2020-21 Curriculum Guide

Bardstown High School

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Kentucky Department of Education has updated graduation and transition readiness requirements for high school students. Below is in effect for freshmen who enter high school in 2019-2020 and after.

Kentucky's Ways to Demonstrate **Academic Readiness** (COMPLETE ONE)		
	Method	Requirements
1	College admissions examinations	Benchmark scores or above
2	Dual credit coursework	Six hours, approved by KDE, B or higher
3	Advanced Placement	Two tests with scores of 3 or higher
4	A combination of methods above	
For any method, students must show one learning outcome in quantitative reasoning or natural sciences and one in written or oral communications, A/H, or social and behavioral sciences.		

Kentucky's Ways to Demonstrate **Career Readiness** (COMPLETE ONE)		
	Method	Requirements
1	Industry certification	Approved by WIB With benchmark scores or above
2	Career and technical education end-of-program assessment (formerly KOSSA)	Benchmark scores or higher
3	Career and technical education Dual credit coursework	Six hours Approved by KDE, B or higher
4	Apprenticeship	Approved by Labor Cabinet or by KDE
5	Alternate process to verify exceptional work experience	Approved by KDE

NEW GRADUATION REQUIREMENTS (Freshman entering high school in 2020-2021)

YEAR	MINIMUM CREDITS	ENGLISH/ LANGUAGE ARTS	SOCIAL STUDIES	MATH	SCIENCE	OTHER CREDITS	OTHER REQUIREMENTS	GRADUATION QUALIFIER (COMPLETE ONE)
GRADE NINE STUDENTS ENTERING 2020-2021 SCHOOL YEAR	26 credits	Four credits: English I, II And two other personalized credits covering the standards.	Three credits	Three required credits: Algebra I, Geometry, and two other personalized credits covering the standards	Three credits	½ credit: Health ½ credit: Physical Education One credit: Visual/ Performing Arts	Civics Test Financial Literacy (begins in 20-21) Graduation Qualifier Graduation Prerequisite	Pre-college curriculum ACT Benchmark 3 Dual Credit Hours 3 or higher on AP Industry Certification 4 credits from a single CTE career pathway Apprenticeship (2 yea

REGISTRATION INSTRUCTIONS

Students are considered Transition Ready through Academic Readiness or Career Readiness. Students who complete one or more of the "methods" below are considered transition ready by KDE. At BHS we encourage students to pursue a method of reaching Academic and Career Ready upon graduation from high school.

1) **Use Pencil**

2) **Refer to your P2P, your schedule should be determined by your P2P.**

3) If you need help in determining what is taught in some classes or levels of classes, discuss the class with your present teachers. They will be able to help you make decisions on whether to take the class.

4) **If you have failed a required course, it is your responsibility to know what courses and semester you need to make up.** If this is a problem, see your advisor or counselor. Make sure you sign up for I-Classes if you failed multiple classes.

5) **Only ONE pass/fail class can be taken each year.**

6) **Grade Classifications**:

Grade 9	0 units of credit	**Grade 10**	5 units of credit
Grade 11	12 units of credit	**Grade 12**	19 units of credit
Graduate	26 credits		

7) Remember…Valedictorian will come from the **Advanced Curriculum** with a minimum of 5 AP courses. In addition, students must have completed 4 semesters at Bardstown High School in order to be considered for Valedictorian. ***To graduate with honors, a student must have a 3.2 GPA or above in the Advanced Curriculum and meet ACT college readiness benchmarks of: 18 in English, 22 in Math, 22 in Reading and 23 in Science.***

8) Courses listed will be offered depending on student interest and availability.

Look over your transcript on INFINITE CAMPUS carefully!! After you log in to IC, click on "REPORTS", then "Bardstown High School transcript".

Dual Credit

In Dual Credit, a student is enrolled in a course which allows him/her to earn high school credit and college credit simultaneously. This course may be taught on a high school campus, online, or on a college campus, but it will be in conjunction with a college or university.

Juniors and Seniors…(and underclassmen by acceptance)

Students with a GPA of 2.5 or higher and who meet admission requirements will be allowed to take Dual Credit classes. *Students pursuing this opportunity must take 1 Dual Credit Course for the Fall Semester and another Dual Credit Course for the Spring Semester.* With parent and university permission, students are allowed to take more than one dual credit class per semester. The cost for these classes is one-third of the rate of KCTCS tuition. Currently that rate is $174per class (plus books/fees), this could adjust slightly. Billing will come directly from the participating university, and payments must be made to them according to their calendar due dates. (It is expected that the Governor's Scholarship Program will continue in 2020-21, and this will pay for the tuition for 2 general ed/core content classes during high school). Please talk with your parents/guardians about this opportunity.

- **ENG101/102-students must have at least met Reading and English benchmarks upon registration.**
- **MAT150-students must have at least met the math benchmark upon registration.**

ACT BENCHMARKS--English 18, Math 19 and Reading 20

Freshmen through Seniors…

Dual Credit courses are embedded into most CTE programs. Many of the career & technical pathways lead to associate degrees or certificates through ECTC or they transfer as part of a bachelor degree program. The Work Ready Scholarship allows 2 classes per year, tuition free. **(2.5gpa is required) Additional requirements such as ACT Benchmarks may be required for specific classes.**
(Students are encouraged to consider their future plans, look into the college requirements, and then decide if the dual credit courses will fit into their post-secondary plan.)

Seniors may also attend ECTC (Etown or Springfield campus) in the afternoon, provided they meet these requirements.

1) Meet Kentucky ACT benchmarks of English 18, Math 19 and Reading 20.
2) Have completed three Math, Social Studies, English and Science courses.
3) Have completed one Arts & Humanities, Health and PE course.
4) Must take a minimum of three courses including one English course and one Math course at BHS senior year.
5) Students must be on track to graduate with diploma desired.

You can find the **Fall 2020 c**ourses when they become available ECTC by going to their website www.elizabethtown.kctcs.edu . Click on **Academics** near the top of the page and then **Course Schedules**.

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Courses will be offered depending on student interest and availability.

Electives available to 9th Graders:

Accounting I	Computer Apps	Marketing Principles	Engineering I
FACS Essentials	Spanish I (or II)	Band	Beginning Chorus
String Orchestra	Art I (or II with approval)		Study Skills (Science)
Beginning Strength & Conditioning			

**Nelson County Area Tech Center Career Pathways-two class periods

Electives available for 10th Graders: All electives listed for 9th graders plus…

Accounting II	Foods & Nutrition	Child Development Services I	
Engineering II	Robotics Engineering (w/approval)		Technical Design I(w/approval)
Spanish II (or III)	Mixed Chorus	Advanced Chorus	Art II (or III with approval)
Team Sports	Advanced Strength & Conditioning		

**Nelson County Area Tech Center Career Pathways-two class periods

Electives available for 11th Graders: All listed for 9th and 10th grade plus…

Technical Design II	Robotics Automation and Design	Special Problems in Technology
Multimedia Publishing	Personal Finance	Microsoft Office Certification(MOS)
Spanish III (or IV)	Human Anatomy(pre-req)	Forensics(pre-req)
Art III	Yearbook(application req)	Teaching & Learning
FMD Peer Tutoring **(GPA 2.75 or higher)**	Elem. Tutoring **(GPA 2.75)**	
WKU Dual Credit Online (***Must have met ACT benchmarks**)		

**Nelson County Area Tech Center Career Pathways-two class periods

Electives available for 12th Graders: All listed above, plus…

Industrial Engineering	Engineering Capstone		
AP Spanish IV/V	AP Psychology	AP Government	AP Art

Refer to page 16 for senior math options and consult with math teacher to initial.

**Work-Based Learning(Co-op, Internship, or Apprenticeship related to pathway)-applications due by May 1.

Please see detailed course descriptions beginning on page 16.

COURSE DIRECTORY

ARTS

Art I	Art II	Art III	
AP Art	Arts and Humanities	Drama I	Drama II

BUSINESS EDUCATION

Computer Apps	Marketing Principles
Accounting I	Microsoft Office Specialist (Dual Credit Option 11/12)
Accounting II	Multimedia Publishing

ENGINEERING

Engineering I	Engineering II	Technical Design I	Architectural Design
Technical Design II	Robotics Engineering	Industrial Engineering	
Engineering Capstone	Robotics Automation and Design		

ENGLISH

English I	or	Pre-AP English I
English II	or	Pre-AP English II
AP English Language & Composition	or	English III
AP English Literature & Composition	or	English IV

FAMILY AND CONSUMER SCIENCE

FACS Essentials	Foods & Nutrition	Child Development Services I

FOREIGN LANGUAGE

Spanish I	Spanish II	Spanish III	AP Spanish IV/V

HEALTH AND PHYSICAL EDUCATION

Health/Physical Education I	PE II /Team Sports
Strength & Conditioning	

MATHEMATICS

Basic Algebra I	Algebra I	Pre AP Algebra I	
Basic Geometry	Geometry	Pre AP Geometry	
Basic Algebra II	Algebra II	Pre AP Algebra II	
AP Calculus AB	AP Calculus BC	AP Statistics	MAT 150/College Algebra
MAT 146/Contemporary Math	Business Mathematics	Personal Finance	Money Skills

