

CONNER HIGH SCHOOL
2011-2012
COURSE DESCRIPTION BOOK



"SHOWING COUGAR PRIDE FOR 41-YEARS"
Est. 1970

Mission Statement

The mission of Conner High School is to assist students in the transition from adolescence to adult life. Providing a rigorous program of study will prepare all students for post-secondary options. Encouraging diversity of thought and skills development facilitates students to become life-long learners. We are steadfast in our dedication to building strong relationships with students, parents, community, and faculty to make education relevant to students' personalized needs.

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NONDISCRIMINATION POLICY

All programs of study and all individual course offerings are equally available and open to students regardless of their race, color, creed, sex, or natural origin.

INTRODUCTION

This handbook contains information to help students plan an appropriate course of study. Students are encouraged to seek additional information from individual teachers concerning courses. Individual planning is necessary since needs and interests vary. Final course selection is the responsibility of each student. Parental approval is requested. Teachers, counselors and administrators are willing to help you.

FEES

A number of years ago the state legislature cut the educational budget. Funds that were to be used for supplies and materials were greatly reduced. Rather than letting the quality of education deteriorate, the Boone County Board of Education approved a plan that allows the schools to collect class fees. The budget cuts have never been restored by the state. Every year the policy on fees is reviewed and changes may or may not be made. Fees for the 2011 – 2012 school year will be a \$35.00 general fee and a \$ 15.00 technology fee and are subject to change by the Board of Education). There are a few classes where an additional fee is collected.

BOOK RENTALS: \$8.00 PER CLASS PER YEAR

The state legislature in the past has provided money to schools in order to buy class textbooks. They stopped providing this money a number of years ago. The books that were provided free to students are now purchased by the district. Rather than have students buy their textbooks, the state has passed legislation that allows students to rent these textbooks. The maximum fee is \$8.00 per class per year.

Any course offered at Conner High School may be canceled due to staffing conflicts or limited equipment. Any fees are subject to change and board approval.

INDIVIDUAL LEARNING PLAN

Kentucky's minimum high school graduation requirements include the expectation that all students will develop and follow an Individual Learning Plan (ILP) which emphasizes career development. Students will be encouraged to plan a sequence of academic and technical courses that will provide them with an opportunity to develop academic and technical skills based on their career goals. Students will begin to develop their ILPs in the 6th grade and implement and revise it throughout high school.

DUAL ENROLLMENT PROGRAM

Juniors and Seniors at Conner High School are eligible to participate in Dual Enrollment through Northern Kentucky University or Thomas More College. This allows students to earn high school credit and college credit simultaneously. Students participating through Northern Kentucky University can take courses through the School Based Scholars Program on Conner High School's campus or in a class located on NKU's campus. NKU requires a MINIMUM 3.25 GPA and a 18 on the PLAN or 20 ACT for admission. Thomas More College offers Early Admission classes on campus; a MINIMUM 3.5 GPA is required in all core subjects. All Dual Enrollment classes are weighted on a 1.08 index.

College Advanced Large Animal Science AGR 133 - 3 College Credit Hours with a passing exam grade-Fee to Murray State University \$100.00

These courses count as a 4th Honors Science Credit. Students who successfully complete these courses and pass the exit exam, earn 3 Murray State University College Credits. On-line lectures cover all aspects of the large animal industry from Mad Cow disease, reproduction and nutrition to genetic engineering. Students must have approval of the Agriculture Department to attend this class.

GRADING SCALE

| | | | | | |
|----|--------------|----|-------|----|-------|
| A | 96-108 | A- | 94-95 | | |
| B+ | 92-93 | B | 89-91 | B- | 87-88 |
| C+ | 85-86 | C | 80-84 | C- | 78-79 |
| D+ | 76-77 | D | 72-75 | D- | 71-70 |
| F | 69 and Below | | | | |

| Index | Academic | Honors | AP |
|---------------|----------|--------|-------|
| Numeric Score | 1.0 | 1.04 | 1.08 |
| 108 | | | 5.0 |
| 107 | | | 4.875 |
| 106 | | | 4.75 |
| 105 | | | 4.625 |
| 104 | | 4.5 | 4.5 |
| 103 | | 4.375 | 4.375 |
| 102 | | 4.25 | 4.25 |
| 101 | | 4.125 | 4.125 |
| 100 | 4.0 | 4 | 4 |
| 99 | 4 | 4 | 4 |
| 98 | 3.9 | 3.9 | 3.9 |
| 97 | 3.8 | 3.8 | 3.8 |
| 96 | 3.7 | 3.7 | 3.7 |
| 95 | 3.6 | 3.6 | 3.6 |
| 94 | 3.5 | 3.5 | 3.5 |
| 93 | 3.4 | 3.4 | 3.4 |
| 92 | 3.3 | 3.3 | 3.3 |
| 91 | 3.2 | 3.2 | 3.2 |
| 90 | 3.1 | 3.1 | 3.1 |
| 89 | 3.0 | 3 | 3 |
| 88 | 2.9 | 2.9 | 2.9 |
| 87 | 2.8 | 2.8 | 2.8 |
| 86 | 2.7 | 2.7 | 2.7 |
| 85 | 2.6 | 2.6 | 2.6 |
| 84 | 2.5 | 2.5 | 2.5 |
| 83 | 2.4 | 2.4 | 2.4 |
| 82 | 2.3 | 2.3 | 2.3 |
| 81 | 2.2 | 2.2 | 2.2 |
| 80 | 2.1 | 2.1 | 2.1 |
| 79 | 2.0 | 2 | 2 |
| 78 | 1.9 | 1.9 | 1.9 |
| 77 | 1.8 | 1.8 | 1.8 |
| 76 | 1.7 | 1.7 | 1.7 |
| 75 | 1.6 | 1.6 | 1.6 |
| 74 | 1.5 | 1.5 | 1.5 |
| 73 | 1.4 | 1.4 | 1.4 |
| 72 | 1.3 | 1.3 | 1.3 |
| 71 | 1.2 | 1.2 | 1.2 |
| 70 | 1.1 | 1.1 | 1.1 |

GRADUATION REQUIREMENTS

| | | |
|----|---|--|
| 30 | Total Credits for Graduation | |
| 17 | Required Credits | |
| 4 | 5 | Required English Credits: English I, II, III, IV |
| 3 | Required Math Credits: Algebra 1A, Algebra IB, Algebra II, Geometry | |
| 3 | Required Science Credits: Students need to be enrolled in a science course freshman, sophomore and junior year. The courses required for graduation are: integrated science, biology and chemistry. | |
| 3 | Required Social Studies Credits: World Geography, World Civ. and US History | |
| 1 | Required Credits: Health /PE Credit | |
| 1 | Required Credit: 21 st Century Skills Class | |
| 1 | 2012 Class ONLY. Must have Fine Arts Credit. | |

**GRADUATION REQUIREMENT
COMMONWEALTH DIPLOMA GRADUATION REQUIREMENT**

- AP Eng Lit
- AP Math or Science
- AP World Language
- 1 of their choice
- Students must successfully complete AP courses with a "C" or better and must take the AP exam in 3 of the 4 courses.

*******ADVANTAGES*******

- Personal Achievement
- If student gets a composite score of 8+ on 3 exams, the cost of 3 exams will be reimbursed.

REQUIREMENTS FOR GRADE LEVEL PLACEMENT

Prior to August 1st of the upcoming school year in order to be considered:

| | |
|-----------|--|
| Sophomore | 7 credits (successfully completed at the high school) |
| Junior | 14 credits (successfully completed at the high school) |
| Senior | 22 credits (successfully completed at the high school) |

| | Minimum High School Graduation Requirements (Beginning with the Class of 2012) | | Career & Pre-College Curriculum Requirements | | Commonwealth Diploma Requirements | |
|---------------------------------------|---|---------|---|-----------------------------|---|---------|
| SUBJECT | Recommended Courses | Credits | Recommended Courses | Credits | Recommended Courses | Credits |
| Language Arts | English I, II, III, IV (To include the content strands of reading, writing, speaking, listening, observing, inquiry, conventions, analysis, and using technology as a communication tool. Language arts shall be taken each year of High School.) | 4 | <ul style="list-style-type: none"> English I, II AP Lang & Comp A & B AP Lit & Comp A & B | 4 | <ul style="list-style-type: none"> English I, II, III, IV AP English | 4 |
| Social Studies | Credits to include World Geography and World Civilization U.S. History. The content strands of historical perspective, including U.S. History, Geography, Economics, Government and Civics, and Cultures and Societies. | 3 | <ul style="list-style-type: none"> AP Human Geography AP European History AP U.S. History AP Psychology AP US Govt. & Politics | 3 | Same as High School | 3 |
| Mathematics | Algebra IA & B, Geometry, Algebra II and one Math Elective. Pre-Algebra shall not be counted as one of the five required Mathematics credits for high school graduation but may be counted as an elective. Mathematics shall be taken each year of High School. | 5 | <ul style="list-style-type: none"> Algebra I A & B Algebra II Accelerated Geometry Accelerated AP Calculus AP Statistics | 5 | <ul style="list-style-type: none"> Algebra I, II Geometry one AP Mathematics or AP Science. | 3 |
| Science | Credits to include Integrated Science, Biology and Chemistry. Science must be taken each year grades 9-11. Credits shall incorporate lab-based scientific investigation experiences and include the content strands of Integrated Science, Biology, and Chemistry. | 3 | <ul style="list-style-type: none"> Honors Integrated Science Honors Biology Honors Chemistry Physics Anatomy AP Chemistry AP Biology | 4 | <ul style="list-style-type: none"> Biology I Chemistry I Physics I and one elective and one AP Mathematics or AP Science. | 3 |
| Health/PE | Must be taken as a Freshman | 1 | Same as High School | 1 | Same as High School | 1 |
| 21st Century Skills | Should be taken as a Sophomore, Junior or Senior | 1 | Same as High School | 1 | Same as High School | 1 |
| World Language | N/A | 0 | <ul style="list-style-type: none"> Latin I-VI Spanish I-IV Spanish AP German I-VI Credits required or demonstrated competency (effective fall 2004) | 2 | One AP Course selected from Spanish, German, Latin or French (taking AP exam requires 4 units of French, German or Spanish and 3 units of Latin.) | |
| Electives | Academic and career interest standards-based learning experiences (to include four (4) standards-based learning experiences in an academic or career interest based on student's Individual Learning Plan; and Demonstrated performance based competency in technology. | 12 | 11 rigorous; one or more courses that develop computer literacy strongly recommended | 9 | Same as High School | |
| Arts & Humanities | <u>Class of 2012 ONLY</u> . Must complete a Visual or Performing Arts Course. | 1 | Visual or Performing Arts Course | 1 | Same as High School | |
| Total | | | | 17 required; 13 elective | <p>Successful completion of at least 22 approved units of credit, including all the Pre-college Curriculum Requirements.</p> <p>Successful completion of at least four AP courses with a grade of C or better. Completion of AP exams in at least three of four AP courses.</p> | |

the school. They will be challenged to capture moments through photographs that capture their client (school) well. Simultaneously, the student will be pushed to achieve a fine art quality of work that will be exhibited.

