is on editing of audio recordings and videos. Other topics may include operation of recording equipment, video tape development, and script writing. **Content:** Multimedia Technology **Population:** General

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.

LANGUAGE ARTS

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: 9-11

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: 11-12

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.

Introduction to Literature and Film

Grade Level: 11-12

Credit: ½

Prerequisite: None

This course is a survey of the history of film from the beginnings in the late nineteenth century to the present. Students will study a detailed history of film and literature and techniques used in film and literary analysis. Literary skills will be reinforced and analytical writing will be expected.

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).

FOREIGN LANGUAGE

Spanish I A

Grade Level: 9-12

Credits: ½

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 I B

Grade Level: 9-12

Credits: ½

Prerequisite: Spanish I A

This section continues to integrate the four language skills in reading, writing, listening and speaking, while gaining a basic knowledge and understanding of other cultures. Interaction and communication are emphasized as the student develops more accurate basic skills.

Spanish II A

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 II B

Grade Level: 10-12

Credit: ½

Prerequisite: Spanish II A

Section B is designed to provide students with the opportunity to further integrate their language skills, gain an appreciation for the contributions of the Spanish speaking world, and to enable students to complete tasks in the target language and show proficiency.

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.

SCIENCE

Chemistry & Physics Inquiry

Grade Level: 9-11

Credit: ½

Prerequisite: None

This course is intended to expose students to physical science lab activities based on topics such as; light, sound, thermal, motion, chemical, electrical and magnetic forces. The students will complete research presentations using their lab work and reports.

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: 10-12

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.

SOCIAL STUDIES

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: 10-12

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.

AP U.S. History A, B, C

Grade Level: 11

Credit: ½ each part

Prerequisite: None

AP American History extends the study of U.S. from early colonial history to the present. This course provides the student with a comprehensive knowledge of American history and prepares the student to take and pass the AP U.S. History exam.

SENIOR ELECTIVE

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 ECU 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). Seniors who score an ACT composite of 24 or higher may take a second college class free of charge each semester. Seniors can schedule ECU Now classes 1st or 5th blocks. Juniors will need to schedule classes after school hours.

PROJECT LEAD THE WAY (PLTW)

Project Lead the Way (PLTW) Course #1:

Introduction to Engineering Design (IED)

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: 9-12

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)

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.

Project Lead the Way (PLTW) AERO Scholars:
Introduction to Aerospace A, B—2 trimesters

Grade Level: 9-12

Credit: ½ each part

Prerequisite: none

This course covers the exploration of aerospace including, flight/aeronautics, aircraft maintenance, aeronautical engineering, and space. Students will learn about the forces that affect controlled flight,

investigate properties of lift, and explore flight through a flight simulator. Students will also learn about aerospace standard materials, aviation safety, aircraft and wing design, and elements of a space mission resource system.

Project Lead the Way (PLTW) AERO Scholars:
Fundamentals of Aviation Science A, B—2 trimesters

Grade Level: 10-12

Credit: ½ each trimester

Prerequisite: Introduction to Aerospace

This course covers the history of fundamentals of aerospace including, the development of the balloon, lighter than air vehicles, gliders, rockets, and heavier than air flight vehicles. Introduces students to the basic science of aerodynamics: including the development of aircraft from the Wright Brothers to the present day while exposing students to the various career opportunities in aerospace.

Project Lead the Way (PLTW) AERO Scholars:
Aviation Science A, B—2 trimesters

Grade Level: 10-12

Credit: ½ each trimester

Prerequisite: Fundamentals of Aviation Science

This course prepares students for flight training and aircraft operations. Students will gain knowledge and skills in airport systems, air traffic control procedures, aviation weather, air navigation, radio communication procedures, and Federal Aviation Regulations. Learning activities may include, but not limited, to operation of flight simulators and/or aircraft that will prepare them for the FAA Private Pilot Written Examination. This course covers the history of aviation law, federal regulation of air transportation and the role of state and federal government in aviation law, including functions of the Federal Aviation Administration. Students will become familiar with aircraft power plants, principles of flight, aircraft systems/instruments, and science of weather.