MEDIA

Yearbook

MUSIC

Arts and Humanities	Beginning Chorus	Mixed Chorus	Advanced Chorus	Band	String Orchestra

SCIENCE

Pre-AP Physics (9)	IPC (9)	Biology (10)	Forensics (elective)
Pre-AP Biology I (10/11)	Pre-AP Chemistry I (10)	Environmental Science (11)	AP Environmental Science (11)
AP Physics I	AP Chemistry	AP Biology	Human Anatomy (elective)
Science Study Skills (elective)		CHEM 130/135/Intro to Gen and Bio Chem w/Lab	

SOCIAL STUDIES

World Civilization	Civics and Economics	U.S. History
AP U.S. History	AP Government	AP Psychology (elective)

ADVANCED CURRICULUM DIPLOMA

(Subject to change due to KDE new graduation requirements)

4 English - AP English Language required.

3 Science - Please select your sequence based on career interest. See "Science Course Selection."

Sequence A	**Sequence B**
IPC (9)	Pre-AP Physics (9)
Biology (10)	Pre-AP Biology and Pre-AP Chemistry (10)*If these are not taken concurrently, PreAP Chemistry is taken in 10, PreAP Biology in 11
Environmental Science (11)	AP Environmental Science (11)

- ***Please refer to additional AP courses based on career interest(pages 13-14)***

4 Math

Algebra I
Geometry
Algebra II
AP Statistics
Introduction to College Algebra OR AP Calculus

3 Social Studies

World Civilization
Civics and Intro to Economics
U.S. History or AP U.S. History
AP Government may be taken, but not required
AP Psychology may be taken, but not required

2 Foreign Languages (Same)
1 Arts and Humanities
1 Health and Physical Education
10 Additional courses based on ILP/P2P
5 AP courses required -- Must take AP English Language and any other four AP classes.

Total: 28 credits required

COLLEGE PREP CURRICULUM DIPLOMA

(Subject to change due to KDE new graduation requirements)

4 English

3 Science - Please select your sequence based on career interest. See "Science Course Selection."

Sequence A	**Sequence B**
IPC (9)	Pre-AP Physics (9)
Biology(10)	Pre-AP Biology and Pre-AP Chemistry (10)*If these are not
AP Environmental Science (11)	taken concurrently, PreAP Chemistry is taken in 10, PreAP Biology in 11
	AP Environmental Science (11)

- ***Please refer to additional AP courses based on career interest(pages 13-14)***

4 Math

Algebra I
Geometry
Algebra II
AP Statistics or Intermediate College Algebra or AP Calculus

3 Social Studies

World Civilization
Civics and Intro to Economics or AP Government
U.S. History or AP U.S. History

2 Foreign Language

1 Arts and Humanities

1 Health and Physical Education

9 Additional courses based on ILP/P2P

Total: 27 credits required

GENERAL CURRICULUM DIPLOMA

(Subject to change due to KDE new graduation requirements)

4 English

3 Science

IPC
Biology
Environmental Science

3 Math - All students must take a mathematics course every year of high school.

Sequence A		**Sequence B**
Algebra I	**OR**	Basic Algebra I
Geometry		Basic Geometry
Algebra II		Basic Algebra II
Business Mathematics or AP Statistics		Business Mathematics or Personal Finance or Money Skills

3 Social Studies

World Civilization
Civics and Intro to Economics
U.S. History

1 Arts and Humanities

1 Health and Physical Education

8 Additional courses based on ILP/P2P

Total: 26 credits required

Career & Technical Education

Career and Technical Education prepares students for careers as well as post-secondary education. Students will learn real-world skills to assist them on their journey of being a productive and independent citizen with a specific skills set for entry-level employment. The skill set of students completing a career pathway will allow students the opportunity to spend part of their day during senior year in a Work-Based Learning environment related to their P2P/Career Pathway.

This section outlines courses & career pathways available through the Career & Technical Education Department at Bardstown High School and the regional Area Technology Center. Each table outlines the sequence of courses available and what should be taken to complete a specific career pathway.

CAREER PATHWAY OPPORTUNITIES FOR STUDENTS SUMMARIZED:

LOCATED AT BHS--see pages 10-12

- ★ BUSINESS/MARKETING/FINANCE
- ★ EARLY CHILDHOOD EDUCATION/FAMILY CONSUMER SCIENCES
- ★ ENGINEERING/ROBOTICS/TECHNICAL DESIGN
- ★ TEACHING & LEARNING

LOCATED AT REGIONAL ATC--see pages

- ★ CONSTRUCTION
- ★ WELDING
- ★ NURSING/ALLIED HEALTH
- ★ AUTOMOTIVE/LIGHT MAINTENANCE REPAIR
- ★ CAD-COMPUTER AIDED DRAFTING
- ★ IT-INFORMATION TECHNOLOGY/NETWORKING
- ★ ELECTRICAL
- ★ AIR FORCE ROTC-LOCATED AT NCHS GYM

WORK READY DUAL CREDIT

2 Work-Ready DC Scholarships PER YEAR for CTE dual credit courses

INDUSTRY CERTIFICATES

MOS, Autodesk, ASE, NOCTI, End-of-Program Assessments

LEADERSHIP & SERVICE

Join a student organization to develop leadership skills--FBLA, FCCLA,TSA, HOSA

Students at BHS are encouraged to complete a pathway to allow for greater opportunities

- 4 courses=Completer (KDE Recognition Certificate)
- Leads to Transition Readiness
- Work-Based Learning-Internships, Apprenticeship, Co-op
- Industry Certificates

Engineering and Technology Design

Designed for students interested in the various disciplines of engineering. The sequence of courses will provide students with the opportunity to develop critical thinking skills and understanding of engineering concepts. Students then apply these skills in conjunction with the multi-step engineering design process to solve real-world problems. Includes instruction in two-dimensional and/or three-dimensional engineering design software, solid modeling, and engineering animation to solve real-world problems

Course Sequence
Engineering I
Engineering II
Choose (2-3) two – three credits from the following:
Technical Design I
Technical Design II
Architectural Design
Engineering Capstone
Engineering Co-op **OR** Engineering Internship

AUTOMATION ENGINEERING

This pathway prepares individuals to apply scientific and mathematical principles to the design, development, and implementation of automated and robotic systems. The pathway includes instruction in materials science and engineering, manufacturing processes, process engineering, assembly and product engineering, robotic systems design, and manufacturing competitiveness. Automation Engineers plan the practices of manufacturing by researching and developing tools, processes, machines, and equipment to integrate the facilities and systems for producing quality products with the optimal expenditure of capital.

(Pathway in Progress)

Course Sequence
Engineering I
Engineering II
Choose (2-3) two – three credits from the following:
Industrial Engineering
Robotics Engineering
Robotics Automation and Design
Engineering Capstone
Engineering Co-op **OR** Engineering Internship

Business & Marketing Career Pathways

Business courses prepare students for nearly all careers in one way or another. Employers want specific skills, however, there are a set of skills in technology, employment, and business that are used in nearly all businesses.

9TH -12TH GRADE COURSE SEQUENCE. Ideally students will begin 9th grade year and will take classes in the order they are listed to best prepare them for careers and assessments.

Accounting Pathway		
1st Course:	Computer Apps	
2nd Course:	Accounting 1	*Must be taken in consecutive years for this pathway.*
3rd Course:	Accounting 2	
4th Course:	Personal Finance	
Alternate Courses:	Advanced Accounting or Microsoft Office Specialist	

SAMPLE CAREERS SUPPORTED BY THIS CAREER PATHWAY
Accountant
Auditor
Bookkeeper
Billing/Posting Clerk
Financial Manager

Admin Support Pathway	
1st Course:	Computer Apps or Accounting 1
2nd Course:	Accounting 1 or Computer Apps.
3rd Course:	Microsoft Office Specialist
4th Course:	Office Admin
Alternate Courses:	Personal Finance

SAMPLE CAREERS SUPPORTED BY THIS CAREER PATHWAY
Public Relations
Office Manager
Medical Secretary
Accountant
Loan Officer

E-Commerce Pathway	
1st Course:	Computer Apps
2nd Course:	Microsoft Office Specialist
3rd Course:	Marketing Principles
4th Course:	Multimedia Publishing
Alternate Courses:	Web Design

SAMPLE CAREERS SUPPORTED BY THIS CAREER PATHWAY
Web Designer
Graphic Designer
Public Relations
Advertising
Sales

Business Education Co-Op: may be taken senior year while also enrolled in the 4th capstone course.
Dual Credit Opportunities: available to 11th and 12th grade students for MOS and Personal Finance courses through Murray State University.
Transition Readiness Tests/Industry Certifications: EOP – Accounting, Administrative Support, Marketing and Microsoft Office Specialist Certifications for all students enrolled in their third or fourth course in a pathway.