Photography IV

Course # 1519 Credit: 1

Grade Level: 9 – 12

Prerequisite: Successful completion Introduction to Art (Visual Art), Photography I, II, III and it is a requirement to own a digital camera.

Fee: \$15

Students will develop and create their own photography business. They will acquire their own clients while still producing a professional grade portfolio. They will exhibit their artwork, but develop a clear business plan.

Sculpture I

Course # 1528 Credit: 1

Grade Level: 9-12

Prerequisite: Successful completion of Visual Arts.

Fee: \$15

Sculpture I is a course where students begin to understand how to execute a 2 dimensional idea and create it into a 3 dimensional form. A variety of materials are used to help develop and allow students to explore the options of sculpture. Projects are open ended assignments that push self exploration and problem solving skills. Students work in groups and individually.

Sculpture II

Course # 1529 Credit: 1

Grade Level: 9-12

Prerequisite: Successful completion of Visual Arts and Sculpture I.

Fee: \$15

Students are allowed more creative license in Sculpture II. They have the skill set from Sculpture I to understand their strengths and they will be pushed to exceed their expectations. Projects are similar to Sculpture I, but have differences to match the student's skill level. The materials used will still be a variety, allowing the student a chance to explore all their options.

Sculpture III

Course # 1665 Credit: 1

Grade Level: 9-12

Prerequisite: Successful completion of Visual Arts and Sculpture II.

Fee: \$15

Sculpture I and II were more exploratory studies, in Sculpture III students are able to choose a medium or style to concentrate on. Once the student researches and understands the basics of the chosen medium or style, then the exploration will begin. This is a much more concentrated course, allowing the student to become an expert in their sculptural field.

Sculpture IV

Course # 1667 Credit: 1

Grade Level: 9-12

Prerequisite: Successful completion of Visual Arts and

Sculpture III.

Fee: \$15

This is the final Sculptural course. The concentration will be on developing a solid portfolio of artwork. The student will create their own line of sculptures that will then be displayed in the community. This is a very independent course, with the student taking leadership on what their subject matter will be and where they will display it.

ARTS & HUMANITIES/MUSIC

Film - Intro To

Course # 1177

Credit: 1

Grade Level: 10-12

Prerequisite: None

This course is designed to introduce students to the critical study of film. Through study of selected films and readings, lectures, class discussion, and written assignments, the students will learn to recognize and analyze film language (editing, cinematography, sound, special effects, etc.). By the end of the course, students will discover the many ways films produce meaning and should be able to demonstrate command of these basic skills to critically interpret those meanings through deep analysis.

Women's Choir A (Fall)

Course # 1577

Credit: 1

Grade Level: 10–12

Prerequisite: Both courses must be taken consecutively in the same year (Women's Choir A & B).

Women's Choir is an elite choral group consisting of approximately forty (40) members. Music Theory, Literature, History, Appreciation, and Vocal Production are taught. Regular attendance and attendance at all performances are required to assure credit. Membership is by audition only and focuses on musical ability and experience. Written permission from the choir director is required to sign up for this class.

Women's Choir B (Spring)

Course # 1590

Credit: 1

Grade Level: 10-12

Prerequisite: Both courses must be taken consecutively in the same year (Women's Choir A & B).

Women's Choir is an elite choral group consisting of approximately forty (40) members. Music Theory, Literature, History, Appreciation, and Vocal Production are taught. Regular attendance and attendance at all performances are required to assure credit. Membership is by audition only and focuses on musical ability and experience. Written permission from the choir director is required to sign up for this class.

Chamber Choir A (Fall)

Course # 1585

Credit: 1

Grade Level: 10–12

Prerequisite: Both courses must be taken consecutively in the same year (Chamber Choir A & B).

Chamber Choir is an elite choral group consisting of approximately thirty (30) members. Music Theory, Literature, History, Appreciation, and Vocal Production are taught at a more advanced level. Regular attendance and attendance at all performances are required to assure credit. Membership is by audition only and focuses on musical ability and experience. Written permission from the choir director is required to sign up for this class.

Chamber Choir B (Spring Only)

Course # 1592 Credit: 1
Grade Level: 10-12
Prerequisite: Both courses must be taken consecutively in the same year (Chamber Choir A & B).

Chamber Choir is an elite choral group consisting of approximately thirty (30) members. Music Theory, Literature, History, Appreciation, and Vocal Production are taught at a more advanced level. Regular attendance and attendance at all performances are required to assure credit. Membership is by audition only and focuses on musical ability and experience. Written permission from the choir director is required to sign up for this class.

Chorus (9th) A (Fall Only)

Course # 1573 Credit: 1
Grade Level: 9 only
Prerequisite: Both courses must be taken consecutively in the same year (Chorus A & B).

Mixed Chorus A (Fall Only)

Course # 1574 Credit: 1
Grade Level: 10 - 12
Prerequisite: Both courses must be taken consecutively in the same year (Chorus A & B).

Chorus (9th)B & Mixed Chorus B (Spring Only)

Course # 1572 Credit: 1
Grade Level: 9 - 12
Prerequisite: Both courses must be taken consecutively in the same year (Chorus A & B).

This course includes studying and performing music from the various periods. Performance on a high level of achievement is required. The fundamentals of music theory, history, and vocal production are taught in this class. Regular attendance is a must, and attendance at all performances is required to assure credit. No audition is needed.

Concert Band A (Fall Only)

Course # 1603 Credit: 1
Grade Level: 9-12
Prerequisite: Successful completion of a middle school program, ability to play a band instrument, read music and/or audition. Both A and B must be taken consecutively in the same year.
Fee: There is a \$12 instrument rental fee per semester for use of school instruments.

Concert Band B (Spring Only)

Course # 1604 Credit: 1
Grade Level: 9-12
Prerequisite: Successful completion of a middle school

program, ability to play a band instrument, read music and/or audition. Both A and B must be taken consecutively in the same year.

Fee: There is a \$12 instrument rental fee per semester for use of school instruments.

This instrumental music course is designed to study, rehearse and perform the repertoire appropriate to the medium. The course teaches music through performance. The group performs several concerts, participates in festivals, school and community functions. Attendance at all band functions is compulsory. Marching Band, Pep Band and Jazz Band are extra-curricular activities of the Symphonic Band. Participation in these extra-curricular groups is permitted for members of the Symphonic and Concert Bands, permission of the director, or by audition. Solo & Ensemble, All-State Band, Select Band, other honor bands and private instruction are available as students' interest warrants.

Percussion Ensemble A (Fall Only)

Course # 1556 Credit: 1
Grade Level: 9-12
Prerequisite: Successful completion of a middle school program, ability to play band percussions instruments, read music and/or audition. This course is taken during the fall semester coupled with Symphonic Band B or Concert Band B in the Spring semester. Both Courses must be taken consecutively in the same year. Some students may remain in the percussion ensemble class during the spring semester depending on the instrumentation needs of the Concert and Symphonic Bands.

Fee: There is a \$12 instrument rental fee per semester for use of school instruments.

This instrumental music course is designed to study, rehearse and perform the repertoire appropriate to the medium. It performs in conjunction with the Symphonic and Concert Bands. The group performs several concerts, participates in band festivals, school and community functions. Attendance at all band functions is compulsory. Marching Band, Pep band and Jazz Band are extra-curricular activities of the Percussion Ensemble. Participation in extra-curricular groups is permitted for members of the Percussion ensemble, permission of the director, or by audition-Solo & Ensemble, All-State Band, Select Band, and private instruction are available as students interest warrants.

Percussion Ensemble B (Spring Only)

Course # Credit: 1
Grade Level: 9-12
Prerequisite: Successful completion of a middle school program, ability to play band percussions instruments, read music and/or audition. This course should be coupled with Percussion Ensemble A, Symphonic Band A or Concert Band A in Fall Semester. Both courses must be taken consecutively in the same year.
Fee: There is a \$12 instrument rental fee per semester for use of school instruments.

This instrumental music course is designed to study, rehearse and perform the repertoire appropriate to the medium. It performs in conjunction with the Symphonic and Concert Bands. The group performs several concerts,

participates in festivals, school and community functions. Attendance at all band functions is compulsory. Marching Band, Pep Band and Jazz Band are extra-curricular activities of the Percussion Ensemble. Participation in these extra-curricular groups is permitted for members of the Percussion Ensemble, permission of the director, or by audition. Solo & Ensemble, All-State Band, Select Band, other honor bands and private instruction are available as students' interest warrants.