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

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.

Master Automobile Service Technology (one course)

Credit: ½ for each trimester

This advanced automotive course presents the theory, component identification, operation, diagnosis, and the service and repair of Engines and Engine Systems, 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 which include information regarding problem resolution and the results of the work performed.

Introduction to Automotive/Shop Management

Credit: ½ for each trimester

Prerequisite: None

This is a two part class. The first part is an introduction to automotive careers and vehicles. This is a great course for anyone that drives or plans to drive. This course will include maintenance and steps to follow for roadside emergencies (flat tire, dead battery, etc.). The second part deals with what is needed to maintain a successful shop.

Automotive Precision Measurement

Credit: ½

Prerequisite: None

This class will compare the SAE to Metric in the Automotive Industry. All measuring instruments from automotive will be discussed and used. A good beginning for anyone interested in Automotive Technology

Introduction to Automotive/Industrial Safety

Credit: ½ for each trimester

Prerequisite: None

This is a two part class. The first part is an introduction to automotive careers and vehicles. This is a great course for anyone that drives or plans to drive. This course will include maintenance and steps to follow for roadside emergencies (flat tire, dead battery, etc.) The second part deals with Industrial and Automotive Safety. Automobiles are usually on the cutting edge of safety, we will discuss the most current safety designs in automobiles.

Industrial Maintenance

Industrial Maintenance Electrical Principles

Grade Level: 10 - 12

Credits: 0.5

This course introduces the theory of electricity and magnetism and the relationship of voltage, current, resistance, and power in electrical circuits. The course is designed to develop an understanding of alternating and direct current fundamentals. Students will apply formulas to analyze the operation of AC and DC circuits

Industrial Maintenance Electrical Principles Lab

Grade Level: 10 - 12

Credits: 0.5

The basic AC and DC lab course allows the student to verify basic theory by making measurements in working AC and DC circuits. Various types of circuits are constructed and their parameters measured. The use of test equipment, safety, and troubleshooting are stressed.

Industrial Maintenance of PLC's

Grade Level: 10 - 12

Credits: 0.5

This course includes the theory of Programmable Logic Controllers to include installation, programming, interfacing, and troubleshooting PLC's.

Industrial Maintenance of PLC Lab**Grade Level:** 10 - 12**Credits:** 0.5

The laboratory course provides practical applications in Programmable Logic Controllers to include installation programming, interfacing, and troubleshooting of industrial PLC's.

Motor Control Concepts (IMT)**Grade Level:** 10 - 12**Credits:** 0.5

Verifies knowledge of basic theory by making measurements in working AC and DC circuits. Various types of circuits are constructed and their parameters measured. The use of test equipment, safety, and troubleshooting are stressed. This lab course also provides practical experience in the construction, operation, and maintenance of AC and DC motors.

Motor Control Concepts Lab (IMT)**Grade Level:** 10 - 12**Credits:** 0.5

Verifies knowledge of basic theory by making measurements in working AC and DC circuits. Various types of circuits are constructed and their parameters measured. The use of test equipment, safety, and troubleshooting are stressed. This lab course also provides practical experience in the construction, operation, and maintenance of AC and DC motors.

Industrial Maintenance Electrical Motor Controls Lab**Grade Level:** 9 - 12**Credits:** 1/2 - 1

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

Industrial Maintenance Electrical Motor Controls**Grade Level:** 9 - 12**Credits:** 1/2 - 1

This course addresses the diversity of electric motor control devices and applications used in industry today with safety and electrical lockouts included.

HEALTH SCIENCE

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.

Anatomy & Physiology 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.

CPR/Safety & First Aid

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.