Family & Consumer Science Pathways

Consumer & Family Services

Recommended (3)

- FACS Essentials
- Money Skills
- Relationships
- Foods & Nutrition

Electives (1)

- Internship: Consumer & Family Services
- Co-op: Consumer & Family Services

Early Childhood Education

Recommended (3)

- Early Lifespan Development
- Child Development Services I
- Child Development Services II

Electives (1)

- FACS Essentials
- Relationships
- Internship: Early Childhood Education
- Co-op: Early Childhood Education

Note:

- ❑ *Students must have two credits in a career pathway and be enrolled in their 3rd to take the EOP assessments.*
- ❑ *To earn a career pathway, students must earn four credits within their chosen pathway before graduation.*

Teaching and Learning Career Pathway

(Available to students beginning in 11th grade)

This career pathway allows aspiring P-12 Educators to begin taking educator preparation courses while in high school. The student will take three dual credit courses through the University of Louisville. Up to 9 hours that are applicable to teaching all grade levels are available. The student must have an 18 in Reading on the ACT and a 2.5 GPA to enroll in these courses. They qualify for the Work Ready Dual Credit Scholarship.

- EDTP 201 The Teaching Profession (3 hours)
- EDTP 215 Foundations of Instruction (3 hours)
- EDTP 107 Human Development and Learning (3 hours)

Pathways at NCATC **(Minimum of 2 years to complete)**

Course descriptions for the career pathways offered at the ATC can be found online at http://atc.nelson.kyschools.us/programs.html
(Several dual-credit opportunities for students with a 2.5 gpa)

- ❑ **Allied Health**
- ❑ **Automotive (Maintenance & Light Repair)**
- ❑ **Carpentry TRACK**
- ❑ **Computer Aided Drafting**
- ❑ **Electrical TRACK**
- ❑ Engineering PLTW
- ❑ HVAC
- ❑ Information Technology
- ❑ Welding
- ❑ AFROTC - located at NCHS gym

Science Course Selection

There are **TWO** criteria that must be met regarding a student's science education:

1. **Three** high school science credits must be earned for graduation per Kentucky Regulation.
2. Students **must** take courses that teach **all** the science standards adopted by the state of Kentucky per Kentucky Regulation.

These two criteria may be met by two separate pathways.

Grade	STEM Pathway	Non-STEM Pathway
9th	Pre-AP Physics	Introduction to Physics and Chemistry
10th	PreAP Biology and PreAP Chemistry	Biology
11th	AP Environmental Science (if not taken in 8th grade) *Career preparation –AP Science courses*	Environmental Science or AP Environmental Science
12th	*Career preparation – AP Science courses*	*Optional Elective –Human Anatomy or Forensics*

**A student must be enrolled in a science course in grades 9 – 11, regardless of accumulated credits.*

The BHS science department recommends the following sequence of courses depending on students' career interests.

Students who want to pursue a STEM (Science, Technology, Engineering, and Mathematics) career pathway will need to follow a different science course sequence than students interested in other fields. Listed below are the suggested course sequences based on student career interests.

STEM Careers

Engineering

9th PreAP Physics
10th PreAP Chemistry and PreAP Biology
11th AP Chemistry (along with AP Environmental Science if not taken in 8th grade)
12th AP Physics
*Those interested in Biomedical Engineering should also take AP Biology and Human Anatomy.

Future Engineering majors should also take Engineering classes at BHS for electives including: 9th Grade – ENGINEERING I, 10th Grade –ENGINEERING II , 11th Grade- TECHNICAL DESIGN I, and 12th Grade- TECHNICAL DESIGN II

Healthcare Profession (doctor, dentist, pharmacist, physical therapist, medical technologist, chiropractor, optometrist, physician's assistant, veterinary medicine).

9th PreAP Physics
10th PreAP Chemistry and PreAP Biology
11th AP Chemistry and Human Anatomy (along with AP Environmental Science if not taken in 8th grade)
12th AP Physics and AP Biology

Healthcare Profession (nurse, nurse practitioner, dental hygiene, allied health, nutrition)
9th PreAP Physics
10th PreAP Chemistry and PreAP Biology
11th CHEM 130/135 (and AP Environmental Science if not taken in 8th grade)
12th Human Anatomy

Other science related fields (biology, chemistry, physics major; forensics)

9th PreAP Physics
10th PreAP Chemistry and PreAP Biology
11th AP Chemistry and Human Anatomy or AP Env. Science
12th AP Physics and AP Biology and Forensics

College Bound but not in a STEM field, no 8th grade Environmental Science Credit

9th Introduction to Physics and Chemistry (IPC)
10th Biology
11th Environmental Science (AP Environmental Science encouraged)
12th Human Anatomy (Optional) or Forensics (Optional)

College Bound but not in a STEM field, with 8th grade Environmental Science Credit

9th Introduction to Physics and Chemistry (IPC) or PreAP Physics
10th Biology (or PreAP Biology) **if PreAP Physics was taken in 9th grade, PreAP Chem must be taken in 10th
11th Environmental Science (AP Environmental Science encouraged)
12th Human Anatomy (Optional) or Forensics (Optional)
A student could also take CHEM130/135 as a general education dual credit if he or she has taken PreAP Chemistry

General Diploma

9th Introduction to Physics and Chemistry (IPC)
10th Biology
11th Environmental Science

Math Course Selection

8th Grade Algebra 1 Final Grade A or B	**8th Grade Algebra 1 Final Grade C or Below**	**8th Grade Math**	**8th Grade Pre- Algebra**
9th Grade Pre AP Geometry	9th Grade Pre AP Algebra I	9th Grade Algebra 1	9th Grade Basic Algebra 1
10th Grade Pre AP Algebra 2	10th Grade Pre AP Geometry	10th Grade Geometry	10th Grade Basic Geometry
11th Grade AP Calculus OR **College Algebra (MAT 150) and **Trigonometry (MAT 155)	11th Grade Pre AP Algebra 2	11th Grade Algebra 2	11th Grade Money Skills/Personal Finance Class of 2024 and after
12th Grade **College Algebra (MAT 150) and **Statistics (MAT 220) OR **Contemporary Math(MAT 146) OR AP Statistics OR AP Chemistry OR AP Physics	12th Grade **College Algebra (MAT 150) and **Statistics (MAT 220) OR **Contemporary Math(MAT 146) OR AP Statistics OR AP Chemistry OR AP Physics	12th Grade **College Algebra (MAT 150) and **Statistics (MAT 220) OR **Contemporary Math(MAT 146) OR AP Statistics OR Business Mathematics	12th Grade Business Mathematics
**Must meet course specific benchmarks and have a GPA of at least 2.5.			

ARTS

ART I **1 Credit**

Explores the elements of Art: the principles of design; production of two-dimensional and three dimensional art including a variety of media, processes, and the appropriate use of tools and materials; visual arts career opportunities; art history, culture, aesthetics and criticism. Areas of production will include basic two and three-dimensional processes centered around the Elements of Art and Principles of Design.

ART II **1 Credit**

(Prerequisite: General Art or approval of instructor) This course builds upon basic skills learned in General Art 1. We will build upon knowledge of composition and design through a variety of 2-D media and will explore basic graphic design. Possible projects could include: intermediate drawings, paintings, chalk pastels, and graphic design. A portfolio will be required for this class and will be turned in at the end of the year. ***Recommendation: Grade of A in General Art I***

ART III **1 Credit**

(Prerequisite: Art II and approval of instructor or both General Art I and Art II) This course is designed to prepare students for the AP Art Portfolio. Therefore, projects will focus on areas of the AP Art portfolio that the student is interested in, such as: Drawing, 2-D Design, or 3-D design (possibly). Students will be required to turn in a portfolio at the end of the year that contains a completed concentration, which could be used for their AP Portfolio. Projects could include the following media: graphic design, 3-D work (junk sculptures), mixed media, drawing, chalk pastels. There will also be a required portfolio. ***Recommendation: Grade of A in Advanced Art.***

AP ART – Drawing or 2D **1 Credit**

(Prerequisite: General Art, Advanced Art, Pre-AP Art, AND approval of instructor) Students enrolled in this class will be required to submit a completed portfolio to the AP Board by the completion of the course (beginning of May). Students will be able to choose between the 2-D Design and Drawing Portfolios. Projects will focus on the creation of a 12 piece concentration and artworks that demonstrate the range and talents of the individual. Failure to submit the portfolio will result in a failing grade. ***Prerequisite: Grade of A in previous Art class and signature/approval of instructor.***

ARTS & HUMANITIES **1 Credit**

This is a survey course designed to expose students to a variety of topics, including: drama, dance, film, music, visual arts, history, etc. Students will experience, analyze, create, reproduce a great variety of arts spanning pre-history to modern times. We read and/or write every day in this class.

BUSINESS EDUCATION

COMPUTER APPS (9-11) **1 Credit**

This course is designed to provide students with entry- level workplace skills through hands on use of word processing, spreadsheets and graphs, database management, desktop publishing, presentation software, desktop management, electronic communications and the Internet. Students leave this course able to produce higher quality work, more efficient research, and professional documents that will benefit them in other high school courses, future college courses, and employment.

ACCOUNTING I (9-12) **1 Credit**

This course will provide an introduction to both areas of accounting and finance. Topics will include banking, credit, financial literacy, career exploration, spreadsheet usage, and technical writing. The accounting principles taught in this course are based on a double-entry system and include preparing bank reconciliations, payroll taxes, and financial statements. Detailed career exploration in the various fields of accounting will be available. Technical writing will be provided through IPAC business plan curriculum and exploration of case studies. Leadership development will be provided through FBLA.