String Orchestra A (Fall)

Course # 1557 Credit: 1

Grade Level: 9-12

Prerequisite: Successful completion of a middle school program ability to play sting orchestra instruments, read music and/or audition. Must sign up for course # 1557 and # 1558.

Fee: There is a \$12 instrument rental fee per semester for use of school instruments.

String Orchestra B (Spring)

Course # 1558 Credit: 1

Grade Level: 9-12

Prerequisite: Successful completion of a middle school program ability to play sting orchestra instruments, read music and/or audition. Must sign up for course # 1557 and # 1558.

Fee: There is a \$12 instrument rental fee per semester for use of school instruments.

This course is designed to study, rehearse and perform the repertoire appropriate to the medium. The group performs several concerts, participates in festivals, school and community functions. Attendance at all orchestra functions is compulsory.

Symphonic Band A (Fall Only)

Course # 1542 Credit: 1

Grade Level: 9-12

Prerequisite: This is an auditioned ensemble. All members must pass an audition with the band director. Both A and B must be taken consecutively in the same year.

Fee: There is a \$12 instrument rental fee per semester for use of school instruments.

Symphonic Band B (Spring Only)

Course # 1591 Credit: 1

Grade Level: 9-12

Prerequisite: This is an auditioned ensemble. All members must pass an audition with the band director. Both A and B must be taken consecutively in the same year.

Fee: There is a \$12 instrument rental fee per semester for use of school instruments.

This instrument course is designed to study, rehearse, and perform repertoire appropriate to the medium. The course teaches music through performance. The group performs several concerts, participates in band festivals, school and community functions. Attendance at all band functions is compulsory. Marching Band, Pep Band and Jazz band are extra-curricular activities of the Symphonic Band. Participation in these extra-curricular groups is permitted for members of the Symphonic and concert Bands, permission of the director, or by audition. Solo and

Ensemble, All-State Band, Select Band, other honor bands and private instruction are available as student interest warrants.

CAREER AND TECHNICAL EDUCATION

**Contains Required/ Open Elective
Classes**

21ST Century Skills Class (Replaces Practical Living)

Course # 1805 Credit: 1

Grade Level: 10-12

Prerequisite: Required for graduation.

In today's world, including postsecondary, military and work environments, students require skills and content knowledge that is essential to prepare for their future. The ability to succeed in the future includes globally competitive skills and knowledge including critical thinking, media and technology, financial, civic engagement, leadership and communication and soft skills.

Accounting & Finance Foundations (Accounting I)

Course # 1813 Credit: 1

Grade Level: 10 – 12

Prerequisite: None.

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.

Advanced Design Applications-Civil Engineering and Architecture -Advanced Technology Education: 3rd step in Technology Education as a Career Major

Course # 1921 Credit: 1

Grade Level: 10-12

Prerequisite: Successful completion of Foundations of Technology and Technological Design.

This is a fast paced advanced laboratory-based course designed to study the Construction system associated with the Architectural and Civil Engineering concepts used in today's design and construction of permanent and semi-permanent structures. This course will include practices related to construction, maintenance, alterations and renovations, and the functions of primary systems installed in those structures, plus how advanced affect society and/or the environment. It will include research, design, construction, analysis, writing, and presenting. Students as individuals or in teams collaborate on the development of the community-based building project and conceptual

design for project presentations.

Advanced Design Applications - Aerospace Engineering Advanced Technology Education: 3rd step in Technology Educations as a Career Major
Course # 1922 Credit: 1
Grade Level: 10-12
Prerequisite: Successful completion of the Foundations of Technology and Technological Design courses .

This course will introduce students to aerodynamics, flight, and aircraft design including principles of aeronautics, structures and materials, and systems engineering. Students as individuals or in engineering teams apply technological literacy standards, along with skills to solve engineering design problems and to create innovative designs. Students will research, develop, test, and analyze engineering designs using criteria such as design effectiveness, public safety, human factors, and ethics.

Animal Technology (Small Animal) Fall Course
Course #1892 Credit: 1
Grade Level: 9 -12
Prerequisite: None
Fee: \$10.00 Agriculture Fee

Reptiles, Amphibians, Fish, Birds and Small Mammals fill the classroom while students acquire knowledge of reproduction, disease prevention and nutrition through hands on care of these creatures. Students may elect to be permanent owners through a class lottery as the semester comes to a close, if they so choose. Leadership and record keeping will be stressed.

Business Law
Course # 1817 Credit: 1
Grade Level: 11 – 12 ONLY
Prerequisite: None

This course develops an understanding of legal rights and responsibilities in personal law and business law. Application activities are applied everyday roles as consumers, citizens, and employees. Areas included: legal rights, court procedure, contracts, mortgages, leases, bankruptcy, employment, negotiable instruments, personal property and transportation. Excellent course for personal use and as a foundation for students entering college for a business major or law curriculum. A mock trial is conducted and all students will actively participate.

Business Management
Course # 1822 Credit: 1
Grade Level: 11 - 12
Prerequisite: None

This course emphasizes skills needed for managing a business that involves the selection and supervision of employees including efficient use of time, personnel, facilities, and financial resources. Students are taught the need for effective planning, organizing, leading, and controlling by the successful owner/manager. Areas of study include: forms of business ownership; typical business; effective communications; human relations skills required in dealing with employees; effective management strategies used in personnel, finance, production, marketing, and information processing and additional

education needs to pursue a professional management career. Verbal skills are a must. The course is designed as a college preparatory type class.

Business Principles
Course # 1830 Credit: 1
Grade Level: 9-10
Prerequisite: None

This course provides the student with a basic foundation in business and essential information for financial and economic decisions. Topics studied are; using Money wisely, Effective Use of Credit, Insurance, Useful Records, and travel. Excellent course for practical person living skills and consumer awareness. Recommended for those students interested in taking future business courses or those wanting to pursue a career in the business world. Studies of the stock market and current news related to the business world included.

Child/Human Development
Course # 1863 Credit: 1
Grade Levels: 11 – 12
Prerequisite: None

This course addresses the practical problems related to understanding the types and stages of human growth and development, recognizing effects of heredity and environment on human growth and development, meeting the needs of exceptional children, promoting optimum growth and development in the infancy, toddler, preschool, middle childhood, adolescent, and adulthood stages. Careers in child/human development are explored.

Comp TIA A+ Core Hardware (offered in the Spring)
Course # 1855 Credit: 1 indexed
Grade Level: 10-12
Prerequisite: A+ Core Software

(A+ Essentials Exam at the end of the school year) This course is designed to provide an opportunity for students to obtain the knowledge and skills necessary to service microcomputer hardware and supported peripherals, build a computer from parts, . Students will completely disassemble a computer then reassemble the machine. During this process students will learn the basics of computer hardware troubleshooting. Upon successful completion of A + Core hardware and A + Core software the student will be prepared to complete the Comp TIA A+ Essentials Exam. Successful completion of the A + Essentials Exam as well as one ADDITIONAL certification exam will earn the student will earn the A+ certification.

Comp TIA A+ Core Software (offered in the Fall) Must be taken in conjunction with A+ Hardware
Course # 1879 Credit: 1 Indexed
Grade Level: 10-12
Prerequisite: None

This course is designed to provide a thorough, step-by-step process for learning the fundamentals of supporting and troubleshooting computer operating systems. This course covers a wide range of material about operating systems, from using the different Windows operating systems to demonstrating how the boot process works, as well as installing, supporting, and troubleshooting the different Windows operating systems. The course takes a hands-on approach to learning the steps to installing, troubleshooting

and supporting the most common operation systems in use on the personal computer. Upon successful completion of A+ Core Hardware AND A+ Core Software the student will be prepared to complete the CompTIA A+ Essentials Exam. Successful completion of the A + Essentials Exam as well as one ADDITIONAL certification exam will earn the student will earn the A+ certification.

Computer and Technology Applications

Course # 1820 **Credit: 1**

Grade Level: 9 – 12

Prerequisite: Must be able to type 30 WPM – Software used Office 2007

Emphasis will be placed on producing mailable copy for letters, memos, tables, reports and other documents. Microsoft Office software will be used. This is an ESSENTIAL skill for students interested in a business career, pursuing college or personal use. Course content will also include understanding of hardware, software, operating systems, and care/operations. Correct keyboarding techniques are applied. The practical approach to software application introduced includes: WORD PROCESSING –create, edit, format, file, and print text; SPREADSHEETS – input data, calculate/manipulate data, copy/file/print specific rows/ columns, file and print document; DATABASE MANAGEMENT- design/create form, input data, print using search specs in label/tables format, file/retrieve data; POWERPOINT or DTP.A computerized workstation and appropriate software are required for each student.

Computer Programming – Game Design

Course # 1243 **Credit: 1 Indexed**

Grade Level: 10-12

Prerequisite: Introductions to Computer Science with a “C” or better.

This course introduces students to the rigorous field of interactive simulation and gaming. Students learn about the major components of modern simulations and games from both a design perspective and a technical perspective. Topics covered include: fundamentals of simulation/gaming, user interface design, human computer interaction, input/output paradigms, and an overview of simulation/game design process. Lab activities are designed to foster critical thinking and problem solving skills through the development of an understanding of the development process as well as interactive programming techniques through the creation of working interactive programs in a high level programming language.

Computer Support Essentials

Course # 1234 **Credit: 1**

Grade Level: 10-12

Prerequisite: Recommendation of computer science or technology teacher.

Students will learn basic skills necessary to perform general computer hardware and software support. Students will assist in the installation, maintenance, and upgrade of technology equipment and software throughout the building, including some troubleshooting of problems and setting up and maintaining email accounts. May be repeated for multiple credit

Computer Science – Intro

Course # 1238

Credit: 1 Indexed

Grade Level: 10-12

Prerequisite: Algebra II with a grade of C or better.