Health & Wellness

Credit: ½

Prerequisite: None

This course's focus is promotion of health through assessment of individuals' growth and development across the life span, using a holistic approach. Stress reduction techniques are taught as well.

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.

Health Science Practicum

Grade Level: 12

Credit: ½

Prerequisite: CPR/FA certification, Principles of Health Sciences A/B, Instructor approval

Practicum provides supervised on-the-job experience related to the student's education objectives. Students participating in practicum do not receive compensation.

Health Science Cooperative Education

Grade Level: 12

Credit: Variable

Prerequisite: CPR/FA Certification, Principles of Health Science A/B, 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.

Internship: Pharmacy Technician

Grade Level: 12

Credits: 1

This is an online (computer assisted) or traditional course with a pharmacy internship that prepares students for the National Pharmacy Technician Certification (CPhT). You will gain the skills and knowledge to qualify for entry-level positions in a hospital or retail setting. This internship provides

supervised on-the-job work experience related to the students' education objectives in the area of pharmacy.

Practicum 1-EKG

Grade Level: 12

Credits: 1

The practicum provides supervised on-the-job work experience related to the students' education objectives in the area of EKG. Students participating in the practicum do not receive compensation.

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 1st & 2nd 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.

INFORMATION TECHNOLOGY

PC Maintenance Essentials A

Credit: ½

Prerequisite: None

This course introduces basic computer hardware, covering installing, building, upgrading, repairing, configuring, troubleshooting, optimizing, diagnosing and preventive maintenance, with additional elements of soft skills and security. Course objectives map closely to the CompTIA A+ Essentials National Examination that validates the basic skills needed by any entry-level computer service technician. This course emphasizes Hardware.

PC Maintenance Essentials B

Credit: ½

Prerequisite: None

This course introduces advanced computer maintenance tasks including installation, building, repairing, configuration, troubleshooting, optimizing, diagnosing and preventive maintenance in the context of the field service or enterprise environment. Course content is appropriate for those who work, or plan to work, as computer technicians in a mobile or corporate environment. This course emphasizes Operating System software.

Network Fundamentals/Cisco I

Grade Level: 10 - 12

Credits: ½

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. It provides the opportunity to build simple LAN topologies by applying principles of cabling; performing basic configurations of network devices, including routers and switches; and implementing IP addressing schemes. (This is the first course in the 2013 Cisco curriculum.)

Routing Protocol and Concepts/Cisco II

Grade Level: 10 – 12

Credits: ½

This course provides students with the skills necessary to understand and apply concepts related to networking hardware. The course covers TCP/IP concepts such as IP addressing and subnetting, router configuration, routed and routing protocols. It completes one of a series of four courses that helps prepare students for the Cisco Certified Network Associate (CCNA) certification exam. (This is the second course in the 2013 Cisco curriculum.)

LAN Switching and Wireless/Scaling Networks/Cisco III

Grade Level: 10 – 12

Credits: ½

This course provides students with the skills necessary to understand and apply advanced networking concepts. Covers local area network (LAN) switching, virtual local area networks (VLANs), advanced network design concepts, advanced router configuration and advanced network management projects. (This is the third course in the 2013 Cisco curriculum.)

Accessing the WAN/Connecting Networks/Cisco IV

Grade Level: 10 - 12

Credits: ½

This course provides students with the skills necessary to understand and apply advanced principles and applications in deploying networking hardware. It covers WAN design, WAN connectivity protocols such as PPP, ISDN and Frame Relay, as well as advanced network management projects. (This is the fourth course in the 2013 CISCO curriculum.)

Computer Network Design

Credit: ½ each part

Prerequisite: None

This course is designed to provide students the basic skills necessary to understand and apply basic networking concepts. Topics covered include the OSI Model, TCP/IP, Cabling Media, Cabling standards, and Local Area Network (LAN) design with an emphasis on LAN based entertainment. Designing and building network servers will be emphasized.

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.