ACCOUNTING II (10-12) **1 Credit**

The accounting principles taught in this course include an in-depth study of accounting principles, procedures, and techniques used in keeping financial records for sole proprietorships, partnerships, and corporations. There is an emphasis on automated accounting. Topics include a more analytical approach to accounting. Leadership development will be provided through FBLA.
Prerequisite: Grade of C or better in Accounting I.

MARKETING PRINCIPLES (9-12) **1 Credit**

Marketing Principles introduces students to the dynamic processes and activities in marketing. The course develops student understanding and skills in the functional areas of marketing, as well as business law, communication skills, customer relations, economics, human resources management, and operations. Current technology will be used to acquire information and to complete activities. Throughout the course, students are presented ethical dilemmas and problem-solving situations for which they must apply academic and critical-thinking skills. Leadership development will be provided through FBLA.

MICROSOFT OFFICE SPECIALIST(10-12) **1 Credit**

As an extension of Computer and Technology Applications and Advanced Computer and Technology Applications, students will have the opportunity to increase their computer skills. Students will work to earn Microsoft Office Certification in all of these Microsoft programs: Word, Excel, Power Point and Access. Dual-Credit opportunity through Murray State (11^{th} and 12^{th} only).

Prerequisite: Computer Applications.

MULTIMEDIA PUBLISHING (11-12) **1 Credit**

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

Prerequisite: 11^{th} & 12^{th} grade only

PERSONAL FINANCE (11-12) **1 Credit**

The goal of the Personal Finance course is to help students to become financially responsible, conscientious members of society. To that end, this course develops student understanding and skills in areas such as money management, budgeting, financial goal attainment, the wise use of credit, insurance, investments, and consumer rights and responsibilities. Throughout the course, students also examine contemporary, real-world ethical dilemmas that individuals commonly encounter when managing their personal finances. Leadership development will be provided through FBLA (Future Business Leaders of America) and/or DECA.

Prerequisite: 11^{th} & 12^{th} grade only

BUSINESS CO-OP EDUCATION **1 Credit**

This course is an educational program consisting of in-school instruction combined with on-the-job work experience in a business or industrial establishment. These are planned experiences supervised by the school and the employer to ensure that each phase contributes to the student's Individual Learning Plan and Career Major / Clusters. Prerequisite: This course is offered to high school seniors who are preparatory in business or another CTE area. Students must also complete an application process.

Student must be enrolled in a capstone course as well as the 1 or 2 class periods they leave for work.

INTERNSHIP/APPRENTICESHIP **1 Credit**

CTE preparatory students have the opportunity to use the skills they have learned in their coursework and apply it to work-based experiences. Internships are offered only once to students and will lead to credit. These can be paid or unpaid workplace learning experiences. There is an application and approval process to enroll. (11th or 12th preparatory students) See Mrs. Hodges for more information. Apprenticeships are available on a limited basis to students who have completed their career pathway. These are dependent on business/community partners.

ENGINEERING TECHNOLOGY

ENGINEERING I **1 Credit**

This course applies the skills, concepts, and principles of engineering. Students explore various technological systems and engineering processes in related career fields. Topics include investigating technological system, design optimization, and problem solving. Students utilize CAD (computer-aided design) and physical and virtual modeling concepts to construct, test, collect, and report data. **Participation in Kentucky Technology Student Association will greatly enhance instruction.**

ENGINEERING II (Dual Credit option CAD 102)

A project and research based course that extends the learning experiences where students focus on mechanical, electrical, fluid and thermal systems allowing in depth exploration in selected disciplines of engineering areas such as manufacturing, power/energy/transportation, robotics, hydraulics, electricity/electronics,

communications, construction systems, alternative energy, computer-aided design, and problem solving. **Participation in Kentucky Technology Student Association will greatly enhance instruction. Recommended Grade Level:** 10 – 12

TECHNICAL DESIGN I (Dual Credit option CAD 112) **1 Credit**

This course will provide students with instruction in the characteristics and evolution of drafting technology, underlying principles of design and fundamental knowledge and skills in the use of mechanical drawing, illustrations, and various forms of mechanical drawings, geometry and applied mathematics that apply to engineering design. Introduction to various forms of computer aided software to gain basic skills and knowledge. **Participation in Kentucky Technology Student Association will greatly enhance instruction.**
Prerequisites: Engineering I 210221 and Engineering II 210222 **Recommended Grade Level:** 10 - 12

TECHNICAL DESIGN II (Dual Credit Option CAD 200)

This course contributes to the development of each high school student's capability to understand how technology's development, control, and use are based on design constraints and human wants and needs. The structure of the course challenges students to use technological design processes so that they can think, plan, design, and create solutions to engineering and technological problems. Students are actively involved in the organized and integrated application of technological resources, engineering concepts, and scientific procedures. Students address the complexities of technology that stem from designing, developing, using, and assessing technological systems. **Participation in Kentucky Technology Student Association will greatly enhance instruction.**
Prerequisites: Engineering I 210221 and Engineering II 210222
Recommended Grade Level: 10 - 12

INDUSTRIAL ENGINEERING **1 Credit**

This course allows students the opportunity to develop a project from vision to reality by working with teams to design, engineer, manufacture, construct, test, redesign, and produce a finished project. This course can serve as capstone course working with business and industry as part of their design, development, fabrication, and marketing using skills and knowledge from previous manufacturing courses. **Participation in Kentucky Technology Student Association will greatly enhance instruction.**
Prerequisites: Engineering I 210221 and Engineering II 210222
Recommended Grade Level: 10 - 12

ROBOTICS ENGINEERING **1 Credit**

This course provides students with the foundation in content and skills associated with robotics and automation, including artificial intelligence, electronics, physics, and principles of engineering. **Participation in Kentucky Technology Student Association will greatly enhance instruction.**
Prerequisites: Engineering I 210221 AND Engineering II 210222
Recommended Grade Level: 10 - 12

ROBOTICS AUTOMATION AND DESIGN – Instructor MUST approve **1 Credit**

This course provides students with content and skills essential to the design and operation of robotic systems. Students' activities will include artificial intelligence specialized sensors, electronic applications, engineering technologies, environmental physics, manufacturing, topographical considerations, programming, motions physics, electric motors, communications, simulations, simulation and modeling, and critical thinking skills. **Participation in Kentucky Technology Student Association will greatly enhance instruction. Prerequisites:** Engineering I 210221 and/or Engineering II 210222 **Recommended Grade Level:** 10 – 12

ENGLISH

ENGLISH I **1 Credit**

This course is designed to expose students to various types of reading, from literary, informational, practical/workplace, and persuasive sources, with particular emphasis on comprehension of and response to informational reading. Students use the writing process and criteria for effective writing in order to compile a collection of literary, personal and transactive pieces for a variety of authentic purposes and audiences. Throughout the year, emphasis is placed on effective and grammatically correct writing skills. Students will also be expected to practice communication skills (i.e. speaking, listening, observing) and begin to develop skills necessary to produce computer-generated assignments.

PRE-AP ENGLISH I **1 Credit**

Pre-AP English I will move at a more rapid pace than English I. A student desiring to take Pre-AP English I should have a reading comprehension at or above grade level in order to perform well within the class. Students are expected to be familiar with literary devices that would permit them to understand literary conversations without having to have concepts (including but not limited to connotation, tone, figurative language, irony, and symbolism) explained. Students will be required to offer literary analysis and critiques rather than mere summaries. The class will require most all reading to be done on one's own and will require more speaking and presentations than general English I classes.

ENGLISH II **1 Credit**

English II is designed to expose students to various types of reading from literary, informal, and persuasive and practical/workplace sources, with particular emphasis on comprehension of and response to practical/workplace reading. As begun in English I, students will continue in this course to utilize the writing process and criteria for effective writing to compile a collection of writings for a variety of authentic purposes and audiences. Particular emphasis will be placed upon incorporating material from multimedia searches into oral and written research pieces which exhibit correct source documentation, utilize organizational aids and graphics, and display coherence and unity. As in English I, students will continue to practice communication skills (speaking, listening, and observing.)

PRE-AP ENGLISH II **1 Credit**

This course is meant to be an advanced version of English II. The course will maintain and enhance the emphasis the English II course gives to reading comprehension and analysis, as well as effective writing techniques. The course will move at an accelerated pace and contain heavy amounts of homework to help prepare students for the AP level Language and Literature courses offered to them their junior and senior years. ***Recommendation: An A or B in English I.***

ENGLISH III **1 Credit**

This class is designed for students to identify and apply a wide range of strategies to comprehend and respond to informational, literary, persuasive, and practical/workplace reading with particular emphasis on literature as representative of the many dimensions of the human experience in its historical and cultural context. Students will continue to use the writing process to compile a collection of transactive, personal, and literary writings over time as well as in on-demand writing situations.

AP ENGLISH LANGUAGE **1 Credit**

This advanced course engages **Juniors** in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. AP English Language emphasizes the expository, analytical, and argumentative writing that forms the basis of academic and professional communication, as well as the personal and reflective writing that fosters the development of writing facility in any context. This course follows the curriculum established by the College Board and prepares students to take the Advanced Placement examination in English Language and Composition. ***Prerequisites: An A or B in English II.***

ENGLISH IV **1 Credit**

This course is designed to assist the student in becoming a lifelong learner. Emphasis is placed on compilation of a writing portfolio, research techniques, and exploration of post high school options as well as development and application of analysis skills of a variety of forms of literature.