This course is built around the development of computer programs or parts of programs that correctly solve a given problem. The course also emphasizes design issues that make programs understandable, adaptable, and when appropriate, reusable. At the same time, the introducing of other important concepts in computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, and the study of standard algorithms and typical applications. In addition, an understanding of the basic hardware and software components of computer systems and the responsible use of these systems are integral parts of the course. This course is a prerequisite to AP Computer Science A.

Computer Science A – AP

Course # 1236

Credit: 1 Indexed

Grade Level: 10-12

Prerequisite: Introduction to Computer Science with a C or better.

This course is designed to provide students with a learning experience equivalent to that of an introductory college course in Computer Science. This course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development, and includes the study of data structures, design and abstraction. This course is compatible with those topics that are covered in a typical college CS1 course in accordance with the Association for Computing Machinery (ACM) Institute of Electrical and Electronic Engineers (IEEE) guidelines. This course is a good choice for students in any discipline because it provides a solid foundation for computer-related careers: computer programming, mathematics, engineering, business and the natural sciences.

Culinary Skills

Course #1869

Credit: 1

Open Grades 10 – 12

Prerequisite: Foods & Nutrition

Fee: \$12 consumable fee

This course is designed to provide training for employment in hospitality services in the area of food service. Career decisions and demands on family life are explored as well as skills and concepts related to supportive services such as public relations, foods and beverage operations, management techniques and entrepreneurship. Instruction will include on-the-job experiences.

Equine Science– Spring Course

Course # 1894

Credit: 1

Grade Level: 9 -12

Prerequisite: None

This is the perfect class PreVet and Vet Tech students as well as horse lovers whether they have prior experience or not. Field trips are necessary to study all aspects of the horse industry. Safety, breeds, internal & external anatomy, nutrition and reproduction, ailment and disease prevention, facilities and equipment, along with training and

conditioning will be areas of concentration. Leadership and record keeping skills will be stressed.

Exploring Computers -Special Topics, Computer Science

Course # 1852 **Credit: 1**
Grade Level: 9-12
Prerequisite: None

Entry level course as introduction into the world of computers including problem solving, programming, interface design, social and ethical issues of software. Chapter topics include: Human Computer Interaction, Problem Solving, Web Design, Introduction to Programming, Robotics, and Computing Application. All lessons are already prepared using the Exploring Computers curriculum. All lessons include daily lesson plans, activities and final project.

Floriculture & Floral Design – Spring Course

Course # 1874 **Credit: 1**
Grade Level: 9 -12
Prerequisite: None
Fee: \$10.00 Agriculture Fee

Create your own beautiful floral arrangements as gifts or interior design. Students will learn, with hands on fresh and silk materials, how to design wreaths, corsages, bud vases and/or arrangements. Leadership and record keeping will be stressed.

Financial Accounting (Accounting II)

Course # 1814 **Credit: 1**
Grade Level: 10 – 12
Prerequisite: Accounting & Finance Foundations & recommendation of Accounting I teacher.

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.

Financial Services I

Course # 1836 **Credit: 1**
Grade Levels: 11 – 12
Prerequisite: None

This course is designed for 11th and 12th grade students interested in finance and investing. This class will be taught in collaboration with CITI. No textbook will be used, the course will use on line current and relevant material. The stock market game will be one of the components that will allow students to participate in a real life situation. Students are highly encouraged to participate in FBLA and may be asked to complete the Financial Services Skills Standards Assessment.

Foods & Nutrition

Course # 1868 **Credit: 1**
Grade Levels: 10 – 12
Prerequisite: None
Fee: \$12 consumable fee

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 and careers in nutrition and food service.

Foundations of Technology-Introductory Level Course to Technology Education as a Career Major

Course # 1923 **Credit: 1**
Grade Level: 9-11
Prerequisite: This course is highly recommended prior to attempting any advanced Technology Education Courses.

This course provides students with the opportunities to apply the design process in the invention or innovation of a new product, process, or system. In this course, students will learn all about invention and innovation. They will have opportunities to study the history of invention and innovations, including their impact on society. They will learn about the core concepts of technology, and the various approaches to solving problems, including engineering design and experimentation. Students will apply their creativity in the invention and innovation of new products, processes, or systems. Finally students will learn about how invention and innovations impact their lives. Students participate in engineering-design activities to understand how new criteria, constraints, and processes affect design. Students are involved in activities where they learn about brainstorming, visualizing, modeling, constructing, testing, experimenting, and refining design. Students also develop skills in researching for information, communicating design information, and reporting results.

Greenhouse Technology –Spring Course(SI)

Course #1888 **Credit: 1**
Grade Level: 9 - 12
Prerequisite: None
Fee: \$10.00 Agriculture Fee

Students transform a cold, empty greenhouse into a warm green oasis with the knowledge they gain through this course. Public sale of perennials, annuals, hanging baskets, herbs and vegetables finance the student's experience. Plant propagation, science and marketing will be covered along with leadership and record keeping.

Help Desk

Course # 1297 **Credit: 1**
Grade Level: 10-12
Prerequisite: Successful completion of Computer Support Essentials Course

Students will learn basic networking concepts, computer support services, web design and will help train other students in general hardware and software installation and assist in maintenance support throughout the building. Students will also operate the technology Help Desk, diagnose and repair technology devices, process work orders, train teachers and students to use technology. May be repeated for multiple credits.

International Business

Course# 1842

Credit: 1

1 Semester

Grade Level: 10-12

Prerequisite: None

This course is designed to provide students with basic knowledge and skills related to international economic activities and global business transactions. Students will examine the relationship of global business activities to nations, companies, and individuals in their role as workers, consumers, and citizens; and will examine economic, cultural, geographic, historic, and technological influences on global business activities, management principles, human relation theories, information systems, production, marketing, and finance activities.

Internship

Course # 1811

Credit: 1

Grade Level: 12

Prerequisite: Permission through application process, interview, and selection process.

Internships are typically work-based learning experiences involving students who have completed extensive school-based preparation relating to a career path in the student's academy. Internships are conducted under the supervision of a classroom teacher. Some internships simply involve observing professionals as they carry out their duties, while other internships are designed to be "capping" experiences which allow students to apply hands-on activities that were taught in class. Business internships will be structured with a combination of classroom experience and field experience.

Introduction to Media

Course # 1857

Credit: 1

Grade Level: 9-12

Prerequisite: None

This hands-on course applies publishing and presentation concepts through the development of sophisticated business documents and projects. These documents include, but are not limited to, brochures, manuscripts, reports, programs, catalogs, newsletters, flyers, business forms, 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, storyboarding, editing, page layout, and design concepts are taught. Students will be introduced to a number of technical and non-technical skills, including script writing, directing, and hands-on camera and studio skills such as lighting, sound and editing. Students will develop communication skills, problem-solving techniques, cooperative learning, and interpersonal skills.

Landscaping & Turf Management - Fall Course

Course # 1889

Credit: 1

Grade Level: 9 -12

Prerequisite: None

Fee: \$ 10.00 Agriculture Fee

Fall I.D. walks, spring bulb planting, weed collection and working outside accompany turf management studies to equip students with a lifetime of useful knowledge for the

home or landscape industry. Landscape design and principles guide the new designer for proper plant selection and placement. Leadership and record keeping skills will be stressed.

Leadership Dynamics

Course # 1840

Credit: 1

Grade Levels: 11-12

Prerequisite: None

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

Life Skills

Course # 1860

Credit: 1

Grade Levels: 9-10

Prerequisite: None

Fee: \$12.00 consumable fee

This comprehensive course provides an opportunity for acquiring basic life skill and allows students to select specific areas for concentrated study. Emphasis is on work and family, adolescent development, selection and care of clothing, consumer spending, housing choices, challenges of child rearing and guidance in establishing relationships.

Parenting

Course # 1914

Credit: 1

Level: 10-12

Prerequisite: none

This course explores the challenges and issues of raising children. In addition, such issues as infertility, birth defects, environmental factors and prenatal development are explored. Students will be required to care for a computerized "child" during this course.

Principles of Agriculture – Fall Course

Course # 1885

Credit: 1

Grade Level: 9 only

Prerequisite: None

Students will develop leadership and communication skills while surveying career areas in our natural resources for future development. Vet Tech, Turf & Landscape, Construction, Floral Design, Equine and Greenhouse are only a few of the career areas to be examined. Foundations in science, math and reading are accompanied by record keeping.

Principles of Marketing

Course # 1803

Credit: 1

Grade Level: 9 – 12

Prerequisite: None

This course provides a basis foundation for further study in marketing. Students study the development of products and then explore what occurs in the marketplace by studying purchasing, pricing, and distribution functions. Decision-making and problem solving skills are involved in units of human relations, distribution systems, market

information management and product/service planning. The employment skills learned will improve and increase the chance of successful transition into the world of work. Leadership development will be provided through FBLA.

Principles of Teaching

Course # 1804 Credit: 1

Grade Levels: 11 – 12

Prerequisite: None

This course provides opportunities for student with an interest in teaching to develop skills, strategies, and techniques used for instruction at various grade levels. Instruction addresses the principles and procedures for promoting the physical, emotional, social, and intellectual development of children, adolescents and developmentally appropriate practices in educational settings. Students will gain work experience in classrooms with certified teachers as part of their course work. Other components include the development of a four-year post-secondary plan, salaries and benefits of a teacher, job security, and future projections of the job market. Leadership experiences will be provided through DECA.

Promotional Applications & Media

Course # 1231 Credit: 1

Grade Level: 11-12

Prerequisite: Class size is limited to ten due to space, an application process is required. Intro to Media.

This course is designed to provide students with hands-on applications, of running a school based industry simulated experience. Students will actively plan, write, and perform all stages of video production. Students will contribute as a team member, as they perform all functions of broadcasting procedures. They will produce live announcements using V-Brick system within the school and programming for the educational access channel on local cable access. In addition, students will apply basic fundamentals of advertising using digital and print media. Outside work is required for events that occur outside normal school hours. This course is based on the business and marketing core that includes communication skills, economics, financial analysis, product/service management and promotion (a school-based enterprise).