AP ENGLISH LITERATURE **1 Credit**

This **Senior** class concentrates on literary analysis and writing. Each novel, poem, play, etc. culminates in writing which focuses on the "tone, satire, and analysis" of the work. A study of grammar is incorporated into the writing process. The National College Board establishes the basic curriculum. Emphasis is placed on writing themes and composition. Along with this are projects based on philosophy and poetry. Research projects are assigned. World literature is surveyed with special emphasis given to English Literature. This course follows the curriculum established by the College Board and prepares students to take the Advanced Placement examination in English Literature and Composition.

FAMILY AND CONSUMER SCIENCE

FACS ESSENTIALS **1 Credit**

(*Grades 9-10)* This comprehensive course provides an opportunity for acquiring basic life skills and guides students to explore and select specific areas for concentrated study. Emphasis is on family, employability skills, adolescent development, introduction to textiles, interiors and design, financial management, challenges of parenting, establishing healthy relationships, and creating a foundation for healthy lifestyles and nutrition. Leadership development will be provided through the Family, Career and Community Leaders of America.

Foods and Nutrition (Prerequisite: FACS Essentials,) **1 Credit**

(Grades 10-12) 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 (FCCLA).

CHILD DEVELOPMENT SERVICES I **1 Credit**

(Grades 10-12) **Only for pre-approved students as this is the capstone course for a career major in Early Childhood Education.** This course provides training for entry-level positions in early childhood education programs. Students study professionalism, employability skills, child growth and development, health, safety and nutrition, learning environments and curriculum, child assessment, program management and evaluation as well as family and community partnerships. Students will earn their Orientation for Early Care & Education Professionals certification. They will also earn their Pediatric Abusive Head Trauma certification. Leadership development will be provided through the Family, Career and Community Leaders of America (FCCLA).

FOREIGN LANGUAGE

SPANISH I **1 Credit**

This course is highly recommended for all students planning to attend college. It features a communication-based curriculum. There is a constant practice of the four language skills (reading, writing, listening, speaking) along with an integrated study of the culture/Arts and Humanities. ***Prerequisite for 8th graders: An A or B in 8th grade English class. Otherwise, for those planning to attend college, this course should be scheduled in as early as possible during your high school career balancing the needs with your other Arts and Humanities electives.***

SPANISH II **1 Credit**

This course is recommended for all students who have completed the Level I course or its equivalent. It builds on the fundamentals developed in the Level I course. There is a constant practice of the four language skills (reading, writing, listening, speaking) along with an integrated study of the target culture/ Arts and Humanities.

SPANISH III **1 Credit**

This course is recommended for the student who has successfully completed Level II or its equivalent, because it will improve skills for CLEP tests and will provide students with experiences to help deal with the demands of college language study. There is more emphasis on reading, but all four skills are practiced along with the study of culture/ Arts and Humanities. ***Prerequisites: An A or B average in previous foreign language classes taken or approval from teacher/ administrator.***

AP SPANISH IV & SPANISH V **1 Credit**

This is a fourth year of study for the student who has successfully completed Level III or its equivalent. It is similar in format to Level III, but it further develops communication skills and adds specific practices to prepare the student for the College Board Advanced Placement Examination and leads to the Commonwealth Diploma. This course also continues the study of the target culture/ Arts and Humanities. AP Foreign Language classes will be offered as a distinct section or stacked with Level IV and V. If they wish, students may take the AP exam after Level IV. Spanish V to be offered in 2020-2021 and will offer a 5th year of Spanish to better prepare students for passing the AP exam. ***Prerequisites: An A or B average in previous foreign language classes taken or approval from teacher/ administrator.***

HEALTH AND PHYSICAL EDUCATION

HEALTH **1 Semester** **½ Credit**

This class is designed to enhance student's coping and decision-making skills utilizing selected health topics and issues, such as healthy lifestyles, substance abuse, nutrition and weight control, accident prevention, community/consumer health, growth and development, personal health, environmental health, marriage and parenthood, stress management, disease process and promoting self esteem.

PHYSICAL EDUCATION **1 Semester** **½ Credit**

This course consists of instruction to enhance the student's benefits from exercise (improved fitness and self-esteem), regular participation (improved health and social benefits), and motor skill development (object manipulation movement concepts), analysis of movement and refinement to be active for life. This course will also consist of instruction on rules and good sportsmanship in various team and individual sports, as well as an overview of the history of dance.

PE II – TEAM SPORTS **1 Credit**

PE II/Team Sports is a continuation from Physical Education I. Students participate in physical conditioning, team sports, individual sports, rules, discussions, game strategy discussions, and the development of sportsmanship. PE II students will also participate and interact with students with disabilities; this course allows students the opportunity to buddy up with other students with disabilities and/or interact daily while participating in game situations. Students will participate in higher-level games (team, dual, and individual), officiating, and guest lectures. Opportunities for leadership training and research products are included. The course is designed to enable students the opportunity to improve their physical, mental, and social health. The focus will be to enhance personal wellness, to provide an atmosphere conducive for activity for a lifetime, to build sportsmanship, to increase and foster mutual respect between students with varying abilities and disabilities, and to develop skills.

BEGINNING STRENGTH & CONDITIONING **1 Credit**

This course is comprehensive, covering all the basic information, skills and behaviors associated with personal fitness and conditioning. Included are scientific principles of cardiovascular fitness, flexibility, muscular strength, muscular endurance, and body composition. Students will also learn the importance of safety precautions when exercising, and how to minimize health risks by maintaining a healthy lifestyle. The course is designed to enable students the opportunity to develop short and long term fitness goals.

ADVANCED STRENGTH & CONDITIONING **1 Credit**

This course is comprehensive, covering all the basic information, skills and behaviors associated with personal fitness and conditioning. Included are scientific principles of cardiovascular fitness, flexibility, muscular strength, muscular endurance, and body composition. Students will also learn the importance of safety precautions when exercising, and how to minimize health risks by maintaining a healthy lifestyle. The course is designed to enable students the opportunity to develop short and long term fitness goals. Advanced Strength & Conditioning is also for students who are serious about developing their bodies through weightlifting. ***Prerequisite: Students who have already earned PEII, Strength & Conditioning credit and/or instructor approval.***

MATH

BASIC ALGEBRA I **1 Credit**

This course is designed for students who have successfully completed Middle School mathematics, yet need extended time in mastering algebraic ideas **(Teacher Recommendation).** Topics will include number systems and theory, numerical and algebraic expressions, linear equations and functions and graphing. Instruction for this course will utilize hands-on learning activities and real-world applications. An introduction to the TI-83/TI-84/DESMOS Graphing Calculator will be a focus.

ALGEBRA I **1 Credit**

This course is designed for students who have successfully completed (grade of C or better) Middle School mathematics. Topics will include linear equations, inequalities, functions, non-linear functions (quadratic, exponential and absolute value) proportional reasoning, sequences and probability. An introduction to the TI-83 Graphing Calculator will be a focus.

PRE-AP ALGEBRA I **1 Credit**

This course is designed for students who have successfully completed 8th Grade Math with an A or Algebra I in 8th grade with an A or B (must have teacher recommendation). Topics will include linear equations, inequalities, functions, non-linear functions (quadratic, exponential and absolute value) proportional reasoning, sequences and probability. An introduction to the TI-83/84 Graphing Calculator will be a focus. ***This is the first class in a mathematics pathway leading to AP Calculus, AP Statistics, or Dual Credit Intermediate College Algebra upon completion of Pre-AP Algebra 2.***

BASIC GEOMETRY **1 Credit**

This course is designed for the non-traditional student who has completed Algebra I (Basic or regular). Topics will include triangles, quadrilaterals, polygons, circles, congruence and similarity, measurement, coordinate geometry and transformations. Emphasis will be placed on real-world applications ***Basic Geometry is recommended for any student who earned a grade of C or D in Algebra I. Any student desiring to take Pre-AP Geometry must either have earned an A or B in 8th Grade Algebra I and must meet an appropriate benchmark score.***

GEOMETRY **1 Credit**

This course is designed for college-bound students that have successfully completed High School Algebra I. Topics will include triangles, quadrilaterals, polygons and circles, congruence and similarity, measurement, coordinate geometry and transformations. ***Basic Geometry is recommended for any student who earned a grade of C or D in Algebra I. Any student desiring to take Pre-AP Geometry must either have earned an A or B in 8th Grade Algebra I and must meet an appropriate benchmark score.***

Pre-AP GEOMETRY **1 Credit**

This course is designed for college-bound students that have successfully completed Pre-AP Algebra I or Algebra I in 8th Grade with an Aor B. Freshmen wishing to take Pre-AP Geometry are required to have an Aor B in BMS Algebra I and must have a minimum score on the entrance exam given by BHS during the summer. Topics will include triangles, quadrilaterals, polygons and circles, congruence and similarity, measurement, coordinate geometry and transformations. ***Basic Geometry is recommended for any student who earned a grade of C or D in Algebra I. Any student desiring to take Pre-AP Geometry must either have earned an A or B in 8th Grade Algebra I and must meet an appropriate benchmark score.***

BASIC ALG. II **1 Credits**

This course is designed for students who have completed Basic Algebra I and Basic Geometry. It is also for students who have completed Algebra I yet need extended time for mastering the concepts. Topics will include graphing, systems of equations, functions, quadratic equations, statistics and probability. Further use of the TI-83 Graphing Calculator is a focus. It will be taught in two years in order to fully cover all content required by the state prior to the end of course exam. One credit will be given for each part.