Microsoft Office (MOS)

Course # 1821 Credit: 1 Indexed

Grade Level: 10–12

Prerequisite: Computer and Technology Applications. A notebook will be required.

A continuation of Computer and Technology Applications course. This computer laboratory class provides extensive “hands-on” experience in computer operations such areas as word processing, database, spreadsheet, and presentation graphics. Students learn to use Microsoft Office, the software widely used in the business industry. Students will be prepared to take Access, Excel, Word and PowerPoint core tests of the MOS exams.

Multimedia Publisher

Course # 1854 Credit: 1

Grade Level: 10–12

Prerequisite: Promotional Applications & Media and Business Dept. Teacher Recommendation

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 documents. Formatting, editing, page layout, and design concepts are taught. Distribution ready publication standards are applied to all projects. Students will develop communication skills, problem-solving techniques, cooperative learning, and interpersonal skills.

Advanced Multimedia Publisher

Course # 1927 Credit: 1

Grade Level: 10–12

Prerequisite: Multimedia Publisher and Business Dept. Teacher Recommendation

This hands-on course applies advanced web design, publishing, and presentation concepts through the development of sophisticated documents and projects which includes, but is not limited to: web sites, web databases, web movies, video editing and production, television productions. This course is designed around the learning goals of the instructor utilizing hardware and software available.

Newspaper Journalism I

Course # 1153

Credit: 1

Grade Level: 11 - 12

Prerequisite:

Newspaper Journalism II

Course # 1154

Credit: 1

Grade Level: 11 – 12

Prerequisite:

Newspaper Journalism III

Course # 1155

Credit: 1

Grade Level: 11 – 12

Prerequisite:

Newspaper Journalism II

Course # 1156

Credit: 1

Grade Level: 11 – 12

Prerequisite:

Students will gain a fundamental understanding of journalism basics including photography, advertising, different styles of journalistic writing, First Amendment issues, and journalism ethics. They will also be introduced to the process of news writing including newsgathering, reporting and editing. Students will use these basics to write and publish the school newspaper, *The Cougar*. Strong writing skills are required for this class. Selection of those students to be enrolled will be based on an English teacher's recommendation, past classroom performance and the student's ability to work independently.

Nutritional and Food Science

Course # 1858 Credit: 1

Grade Level: 10 -12

Prerequisite: None

Students will gain an understanding of selected physical and life science concepts and apply them to everyday life. Much of the study and work is directed toward providing students with an understanding of concepts of nutrition and relationships between nutrition and science. Students use inquiry methods to conduct laboratory investigations. In addition, students explore career possibilities in science, nutrition, microbiology, family and consumer sciences, dietetics and other research specialties.

Relationships

Course # 1864

Credit: 1

Grade Level: 10–12

Prerequisite: None

This course assists students to develop self understanding, understand others better, improve interpersonal skills both within and outside the family, be more considerate of other person's needs and property, and maintain mental and emotional wellness. Family Life education comprises a portion of this course, including dating and married relationships. Preparations for and the achievement of a successful marriage are emphasized.

Senior Project

Course # 2994

Credit: 1

Grade Level: 12

Prerequisite: Written proposal and approval.

Satisfactory attendance, academic achievement, and behavior must be met before student will be accepted into the class.

This class provides an opportunity for a student to choose an area of interest, conduct in-depth research, demonstrate problem solving skills, decision making skills and independent learning skills and also demonstrate presentation skills. This class will be directed by a teacher and community mentor, but driven by the student. Students, under the guidance of the teacher, will also learn organization and presentation skills related to their project. Students will plan, research, document, and complete a significant meaningful project for themselves and /or the community. Limited availability based on proposal, attendance, academic achievement, and behavior

Special Topics – Technology Education-Capstone for Technology Education as a Career Major

Course # 1924

Credit: 1

Grade Level: 12

Prerequisite: Foundations of Technology,

Technological Design, and Advanced Design

Applications - Civil Engineering and Architecture or Aerospace Engineering (no exceptions).

This is a laboratory-based course designed to study a technological system or topic, and/or a recent technological advancement. The study will include how this advancement affects society and/or the environment. The experience will allow the student to study in-depth a technology topic or issue. It will include research, design, construction, analysis, writing, and presenting. A variety of instructional strategies using multiple resources, specialized laboratories, and collaboration with mentoring

experts will be encouraged.

Sports and Event Marketing

Course # 1816

Credit: 1

Grade Levels: 11-12

Prerequisite: None

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

Technological Design-Intro to Computer-Aided Drafting: 2nd step in Technology Education as a Career Major

Course # 1925

Credit: 1

Grade Level: 9-11

Prerequisite: It is highly recommended this course be completed prior to attempting any advanced Technology Education course.

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 process 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. The goals of this course are accomplished through various laboratory instructional strategies, and the introduction to computer-aided drafting.

Technology Internship

Course # 1244

Credit: 1

Grade Level: 11-12

Prerequisite: Successful completion of Help Desk Course

Technology Internship students serve as the lead student techs in the building who will diagnose problems, train and supervise other interns and oversee the work orders for all technology equipment and software in the building. They are responsible for the installation and maintenance of all technology hardware and software in the building. These students will train technicians to troubleshoot problems with equipment, email, networking issues, etc. May be repeated for multiple credits.

Visual Basic

Course # 1235

Credit: 1 Indexed

Grade Levels: 10 – 12

Prerequisite: Algebra II with C or better.

This course is designed to introduce students to beginning

computer operations and programming using the Visual Basic language. The emphasis will be on learning to write event-driven, object-oriented, windows-based programs. Students will learn to design, code, debug, and document their own programs. Through hands-on computer experience, students will prepare for academic and/or vocational training involving computers and computer programming. This course will teach important computer concepts and prepare the students for more advanced languages.

Web Design

Course # 1806 **Credit: 1 Indexed**

Open Grades 11 – 12

Prerequisite: Completion of at least one other computer science course with a grade of A or B and computer science teacher recommendation.

This course is designed to introduce students to the fundamental principles of web design and development. Students will develop computer skills in an analytical, systematic, and logical way, with the emphasis on learning Hypertext Markup Language (HTML), with a secondary emphasis on programming in the JAVASCRIPT language. Students will utilize current available technology to create well-designed, successful web pages through excellent planning and logical development of ideas, and will learn to improve their presentation of electronic documents. Related topics may include working with graphics, animation, multimedia, analyzing web sites and exploring various software programs for web page development.

Web Design - Advanced

Course # 1254 **Credit: 1 Indexed**

Grade Levels: 11-12

Prerequisite: Web Design with a grade of C or better AND Web Design instructor's recommendation.

This is an advanced web design course, which is a continuation of Computer Programming for Web Design. Students will further develop their knowledge of Hypertext Markup Language (HTML) and advance their capabilities in web design and development. A major emphasis in this course will be programming in the JAVA language, and incorporating JAVA applets into their web designs. Students will learn to design, build, and alter web pages/sites through the use of various web page editors. Related topics may include working with graphics, animation, multimedia, and Cascading Style Sheets. Upon completion of this course, students should be able to successfully integrate HTML, JAVASCRIPT, and JAVA programming/languages to create highly effective web sites.

Web Design Practicum I

Course # 1255 **Credit: 1 Indexed**

Grade Levels: 11-12

Prerequisite: Computer Programming for Web Design and Advanced Computer Programming for Web Design, with a grade of "C" or higher and Web Design teacher recommendation.

Web Design Practicum II

Course # 1256 **Credit: 1 Indexed**

Grade Levels: 11-12

Prerequisite: Computer Programming for Web Design

and Advanced Computer Programming for Web Design, with a grade of "C" or higher and Web Design teacher recommendation.

Students in these courses will utilize their web design skills to design, develop, and maintain actual web sites, including, but not necessarily limited to, our school web site. Students will gain practical experience, as "on the job training", similar to an internship or practicum. It will be the responsibility of these students to keep information on the school web site current, informative, and accurate. Students will also be available to work with teachers, clubs, and organizations within the school to organize their web site information, so as to provide maximum representation on the school web site. With teacher approval, students may register for Web Design Practicum II following Web Design I.

Yearbook I - Fall Only

Course # 1180 **Credit: 1**

Grade Level: 11-12

Prerequisite: Selection of those students to be enrolled will be based on an English teacher's recommendation, past classroom performance and the student's ability to work independently.

Yearbook I- Spring only

Course # 1181 **Credit: 1**

Grade Level: 11-12

Prerequisite: Selection of those students to be enrolled will be based on an English teacher's recommendation, past classroom performance and the student's ability to work independently.

Yearbook II

Course # 1183 **Credit: 1**

Grade Level: 11 – 12

Prerequisite: Selection of those students to be enrolled will be based on an English teacher's recommendation, past classroom performance and the student's ability to work independently.

Yearbook III

Course # 1185 **Credit: 1**

Grade Level: 11 – 12

Prerequisite: Selection of those students to be enrolled will be based on an English teacher's recommendation, past classroom performance and the student's ability to work independently.

Yearbook IV Fall Only

Course # 1186 **Credit: 1**

Grade Level: 11- 12

Prerequisite: Selection of those students to be enrolled will be based on an English teacher's recommendation, past classroom performance and the student's ability to work independently.

Yearbook IV Spring Only

Course # 1187 **Credit: 1**

Grade Level: 11- 12

Prerequisite: Selection of those students to be enrolled will be based on an English teacher's recommendation, past classroom performance and the student's ability to work independently.

Students will gain a fundamental understanding of yearbook journalism basics including photography, layout design, feature writing, advertising and marketing. Students will use these basics to produce and publish the yearbook Archives. Strong writing skills are required for this

class.