ALGEBRA II **1 Credit**

This course is designed for college-bound students who have completed Algebra I and Geometry with an A or B. In addition to expanding the mathematical concepts of Algebra I, emphasis will be placed on preparation for study of high-level mathematical abstract thinking skills, the function concept, and the algebraic solution of problems in various content areas. Topics include analyzing equations and inequalities, graphing linear relations and functions, solving systems of linear equations and inequalities, using matrices, exploring polynomials and radical expressions, exploring quadratic functions and inequalities, analyzing conic sections, exploring rational expressions, and exploring exponential functions. If time permits, logarithmic functions and investigating sequences and series will be addressed. TI-83 Graphing Calculator use is fully integrated into this curriculum. ***Basic Algebra II should be taken if student received a C or D in Algebra I and Geometry. Students that score at least 18 on the mathematics sections of an ACT or Practice ACT are recommended to Pre-AP Algebra II.***

PRE-AP ALGEBRA II **1 Credit**

This course is designed for students who completed Pre-AP Geometry. In addition to expanding the mathematical concepts of Algebra I, emphasis will be placed on preparation for study of high-level mathematical abstract thinking skills, the function concept, and the algebraic solution of problems in various content areas. Topics include analyzing equations and inequalities, graphing linear relations and functions, solving systems of linear equations and inequalities, using matrices, exploring polynomials and radical expressions, exploring quadratic functions and inequalities, analyzing conic sections, exploring rational expressions, and exploring exponential functions, logarithmic functions and investigating sequences and series will be addressed. TI-83 Graphing Calculator use is fully integrated into this curriculum. ***Students that score at least 18 on the mathematics sections of an ACT or Practice ACT are recommended to take this class.***

AP STATISTICS **1 Credit**

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This course draws connections between all aspects of the statistical process, including design, analysis, and conclusions. Additionally, using the vocabulary of statistics, this course will teach students how to communicate statistical methods, results and interpretations. Students will learn how to use graphing calculators and read computer output in an effort to enhance the development of statistical understanding.

AP CALCULUS **1 Credit**

This course is designed for students in a wide range of fields such as physics, engineering, astronomy, and business. The goal is to prepare students to score well on the AP exam. Topics are designated by the AP curriculum. Included topics are limits, derivatives and applications, integration and applications, and transcendental functions.

INTERMEDIATE COLLEGE ALGEBRA **1 Credit**

Dual Credit Math 150 through ECTC: Includes selected topics in algebra and analytic geometry. Develops manipulative skills and concepts required for further study in mathematics. Includes linear, quadratic, polynomial, rational, exponential, logarithmic and piecewise functions; systems of equations; and an introduction to analytic geometry. ***Must have an ACT score of 22 and a GPA of at least 2.5.***

CONTEMPORARY MATH **1 Credit**

Fall Semester: Provides an introduction to the skills and understandings necessary for success in college mathematics including linear and absolute value equations and inequalities, linear equations in two variables, polynomials and factoring, exponential and radical expressions, quadratic equations, and systems of two linear equations.

Spring Semester - Dual Credit MAT 146 through ECTC: Serves as a course in quantitative reasoning and problem solving intended for non-science majors. Includes voting methods, finance, population growth, and at least two additional topics chosen from: apportionment, geometry, logic, probability and statistics, graph theory, number theory, game theory, and set theory. ***Must have an ACT score of 19 and a GPA of at least 2.5.***

BUSINESS MATH **1 Credit**

This course introduces students to the mathematical concepts and applications necessary for successful business careers. Topics will include finance charges, cash discounts, commissions, payroll, tax deductions, depreciation, book value, compound interest, net present value, annuities, statistics, and graphs. ***This class is only available for 12th Grade students. It is not designed for students intending to pursue a college degree.***

MONEY SKILLS **1 Credit**

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. ***This class is only available for 11th Grade students. It is not designed for students intending to pursue a college degree.***

PERSONAL FINANCE **1 Credit**

The goal of the Personal Finance course is to help students to become financially responsible, conscientious members of society. To that end, this course develops student understanding and skills in areas such as money management, budgeting, financial goal attainment, the wise use of credit, insurance, investments, and consumer rights and responsibilities. Throughout the course, students also examine contemporary, real-world ethical dilemmas that individuals commonly encounter when managing their personal finances. T***his class is only available for 11th Grade students. It is not designed for students intending to pursue a college degree.***

MEDIA

YEARBOOK **1 Credit**

This elective English course is available to juniors and seniors. This course is a workshop course focusing on transactive writing, which supplies knowledge of conventions of print materials (i.e. reviews, editorial, articles) as students produce a monthly school magazine. Students may take this course for 2 years for a maximum of 2 credits. After-school service hours are required for completion. ***Prerequisite: English teacher must recommend for class. Teacher signature required.*** Application due to Mrs. Flanagan by May1.

MUSIC

BEGINNING CHORUS **1 Credit**

The purpose of this course is to build a foundation in basic vocal production techniques and part singing. The content includes, but is limited to, development of basic musicianship skills, including choral performance techniques, vocal tone production, musical literacy, and music listening. Students will explore the entirety of their vocal range and gain more control of their voice. Students will use both pop music and traditional choral music to accomplish this goal. **Students will be expected to participate in group rehearsals and performances beyond the regular class time since this course is performance-oriented**. These activities may include section and group rehearsals after school hours, concerts for school and community, festivals, clinics, and honor group participation. This class is open to 8th and 9th grade students only.

MIXED CHORUS (aka Bardstown Singers) **1 Credit**

The purpose of this course is to continue the development of basic musicianship skills, including choral performance techniques, vocal tone production, musical literacy, and music listening. Students will explore the entirety of their vocal range and gain more control of their voice. Students will use both pop music and traditional choral music to accomplish this goal. **Students will be expected to participate in group rehearsals and performances beyond the regular class time since this course is performance-oriented**. These activities may include section and group rehearsals after school hours, concerts for school and community, festivals, clinics, and honor group participation. This class is open to all 10th-12th grade students.

ADVANCED CHORUS (aka Tiger Chorale) 1 Credit

This course is designed for those who show high interest in vocal music and provides opportunities for students to develop their music potential through singing in a choral ensemble. Study includes the care and cultivation of a beautiful tone, aesthetic understanding, the ability to read music with fluency, the polishing of performance skills, team spirit, and responsible rehearsal habits. Students will have opportunities to experience the spontaneity of improvisation and the creative process of composition. Students will hone listening skills and their ability to analyze and critique music and music performance. Attention will also be given to relating their music experiences to the time and culture of the pieces they study, as well as to contemporary society. Students will also participate in multiple performances outside of the traditional school concerts. **Students will be expected to participate in group rehearsals and performances beyond the regular class time since this course is performance-oriented**. ***Prerequisite for the course is an audition.*** **Rising Freshman who wish to audition must either 1. have taken voice lessons during their 8th grade year OR 2. participated in KMEA or ACDA All-State during Middle School.**

BAND 1 Credit

We play instruments every day in this class. You MUST be able to play an instrument. You MUST be in marching and pep bands. This class REQUIRES events OUTSIDE of the school day (evenings and weekends). Students and parents are required to attend the Parent-Student-Teacher meeting after spring break (or schedule a private meeting) in order to stay enrolled in the course.

STRING ORCHESTRA 1 Credit

String Orchestra courses develop students' abilities to play string instruments, covering a variety of orchestral literature styles. Course covers the structures, humanities, purposes, processes, and interrelationships of the arts as they apply to music. All participants must have prior experience in a string orchestra. Any brand new students must audition ahead of time.

SCIENCE

IPC (Introduction to Physics and Chemistry) 1 Credit

Students develop conceptual understandings of the physical science content required by the state of Kentucky using scientific inquiry, modeling, and engineering design. Students will learn about motions and forces, conservation of energy and energy transfer, the relationship between energy and forces, wave properties, electromagnetic radiation, structure and properties of matter, chemical reactions, nuclear processes, and types of interactions. This course is NOT designed for students interested in pursuing certain careers (refer to the Science Course Selection Guide).

PRE-AP PHYSICS 1 Credit

Students develop a conceptual and Algebra I based understanding of physics content through the use of scientific inquiry, modeling and the engineering design process. They experience concepts such as motions and forces, conservation of energy and energy transfer, the relationship between energy and forces, wave properties, and electromagnetic radiation as required by the state of Kentucky They will also experience simple circuits, magnetism, and optics to prepare them to take AP Physics. This course is designed for students who want to pursue certain careers (refer to the Science Course Selection Guide). **A student who completes PreAP Physics must enroll in PreAP Chemistry the following year.**

BIOLOGY I 1 Credit

Biology I is a life sciences course that challenges students with a variety of activities that helps them achieve the objectives of each unit of work. These units will include information concerning the cell and molecular basis of heredity, biological change, the independence of organisms, matter, energy and organization in living systems and the behavior of organisms. ***Note: A student will choose between Biology I and Pre-AP Biology I.***

PRE - AP BIOLOGY I 1 Credit

Pre-AP Biology is an accelerated course that meets the Kentucky core content for Biology and prepares students to pursue further study in AP Biology. This course will include information concerning the cell and molecular basis of heredity, biological change, the independence of organisms, matter, energy and organization in living systems and the behavior of organisms presented at a faster pace and greater complexity than Biology I. Students will be expected to do significant amounts of reading outside of class. ***Recommendation: An A or B in 9th grade science course and English I. * Please note: A student will choose between Biology I and Pre-AP Biology I.***

PRE- AP CHEMISTRY I **1 Credit**

Students develop an understanding of chemistry content through the use of scientific inquiry, modeling, and the engineering design process. They experience concepts such as structure and properties of matter, chemical reactions, nuclear processes, types of interactions as as required by the state of Kentucky. They will also experience the mole concept, kinetics, equilibrium, and simple thermodynamics to prepare them to take AP Chemistry. This course is designed for students who want to pursue certain careers (refer to the Science Course Selection Guide). **This course must be taken in 10th grade if PreAP Physics was taken in 9th grade.**

ENVIRONMENTAL SCIENCE **1 Credit**

Students develop a conceptual understanding of environmental science as required by the state of Kentucky through the use of scientific inquiry, modeling, and the engineering process. This course will also incorporate the required space science. Students experience Earth and space concepts such as the Universe, history of Planet Earth, the systems of the Earth, weather and climate, natural resources, hazards, and human impacts on Earth systems. This course may be taken in 8th grade for high school credit by students who meet the admissions requirements and are interested in pursuing certain careers (refer to the Science Course Selection Guide).

AP ENVIRONMENTAL SCIENCE **1 Credit**

AP Environmental Science provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. Able and motivated students are provided with the opportunity to pursue college-level environmental science studies while still in high school. This course will add to and expand upon the knowledge gained in Biology, Chemistry, History, and English by making use of college level textbook and completing laboratory investigations that will equate with the kinds of labs experienced in college students. ***Recommendation: An A or B in Biology I or approval of instructor.***

AP BIOLOGY **1 Credit**

AP Biology is an upper level course that elaborates the concepts that will include evolution, biochemistry, energetics, cell organization, human genetics and recombinant DNA through the processes of lecture, laboratory investigations and class discussions. Able and motivated students are provided with the opportunity to pursue college-level biological studies while still in high school. This course will add to and expand upon the knowledge gained in Biology I by making use of college level textbook and completing laboratory investigations that will equate with the kinds of labs experienced in college students. ***Recommendation: An A or B in PreAP Biology I and Chemistry I or approval of instructor.***

AP CHEMISTRY/AP CHEM LAB **2 Credits**

This is a rigorous second year chemistry course to be taken upon the successful completion of Algebra II and Pre-AP Chemistry I. The advanced placement curriculum is designed to be the equivalent of a first year college chemistry course and meets the objectives to be tested by the national AP Chemistry Exam in May. Strong math skills are needed to be successful in this course. Topics to be covered include reactions, gas laws, kinetics, equilibrium, models of chemical bonding, periodic properties, quantum theory, acids/bases, electrochemistry, thermodynamics, states of matter, solutions, and qualitative analysis. ***Recommendation: An A or B in Algebra II (may be taken concurrently) and Pre-AP Chemistry and approval of the instructor. AP Chemistry LAB to be taken concurrently.***

CHEM 130/135 **1 Credit**

This is a dual credit course with lab (4 hours total) general education chemistry course. It is often equivalent to the chemistry required in nursing, dental hygiene, and other allied health programs. **AP Chemistry should be taken for all other health care professions and engineering**. Presents the elementary principles of general, organic and biological chemistry. The lab reinforces concepts covered in CHE 130 and introduces basic laboratory techniques, methods, and instrumentation through selected experiments pertaining to chemical and physical properties, quantitative analysis, qualitative analysis, and the reactions of organic and biomolecules **Prerequisites: Completion of PreAP Chemistry. ACT English score of 18, ACT Math score of 19, ACT Reading score of 20, 2.5 GPA**

AP PHYSICS 1 **1 Credit**

The AP Physics 1 class is a non-calculus based course that is designed to cover the same concepts taught at the beginning college level physics course. It uses inquiry based instruction, vector analysis, technology, and mathematical calculations to help students develop an understanding of kinematics, dynamics, and wave theory (mechanical and electromagnetic), and electricity. A strong math background is required along with math teacher approval. **Physics is required by most colleges for Engineering and any medical majors.** ***Recommendation: Algebra 2 with a grade of A or B+.***

HUMAN ANATOMY **1 Credit**

This course will include a yearlong program of intense human anatomy and physiology studies. The areas covered will include, medical terminology, basic chemistry, cell and tissue structure, and the 11 systems of the human body (integumentary, skeletal, muscular, nervous, endocrine, circulatory, lymphatic, digestive, respiratory, urinary and reproductive). Laboratory work will be required. ***Recommended: A or B in PreAP Biology or A in Biology I. You may not have failed previous science courses and be enrolled in anatomy.***

STUDY SKILLS (SCIENCE) **1 Credit**

This will be a student-driven course that will incorporate learning about a science content area of interest to the student along with an engineering project of their course.Time would be devoted to research, design and lab components. Students enrolled in this class will be expected to participate in at least one Science Olympiad competition during the school year. This can be extracurricular or intramural.This course may be repeated yearly as the events change each year.

SOCIAL STUDIES

WORLD CIVILIZATION **1 Credit**

World Civilization is a required class for all Bardstown High School sophomores. The course is a survey course that reviews civilizations before 1500 AD but focuses mainly on the world since 1500. This class will cover the culture and society of civilizations and students will observe, analyze and interpret human behaviors, social gatherings, and institutions to better understand people and the relationships among individuals and groups.

AMERICAN GOVERNMENT & HISTORY **1 Credit**

This course is the study of the government of the United States, local, and other political systems; recruitment; roles and decision making; official duties; executive, legislative, and judicial government branches. Topics will also include political institutions and behavior; public policy; social and economic change; diplomacy and international relations; and cultural and intellectual developments.

U.S. HISTORY **1 Credit**

This course should serve as a capstone to the study of America's history in grades 5 and 8. After a brief review, the focus will be on the Reconstruction period to the present, looking at the forces that shaped and continue to shape political, economic, and social institutions and the impact of those forces on the development of the United States in the twentieth century.

AP U.S. HISTORY **1 Credit**

This advanced course is a chronological interdisciplinary survey of the history, culture, sociology, literature, art, music, and philosophy of America. Students will encounter an in-depth study of historical and literary periods, enabling them to gain a better perspective of the universal human condition and further understanding man's role in the world. Through the course, students will continue to build communication skills, focusing on the development of longer written compositions (including a writing portfolio) and oral presentations. In addition to reading and writing activities, students will prepare longer creative thesis projects based upon individual interests as well as participate in six hours of a community service project. ***Prerequisites: An A or B in English II and World Civilization.***

AP GOVERNMENT **1 Credit**

This college level course will focus on constitutional underpinnings of U.S. government; political beliefs and behaviors; political parties, interest groups, and mass media; institutions of national government (the Congress, the presidency, the bureaucracy, and the federal courts); public policy; and civil rights and civil liberties. ***Prerequisite: Students must have completed AP English Language and/or AP U.S. History or be taking one of these courses concurrently with this class.***

AP PSYCHOLOGY **1 Credit**

This course available to Seniors introduces the field of psychology and its basic concepts, theories, research methods, and contributions to the understanding of human behavior. Topics include the nervous system, perception, motivation, learning and memory, social behavior, personality, developmental, and clinical psychology. The past and current theories and contributions of major psychologists are explored.

AFJROTC

AIR FORCE Junior ROTC

AFJROTC is an exciting program that supplements academics with a variety of application activities that offer teambuilding, leadership, confidence building and community service opportunities for high school students. Each course includes a blend of academics in Aerospace Science (40%), Leadership Education (40%) and Wellness/Physical Fitness (20%). All JROTC classes are year-long classes. Although students are not required to enter the military, if they choose to do so, they will enlist at a higher rank/pay grade after being awarded a Certificate of Completion for AFJROTC and meeting other qualifications for service.

580134 - AFJROTC 1 - Introduction to JROTC

Credits: 1

Grade Level: 9-12 (1st Year Cadets)

Description: The Leadership Education component introduces cadets to the AFJROTC program providing a basis for progression through the program. It contains sections on cadet and Air Force organizational structure; uniform wear; customs and courtesies; health and wellness; fitness; individual self-control; and citizenship. The Aerospace Science component is an aviation history course focusing on the development and impact of flight throughout the centuries. The AFJROTC Health and Wellness Program is integrated through development of personal wellness goals, a personal wellness activity plan, weekly physical training, and a quarterly physical training evaluation.

580135 - AFJROTC 2: Global Studies

Credits: 1 Social Studies Credit

Grade Level: 10-12 (2-4th Year Cadets)

Description: The Aerospace Science Component is a multidisciplinary course that introduces students to various regions of the world from a geographic, historical and cultural perspective. The course provides increased international awareness and insight into foreign affairs that allows a better understanding of other cultures and knowledge of America's interests and role in the world. Geopolitical issues such as terrorism, economics, politics, military issues, religion, environmental concerns, human rights, and other issues will be examined. The AFJROTC Health and Wellness Program is integrated through development of personal wellness goals, a personal wellness activity plan, weekly physical training, and a quarterly physical training evaluation. Students enrolled in this course will receive a Social Studies credit toward graduation.