HEALTH AND PHYSICAL EDUCATION

CPR/First Aid

Course # 1724

Credit: 1

Grade Level: 10-12

Prerequisite:

This course will provide students with the opportunity to gain skills that may one day save a life. Students will be instructed using the American Red Cross curriculum for training in Adult, Child and Infant CPR, and First Aid. Successful completion of the course may result in an American Red Cross certification.

Components of Fitness (Nine Week Course)

Course # 1720

Credit: 1/2

Grade Level: 10-12

Prerequisite: Will be scheduled in conjunction with PE II.

Fee:

The purpose of this course is to make a lasting difference in the physical, mental, emotional, and social well being of students. Students will use the decision making process to make informed choices regarding lifetime physical activities. Fitness activities will provide students opportunities to develop efficient movement patterns and learn various concepts of cardiovascular health and physical fitness.

Health/Physical Education

Course # 1710

Credit: 1

Grade Level: 9 required

Prerequisite: This course is required for graduation.

This course addresses the following concepts for healthful living practices: health maintenance, nutrition, human growth and development, family living, mental health, drug education, first aid, community and environmental health. Physical Education I is the basic secondary physical education required of all students. It provides an extension of instruction received during elementary and middle school physical education courses. A variety of activities are introduced which stress the development of basic skills, rhythmic activities, individual as well as team sports and games, also includes self-testing physical fitness activities.

Advanced Health Topics

Course # 1709

Credit: 1

Grade Level: 10-12

Prerequisite: Health I

During this course, students will examine the most current health issues. Some examples of topics may include drug abuse, prevention, AIDS and HIV epidemic, organ donation, cloning and nutrition/fad diets. Student will create a biweekly news broadcast and newsletter for the school and community. The newsletter will be posted on the school's web site, as well as the use of the broadcast footage used by the CTV monthly magazine.

Physical Education II (Nine Week Course)

Course # 1713

Credit: 1/2

Grade Level: 10-12

Prerequisite: Will be scheduled in conjunction with PE II.

This course is a progression of skill level instruction and competition in team sports as well as individual sports. The team sports may include flag football, soccer, speedball, basketball, volleyball, and softball. The individual sports may include tennis, paddleball, badminton, golf, track and field, aerobics, weight training and conditioning.

Human Body Systems

Course # 1701

Credit: 1

Grade Level: 10-12

Prerequisite:

This class is designed to give students an overview of each of the human body systems. The instruction will include the identification of the specific parts of each of the systems as well as the terminology, the function, and related diseases/disorders. Students will gain the basic knowledge of the human body which may advance their higher levels of study in subjects such as Biology AP, Anatomy, and CPR/First Aid. If a student has any desire to enter the medical field this would be a very good introduction to the 'Incredible Human Machine' and its very complex systems.

LANGUAGE ARTS

AP Lang & Comp – A

Course # 1131a

Credit: 1 Indexed

Grade Level: 11 -12

Prerequisite: Must take A and B consecutively in the same year. B average in English III Honors or Teacher recommendation.

AP Lang & Comp – B

Course # 1131b

Credit: 1 Indexed

Grade Level: 11 -12

Prerequisite: Must take A and B consecutively in the same year. B average in English III Honors or Teacher recommendation.

AP Language and Composition is designed for those students with outstanding reading and composition skills and is a rigorous course of study, emphasizing analysis and comprehension. Expository, analytical, and argumentative writings, as well as genre conventions will comprise the course. It requires significant outside work and is in preparation for the AP exam, which may result in receiving some college credit. *Students completing AP English Language are required to take a Clep or AP Exam to receive weighted credit. Students will bear the expense of the test.* Compilation and completion of a writing portfolio, which includes pieces of writing from across the curriculum, will be required of seniors for graduation. A research and performance event is required by the College Board for both seniors and juniors.

AP Lit & Comp – A

Course # 1141a

Credit: 1 Indexed

Grade Level: 11 -12

Prerequisite: Must take A and B consecutively in the same year. B average in English III Honors or Teacher recommendation.

AP Lit & Comp – B

Course # 1141b **Credit: 1 Indexed**

Grade Level: 11 -12

Prerequisite: Must take A and B consecutively in the same year. B average in English III Honors or Teacher recommendation.

AP Literature and Composition is designed for those students with outstanding reading and composition skills and is a rigorous course of study of classic and contemporary literature emphasizing analysis and comprehension. It requires significant outside work and is in preparation for the AP exam, which may result in receiving some college credit. *Students completing AP English Literature are required to take a Clep or AP Exam to receive weighted credit. Students will bear the expense of the test.* Compilation and completion of a writing portfolio, which includes pieces of writing from across the curriculum, will be required of seniors for graduation. A research and performance event is required by the College Board for both seniors and juniors.

Creative Writing

Course # 1179 **Credit: 1**

Grade Level: 9 -12

Prerequisite: Students must apply by filling out an application and submitting a writing sample to the teacher and have at least a 2.0 GPA.

Creative writing provides an opportunity for students to discover and perfect their creative communication skills. Students learn to develop voice, tone, focus, form, and meaning in different writing styles. Students will learn peer conferencing skills and creative revision techniques.

English I

Course # 1110 **Credit: 1**

Grade Level: 9

Prerequisite:

Exposes the student to grammar structure and usage, use of the writing process with emphasis on the ability to write and use a variety of sentence forms within a tightly constructed paragraph, development of the ability to write a simple expository composition with emphasis on the introductory paragraph and use of transitions within and between paragraphs, development of research skills to locate information using the Readers Guide to Periodical Literature and general encyclopedias, development of study skills such as note-taking, outlining, and summary writing.

Literature study emphasizes types of literature, i.e. short story, novel, biography, poetry, and drama. Vocabulary study encourages the enlargement of spoken and written language. Development of speaking skills will be emphasized through oral presentations. Some sections of English I will be assisted by a collaborative teacher who will meet the needs of those students who require additional assistance with skills.

English I – Honors

Course # 1111

Credit: 1 Indexed

Grade Level: 9

Prerequisite: B average or above in 8th Grade English

Includes the same general content as English I but requires more outside reading with an emphasis on analysis. Creative and expository writing will be emphasized, and research projects will be introduced with emphasis on the writing process.

English II

Course # 1120

Credit: 1

Grade Level: 10

Prerequisite:

English II will continue the development of writing skills through a process approach concentrating on the ability to use logical transitions for organization and develop a strong conclusion to an expository essay. Continued development of research skills with emphasis on variety of form and development of analytical skills. Students will be exposed to a variety of world literature ranging from ancient to contemporary writings of both fiction and non-fiction. Continuing development of speaking skills will be emphasized through oral presentations. Some sections of English II will be assisted by a collaborative teacher who will meet the needs of those students who require additional assistance skills.

English II – Honors

Course # 1121

Credit: 1 Indexed

Grade Level: 10

Prerequisite: B average or above in English I or teacher recommendation.

English II Honors exposes students to a variety of world literature and requires much outside reading. Students will read, discuss, and write about selected periods of world literature. The student will develop further knowledge and basic skills in research, listening, speaking reading, and writing through the study of grammar, composition techniques, and vocabulary study. Emphasis is placed on study of author's styles and critical analysis of content. The techniques of clear logical writing are stressed in class, and a research project is required.

English III

Course # 1130

Credit: 1

Grade Level: 11

Prerequisite:

English III concentrates on American literature, studying both fiction and non-fiction and develops an appreciation for the cultural and literary heritage of American literature. Students will polish writing skills using a variety of styles of organization in papers of varying types and lengths. Research and oral skills will continue to be reinforced with projects of varying types and lengths. Some sections of English III will be assisted by a collaborative teacher who will meet the needs of those students who require additional assistance with skills.

English III – Honors

Course # 1126

Credit: 1 Indexed

Grade Level: 11

Prerequisite: B average or above in English II or

teacher recommendation.

Honors English III concentrates on American literature, studying both fiction and non-fiction and developing an appreciation for the cultural and literary heritage of American literature. The student will explore the time, events, people, technology, politics, economy, and traditions that influenced American writers artists, and musicians. The student will further develop skills in research, writing, speaking, and reading. A research paper will be required. This course awards 1 unit in Honors English III.

English IV
Course # 1140 **Credit: 1**
Grade Level: 12
Prerequisite:

This course will expose students to significant British and Western European literature. Refinement of writing and speaking skills will continue with an emphasis on analysis and support of ideas. Emphasis will be placed on preparation for immediate entry into the workforce, the military, or college. Projects will emphasize problem solving, research teams and groups working toward specific goals, and effective communication of information and ideas. Compilation and completion of a writing portfolio, which includes pieces of writing from across the curriculum, will be required for graduation. At least one research project will be required which will include proper documentation and correct bibliographic form.

English IV Hnrs
Course # 1144 **Credit: 1 Indexed**
Grade Level: 12
Prerequisite: "B" average or above in English III or teacher recommendation

This course concentrates on British and Western European literature with a focus on cultural heritage, historical significance, and literary appreciation. Refinement of writing and speaking skills will continue with an emphasis on analysis and support of ideas. Compilation and completion of a writing portfolio, which includes pieces of writing from across the curriculum, will be required for graduation. At least one research project will be required which will include proper documentation and correct bibliographic form.

Foundations of Writing
Course # 1117 **Credit: 1**
Grade Level: 9-12
Prerequisite:

Students will intensely explore the English language by breaking it down to study grammar and usage rules. Standard and non-standard grammar will be studied as well as the standard rules of usage for capitalization and punctuation. Emphasis will be placed on ACT preparation and general improvement of writing skills.