580136 - AFJROTC 3: Life Skills and Career Opportunities / Survival

Credits: 1 Financial Literacy Credit

Grade Level: 11-12 (3rd and 4th Year Cadets)

Description: The Leadership Education component, Life Skills and Career Opportunities, is designed to prepare students for life after high school. Students will learn how to become a more confident financial planner and to chart an education and career course for the future. This component will allow them to explore career paths and understand requirements that they will need to be successful at work and in life. Students will complete the National Endowment for Financial Education program to receive a Financial Literacy credit toward graduation…a certificate for successful completion of this course will be awarded. The Aerospace Science component provides training in skills, knowledge and attitudes necessary to successfully perform fundamental tasks needed for survival. Survival also presents "good to know" information that would be useful in any situation. The AFJROTC Health and Wellness Program is integrated through development of personal wellness goals, a personal wellness activity plan, weekly physical training, and a quarterly physical training evaluation.

580136 - AFJROTC 3: Life Skills and Exploration of Space

Credit: 1 Financial Literacy Credit

Grade Level: 11-12 (3rd and 4th Year Cadets)

Description: The Leadership Education component, Life Skills and Career Opportunities, is designed to prepare students for life after high school. Students will learn how to become a more confident financial planner and to chart an education and career course for the future. This component will allow them to explore career paths and understand requirements that they will need to be successful at work and in life. Students will complete the National Endowment for Financial Education program to receive a Financial Literacy credit toward graduation…a certificate for successful completion of this course will be awarded. The Aerospace Science component explores the space environment, spaceflights, the human experience in space and the latest advanced in space technology. Scenarios, hands-on activities and technology enrichment activities are used throughout the course. A supplemental STEM program, StellarXplorers is also included. Scenario application exercises use computer-based simulation program called Systems Tool Kit and students can earn Industry Certifications in Systems Tool Kit operations through Analytical Graphics Incorporated

580137 - AFJROTC 4: Management of the Cadet Corps

Credits: 1

Grade Level: 11-12 (3rd-4th Year Cadets)

Description: The Aerospace Science component offers hands-on experience for cadets to put the theories of previous leadership courses into practice. Planning, organizing, coordinating, directing, controlling, and decision-making will be done by the cadets. They will also put into practice their communication, decision-making, personal-interaction, managerial, and organizational skills. The Leadership Education component may be a selective blend of courses. Principles of Management provides exposure to the fundamentals of management. The Introduction to AFJROTC will be revisited to emphasize the history, mission, and organization of AFJROTC along with the Cadet Guide Leadership Education Elective that outlines how this unit implements the AFJROTC program. Finally, select units from the leadership elective, Unlocking Your Potential, will also be addressed. The AFJROTC Health and Wellness Program is integrated through development of personal wellness goals, a personal wellness activity plan, weekly physical training, and a quarterly physical training evaluation.
Prerequisite: Students must have completed AFJROTC 1

P2P/ILP RELATED COURSES

Teaching and Learning Career Pathway-(11-12 grade)

This career pathway allows aspiring P-12 Educators to begin taking educator preparation courses while in high school. The student will take three dual credit courses through the University of Louisville. Up to 9 hours that are applicable to teaching all grade levels are available. The student must have an 18 in Reading on the ACT and a 2.5 GPA to enroll in these courses. They qualify for the Work Ready Dual Credit Scholarship.

EDTP 201 The Teaching Profession Fall 2020 3 hours

Description: Provides opportunities to survey the field of education through the study of educational theories, field experiences, and evaluation of education as a career. Some fieldwork required during class hours.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

EDTP 215 Foundations of Instruction Spring 2021 3 hours

Description: This course introduces pre-service teachers to the planning and preparation skills needed to be an effective classroom teacher. These skills include: identifying learning goals and objectives based upon standards-based curriculum; designing learning experiences with developmentally appropriate instructional strategies; creating a variety of assessments to gauge learning and motivate students to learn; managing a range of students, materials, and classroom activities to honor students' diversity. This course is a prerequisite to admittance to the Teacher Education Program.

EDTP 107 Human Development and Learning Fall 2021

Description: Introduction to the basic principles of human development and learning as applied to home and school settings of children from birth to adolescence.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

WKU DUAL CREDIT CLASSES (ONLINE) 1 Credit

(Grades 11-12 ONLY) This class offers an opportunity to juniors and seniors who have met their ACT Benchmark scores in English (18), Math (19), and Reading (20) to take a college course online for BOTH college and high school credit. BHS has partnered with Western Kentucky University to offer this opportunity to students at a SIGNIFICANT savings over the traditional cost of college classes. Students will be given a period with access to a computer and be expected to work at their own pace and independently with the guidance of the WKU professor. All classes are done exclusively online and will follow the syllabus and university requirements of WKU.

FMD PEER TUTORING 1 Credit

May lead to Internship or Exceptional Work Experience
Peer tutoring is a class that 11th and 12th grade students may take which allows interaction between regular education students and special education students. Emphasis is placed on all students learning together. Peer tutoring can be a means of creating natural supports for students with disabilities and true, lasting friendship between typical students and students with disabilities. The assignments are meant to evoke beliefs about the abilities and capabilities of students with moderate and severe disabilities. A completed portfolio piece is required in this class for use in the senior writing portfolio. ***Prerequisite: Juniors with a minimum of 2.75 GPA and 12 credits; Seniors with minimum of 2.75 GPA and 19 credits. Priority granted to students who have completed a CTE pathway.***

ELEMENTARY TUTORING **1 Credit**

May lead to Internship or Exceptional Work Experience

This course is designed to allow students to experience teaching and working with elementary age children. The students are assigned to an elementary classroom and have defined roles for the entire year. A completed portfolio piece is required in this class for use in the senior writing portfolio. ***Prerequisite: Juniors with a minimum of 2.75 GPA and 12 credits; Seniors with minimum of 2.75 GPA and 19 credits.Priority granted to students who have completed a CTE pathway.***

**Students will earn grades for Elementary and Peer Tutoring. Students are required to submit weekly reflections and must also complete writing assignments throughout the course.*

HIGH SCHOOL ASSISTANTS – MUST Have a Minimum 2.75 GPA **1 Credit**

May lead to Internship, Priority granted to students who have completed a CTE pathway.

*Office Assistant (*11th & 12th Grades ONLY* with office approval –2.75 GPA; 95% attendance)

*Teacher Assistant (Available to Juniors with a minimum 2.75 GPA and 12 credits; Seniors with minimum 2.75 GPA and 19 credits.

*Media Center Assistant (Available to Juniors with a minimum 2.75 GPA and 12 credits; Seniors with minimum 2.75 GPA and 19 credits.

95% attendance required) ***These classes will be assigned a grade based on Pass/Fail only.***

****TEACHER APPROVAL / INITIAL IS REQUIRED BEFORE SIGNING UP FOR THESE CLASSES****

LEARNING LAB **1 Credit**

Learning Lab is designed to introduce and reinforce specific study skills leading to student success. This course is available to grades 10 – 12 and offered on a Pass/Fail basis only.

INTERNSHIPS/APPRENTICESHIPS/CO-OP WORK-BASED LEARNING **1-3 Credits**

All work-based learning must be in alignment with the students ILP/Career Plans and the student must be in a career pathway.

Priority granted to students who have completed a CTE pathway.

WORKPLACE EXPERIENCE **1 Credit**

Pre-requisite and application required. See counseling office for application.

This course is designed for seniors who are interested in paid based learning. Seniors must have a job of at least 10 clock hours per week in a salaried position which provides work experience. Daily check out is required. Students must be passing and in good standing in all other classes taken at BHS and must have at least 95% attendance in order to participate. Check stubs must be submitted monthly for verification of employment. A completed synopsis of the work experience must be submitted for each semester. This course is offered on a Pass/Fail basis only. Job placement will take place during the last period or the last two periods of the day. Seniors must have a job at the beginning of the school year to enroll in this course.

ACTIVITIES/CLUBS/SPORTS @ BHS

ACADEMIC TEAM

ARCHERY

BASEBALL

BASKETBALL

BEST BUDDIES PROGRAM

BOWLING CLUB

BOYS TO MEN

CHEERLEADING

CHESS CLUB

CHORUS

CROSS COUNTRY

DRAMA

EDUCATORS RISING

FBLA (Future Business Leaders of America)

FCA

FCCLA (Family Career & Community Leaders of America)

FEA (Future Educators of America)

FOOTBALL

FUTURE PROBLEM SOLVING

GOLF

KEY CLUB

MARCHING BAND

NATIONAL HONOR SOCIETY

PEP BAND

PEP CLUB

SCIENCE OLYMPIAD

SOCCER

SOFTBALL

SPECIAL OLYMPICS

SPEECH

STUDENT COUNCIL

SWIMMING

TSA (Technology Student Association)

TENNIS

TRACK

VOLLEYBALL

WRESTLING

YEARBOOK

Y-Club

YOUTH COUNCIL