Poetry
Course # 1119 **Credit: 1**
Grade Levels: 9-12
Prerequisite: Creative Writing

This course will be for those students who, after completing the survey class, wish to pursue poetry further. Throughout the semester in this course, students will go beyond the initial stages of poetic writing to achieve a more in-depth understanding and appreciation of what poetry is and how it should be written. In addition, students will plan, participate, and advertise a poetry reading to be held at the school. Students will also create a literary publication magazine in which they publish their own poetry as well as other students' from the school

Reading for College Success
Course # 1101 **Credit: 1**
Grade Level: 9 -12
Prerequisite:

This course is for students who need additional time and support or for students who may not have attained the benchmark ACT score in Reading, which includes Social Sciences, Natural Sciences, Humanities, and Literature texts. This course could serve as an English/Language Arts elective for high school graduation, but not as one of the 4 required English Language Arts courses.

Special Topics in Language Arts (Reading)
Course # 5150 **Credit: 1**
Grade Level: 9-12
Prerequisite: Only students who have been referred and qualify will be permitted in this class.

Special Topics in Language Arts (Reading)
Course # 5160 **Credit: 1**
Grade Level: 9-12
Prerequisite: Only students who have been referred and qualify will be permitted in this class.

Special Topics in Language Arts (Reading)
Course # 5170 **Credit: 1**
Grade Level: 9-12
Prerequisite: Only students who have been referred and qualify will be permitted in this class.

This is a specially designed instruction course in reading based on the Individual Education Plan and the goals and objectives outlined in this plan. Time spent on each unit varies according to the individual student's strengths and weaknesses. All coursework is aligned with Kentucky's Learner Goals and Academic Expectations.

Speech & Drama
Course # 1170 **Credit: 1**
Grade Level: 9 – 12
Prerequisite: Class size is limited to twenty and requires teacher recommendation and 2.0 GPA.
Fee: \$25

Speech and Drama provides basic instruction in speech preparation and public speaking techniques, as well as theater history, basic acting skills, and various aspects of production processes.

MATHEMATICS

For High School Graduation a total of four required

credits must be achieved. Every student is required to schedule a math class each year high school.

Algebra I A (Fall)

Course #1204 Credit: 1

Grade Level: 9

Algebra I B (Spring)

Course # 1205 Credit: 1

Grade Level: 9

Prerequisite: Must be taken first and second semester of the Freshman year, unless credit earned at the middle school.

These courses are designed for first-time Algebra students. Topics include, but are not limited to, real number systems, properties of positive and negative numbers, linear equations, inequalities, quadratics, exponents, absolute values, proportions, and probability.

Algebra II

Course # 1212 Credit: 1

Grade Level: 10 – 12

Prerequisite: Algebra I A, Algebra I B, and Geometry

This course expands many of the topics of Algebra I and also includes but is not limited to, functions, number systems, data analysis, and systems of equations, rational equations, and radical expressions.

Algebra II Accelerated

Course # 1213 Credit: 1 Indexed

Grade Level: 10-11

Prerequisite: Geometry with an A or B average or successful completion of Geometry Accelerated. A minimum EXPLORE score of 18 or PLAN score of 22 is recommended.

This course will cover the basic outline for Algebra II but will be paced to accommodate students with a high proficiency of skills learned in Algebra I.

Calculus I - AP

Course # 1249 Credit: 1 Indexed

Grade Level: 11 – 12

Prerequisite: Pre-Calculus II with an A or B average. A minimum EXPLORE score of 20 or PLAN score of 22 is recommended. BY SIGNING UP FOR THIS CLASS YOU ARE COMMITTED TO A FULL YEAR OF MATH – CALCULUS I IN THE FIRST SEMESTER AND CALCULUS II IN THE SECOND SEMESTER OF THE SAME SCHOOL YEAR.

This is an advanced placement course, which follows the AP course description of the College Board. Topics include but are not limited to: limits, continuity, differentiation of algebraic, implicit and transcendental functions, applications of derivatives and Newton's Method. Students in this course must have access to a T1-83 graphing calculator and will be required to take AP Calculus II in the second semester of the same school year.

Calculus II – AP

Course # 1250 Credit: 1 Indexed

Grade Level: 11 – 12

Prerequisite: Completion of AP Calculus I in the first semester of the same school year, with at least an 86%

indexed grade or a score of at least an 86% on the AP Calculus I exit test.

This is an advanced placement course, which follows the AP course description of the College Board. Topics include but are not limited to: Integration of algebraic, implicit and transcendental functions, use of Riemann-Stieltjes integrals for finding the area under continuous curves, volumes of rotation, centroid, differential equations, sequences and series, and hyperbolic functions. Students in this course must have access to a TI-83 graphing calculator and will be required to take the Advanced Placement Exam.

College Prep Algebra (Elective Only)

Course # 1215 Credit: 1

Grade Level: 12

Prerequisite: Completion of all four core math credits for graduation. A score of 21 or lower on the math portion of the ACT. Teacher recommendation in the absence of an ACT score.

This course is designed for seniors who are not pursuing trigonometry or calculus. The course will aid in strengthening math skills before entering college. This course will model the curriculum of college algebra and address various entry-level math topics. In addition, students will review ACT math topics.

Geometry

Course # 1220 1 Credit

Grade Level: 9 – 12

Prerequisites: Completion of Algebra IA and Algebra IB with an A, B, or C average

This course is for college bound students. This course emphasizes discovery of geometric relationships through inductive and deductive reasoning. Topics include relationships between points, lines, planes and angles, parallelism, triangles, quadrilaterals, polygons, congruence and similarity, the Pythagorean Theorem, circles, areas, constructions, coordinate geometry, transformations and basic solids.

Geometry – Accelerated

Course # 1221 Credit: 1 Indexed

Grade Level: 9-10

Prerequisites: Completion of Algebra I at the middle school or completion of Algebra IA and Algebra IB with an A average. A minimum EXPLORE score of 18 or PLAN score of 22 is recommended.

This course is intended for the accelerated mathematics student. Topics will include those listed for Geometry (#1220) with emphasis on applications and combining multiple geometric concepts. This course will explore right triangles, circles, and solids in greater depth and will be paced to meet the abilities of an advanced student.

Geometry Concepts

Course # 1222 Credit: 1

Grade Level: 10 – 12

Prerequisites: Completion of Algebra I with a C or D average

This course is for college-bound students. It is designed for those students who had difficulty mastering some of the

concepts of Alg I A and Alg I B and who are less proficient in handling abstract ideas. This course covers the same topics as geometry, but will be paced to meet the needs of these students by emphasizing the fundamental concepts and applications of geometry.

Geometry /Intro to CAD (Elective)

Course # 1261 Credit: 1

Grade Level: 10 – 12

Prerequisites: Completion of Algebra IA and Algebra IB. This course meets the criteria for the Geometry graduation credit.

Geometry/Intro to CAD includes an emphasis on: reasoning skills, two- and three-dimensional modeling to solve problems both mathematical and real world. The focus of the course is on student discovery and realistic application of geometric relationships and principles through the use of computer-aided drafting programs.

Mathematics for Business and Industry (Elective)

Course # Credit: 1

Grade Level: 10 – 12

Prerequisites: Elective, successful completion of required core math credits.

This elective course develops math skills through real world applications. Topics covered will include but are not limited to bank services, payroll and taxes, insurance, stocks and bonds, and personal finance.

Pre-Calculus I (formally Algebra III)

Course # Credit: 1 Indexed

Grade Level: 11 – 12

Prerequisite: Completion of Accelerated Geometry or Geometry and completion of Accelerated Algebra II or Algebra II with an A, B, or C average. A minimum PLAN score of 22 is recommended.

This course is intended for students planning to continue into Pre-Calculus II and then AP Calculus. This course includes review and expansion of some topics of Algebra II in addition but not limited to solving quadratics, conic sections, rational exponents, logarithms, matrices, sequences, series, probability and statistics. This course covers a rigorous curriculum in preparation for AP Calculus.

Pre-Calculus II (formally Trigonometry)

Course # Credit: 1 Indexed

Grade Level: 11 – 12

Prerequisite: Completion of Pre-Calculus I with an A, B, or C average. A minimum PLAN score of 22 is recommended.

This course is intended for students planning to continue into AP Calculus. This course includes review and expansion of some topics of Pre-Calculus I including but not limited to logarithms, right triangles, trigonometry, trigonometric functions and analytic trigonometry. This course covers a rigorous curriculum in preparation for AP Calculus.

Probability and Statistics – Elective Course

Course # 1252 Credit: 1 Indexed

Grade Level: 11-12

Prerequisites: Must have completed all four required core math classes.

This is an accelerated class. This class is an in-depth study of counting principals, permutations and combinations, measures of central tendency and data analysis, using formulas, experiments, calculators and computers. This class is an elective math course, open only to students who have already completed their four required math classes. Students will be required to have a specific calculator as designated by the teacher. **This class will not fill the math graduation requirement**

Transitions Math (Fall Course) – Elective Course

Course # 1218 Credit: 1

Grade Level: 9

Prerequisite: This course will be taken as an elective simultaneous to the required course Algebra I A.

The objective of this elective course is to develop the skills students need to succeed in future math courses. A multisensory approach will offer students an opportunity to engage in learning in a variety of different non-traditional ways. Problem solving strategies will be taught and practiced to develop skills that can be used in a variety of situations.

Statistics I - AP

Course # 1263 Credit: 1 Indexed

Grade Level: 11-12

Prerequisite: Algebra II or Algebra II Accelerated with an A or B average. A minimum PLAN score of 22 is recommended. Students in this course must have access to a TI-83 graphing calculator. BY SIGNING UP FOR THIS CLASS YOU ARE COMMITTED TO A FULL YEAR OF MATH – STATISTICS I IN THE FIRST SEMESTER AND STATISTICS II IN THE SECOND SEMESTER OF THE SAME SCHOOL YEAR.

This course is designed to address the guidelines provided by the College Board for the Advanced Placement Statistics examination. Topics include but are not limited to: describing patterns and departures from patterns, planning and conducting a study, and exploring random phenomena using probability and simulation.

Statistics II - AP

Course # 1264 Credit: 1 Indexed

Grade Level: 11-12

Prerequisite: Completion of AP Statistics I in the first semester of the same school year, with at least an 86% indexed grade or a score of at least an 86% on the AP Statistics I exit test. Students in this course must have access to a TI-83 graphing calculator and will be required to take the Advanced Placement Exam.

This course is designed to address the guidelines provided by the College Board for the Advanced Placement Statistics examination. Topics include but are not limited to: estimating population parameters and testing hypotheses.

Advanced Topics in Mathematics - Elective

Course # 1217 Credit: 1

Grade Level: 11-12

Prerequisite: Must have successfully completed all four required core math classes.

This course will build upon concepts presented in Algebra II and Geometry to encourage higher order thinking. This course will include, but is not limited to, the following topics: linear systems and matrices, Gaussian elimination, linear programming, counting techniques, statistics, and finance.

SCIENCE

Anatomy

Course # 1330 Credit: 1 Indexed

Grade Level: 11 – 12

Prerequisite: Recommended successful completion of BOTH Biology and Chemistry with at least a B average.

Fee: \$ 15.00

Anatomy is a pre-college /Med. Tech. Curriculum designed to prepare students contemplating a medically related career. This class is an exhaustive survey of the human body; beginning at cells and progressing through body systems and their integrations. For relevance, multiple dissections will be performed, culminating with the mandatory dissection of the cat.

Astronomy

Course # 1347 Credit: 1

Grade Level: 10-12

Prerequisite: Recommended C or higher in Algebra IA and IB.

Fee: \$ 15.00 fee

This course is designed to provide students with an in depth study of space and related electromagnetism in space, spectroscopy, history of astronomers, telescopes, solar system, star formation and evolution, universal debris, measurements of stars, neutron stars and black holes, galaxies, cosmology, active galaxies, quasars, and dark matter. This is an elective course.

Biology

Course # 1321 Credit: 1

Grade Level: 10 – 12

Prerequisite:

Fee: \$ 15.00 fee

This required course offers insight into the fundamental processes of all living things. Emphasis will be placed on structure and function of plants and animals, cells and genetics. A survey of all seven kingdoms of life will be provided through an interactive, experimental approach.

Biology – Honors

Course # 1323 Credit: 1 Indexed

Grade Level: 9-10

Prerequisite: Open students with a 3.5 GPA in seventh and eighth. Standardized test scores and student academic performance must meet approval of course instructor and science team leader.

Fee: \$ 15.00 fee

This course provides an accelerated view of life processes, structure and function of living organisms, and a survey of the seven kingdoms of life. (Enrollment in this course requires students to take Honors Integrated Science and 4 credits total in Science).

Biology I – AP

Course # 1325 Credit: 1 Indexed

Grade Level: 11 – 12

Prerequisite: Biology I, Biology II, Chemistry I, or Honors Biology with teacher recommendation

Fee: \$ 15.00 fee

Advanced placement biology is a college level course designed to prepare students to take the AP biology exam. Students may receive college credit, and may also apply this course toward the Commonwealth Diploma. Course work during winter/spring break is to be expected. These courses (I & II) must both be taken for a student to be eligible to enroll. Students taking the AP Biology Exam will have a 1.08 indexed credit.

Biology II AP

Course # 1327 Credit: 1 Indexed

Grade Level: 11 - 12

Prerequisites: Biology, Biology II, Chemistry I, Advanced Biology AP I, or Honors Biology with teacher recommendation.

Fee: \$ 15.00 fee

Advanced placement biology is a college level course designed to prepare students to take the AP biology exam. Students may receive college credit, and may also apply this course toward the Commonwealth Diploma. Course work during winter/spring break is to be expected. These courses (I & II) must both be taken for a student to be eligible to enroll. Students taking the AP Biology Exam will have a 1.08 indexed credit.

Chemistry I

Course # 1342 Credit: 1

Grade: 10 – 12

Prerequisite:

Fee: \$ 15.00 fee

Chemistry is the study of matter and the changes it undergoes. Specific concepts include: measurement, atomic structure, bonding, the Periodic Table, nomenclature, reaction types, stoichiometry, gas laws, solubility and acids and bases. There are many hands-on and lab activities in the course. In order to be successful, students must keep accurate records and analyze data in a lab journal. Formal lab reports are also required.

Chemistry I – Honors

Course # 1340 Credit: 1 Indexed

Grades 10 – 12

Prerequisites: Successful completion (B or above average) of Algebra II, Integrated Science & Biology.

Fee: \$ 15.00 fee

This chemistry course meets the pre-college requirements. Chemistry I offers a more rigorous mathematical treatment of chemistry oriented concepts than Chemistry I The laboratory experience and pace of the course are very

demanding and require students to have a good math background. Concepts include: measurement, bonding, nomenclature, reaction types, stoichiometry, gas laws, solubility and acids and bases. In order to be successful, student must keep accurate records and analyze data in a lab journal.

Chemistry II

Course # 1341

Credit: 1 Indexed

Grade Level: 11 – 12

Prerequisites: Honors Chemistry with a B average or above. Chemistry II is open only to students who have completed Chemistry I with a minimum of a “B” average.

Fee: \$ 15.00 fee

This course is laboratory based and teaches student to work efficiently and independently in the chemistry lab. Writing of technical papers and a lab journal are required. Topics include: Thermodynamics, redox reactions and acids.

Chemistry I AP

Course # 1344

Credit: 1 Indexed

Grade Level: 11-12

Prerequisite: Must take both courses in the same year (Chem I AP & II AP). Recommended a B or higher in Honors Chemistry or an A in Chemistry.

Fee: \$ 15.00 fee

Chemistry II AP

Course # 1349

Credit: 1 Indexed

Grade Level: 11-12

Prerequisite: Must take both courses in the same year (Chem I AP & II AP). Recommended a B or higher in Honors Chemistry or an A in Chemistry.

Fee: \$ 15.00 fee

This course is designed to be the equivalent of the first year college general chemistry course. Students will attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course will contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. It is intended for students who have demonstrated a willingness to commit considerable time to studying and completing assignments outside of class, and who have successfully completed a prior course in chemistry during high school. This course will develop the student's ability to incorporate mathematical skills in the solution of chemistry problems, both through the use of textbook problems and laboratory activities. This is a **college class**, with college level expectations for behavior, participation and effort.

Forensic Science (Elective)

Course # 1302

Credit: 1

Grade Level: 9-12

Prerequisite:

Fee: \$ 15.00 fee

This investigative, hands on course will allow student to experience the techniques, reading, writing, and observation skills necessary to pursue a future in forensic science. It will revolve around lab experience and involve writing, reading and research into various historic cases.

This is an elective course.

Geology

Course # 1328

Credit: 1

Grade Level: 9-12

Prerequisite:

Fee: \$ 15.00 lab fee

This course will delve into the study of geology with a focus on specific careers and the knowledge needed for them. It will provide a greater understanding of geologic processes. Topics will include: earth features, earthquakes, volcanoes, crustal movement, rocks, rivers, oceans, erosion, geologic changes.

Integrated Science

Course # 1300

Credit: 1

Grade Level: 9

Prerequisite:

Fee: \$ 15.00 fee

Integrated science provides an introduction into earth science and physical science. It includes topics relating to scientific inquiry, measurement, physical properties, light, sound, electricity, magnetism, force and motion, basic chemistry, astronomy, geology, geochemical cycles, and geological time. Integrated Science is a required course for all students as an entry-level science course.

Integrated Science – Honors

Course # 1305

Credit: 1 Indexed

Grade Level: 9

Prerequisite: Open only to 9th grade students with a 3.5 GPA in 7th and 8th grade science.

Fee: \$ 15.00 fee

Standardized test scores and student academic performance must meet approval of course instructor and science team leader. This course provides an accelerated view of earth science and physical science. It includes topics relating to scientific inquiry, measurement, physical properties, geochemical cycles, geology, astronomy, force, motion, electricity, magnetism, light and basic chemistry. (Enrollment in this course requires student to take Honors Biology as a co-requisite and a total of 4 Science credits).

Science Lab Assitant

Course # 1364

Credit: 1

Grade Level: 11 – 12

Prerequisite: 3.5 GPA or higher, have earned a B average or higher in three honors science classes. The student must also have successfully completed one of the following: Zoology, Anatomy, Physics, AP Biology or AP Chemistry.

Fee: \$ 15.00 fee

This position is designed to give students that are interested in science, medicine or engineering an opportunity to obtain more experience in the science laboratory. In order to be selected the student must be responsible, reliable and trustworthy. Students who are interested in this position must submit a resume to the science department chair before May 1st. Candidates who are being considered must then submit references. The science department will select students based on criteria

society will enable students to understand the preferred democratic values: justice, equality, responsibility, freedom, rule of law, human rights, honesty, equity, rational process and human dignity.

Political Science

Course # 1426 **Credit: 1**

Grade Level: 9 – 12

Prerequisite: None

Political Science is the study of local, national, and foreign political processes. This class will examine how each level of government functions within our society and how citizen's roles and responsibilities affect the local state and national government.

Psychology

Course # 1444 **Credit: 1**

Grade Level: 10 – 12

Prerequisite: None

An introduction to the scientific understanding of human motives and causes of behavior. The aim of the course is to help students obtain a better understanding of themselves and their problems. Study will focus on various personality disorders, both neurotic and psychotic. These problems will be discussed in relation to their causes, both organic and functional. This course will also cover related areas such as criminal psychology.

Psychology – AP

Course # 1442 **Credit: 1 Indexed**

Grade Level: 11 – 12

Prerequisite: Social Studies teachers or counselors must initial schedules of students desiring to take AP

The purpose of AP Psychology is to introduce students to a more in-depth systematic and scientific study of the behavior and mental processes of human beings and other animals. Students will be exposed to the psychological facts, principles, and phenomena associated with each of the major sub-fields to psychology. Students will also learn about the methods of psychological research and the applications of their findings. The course prepares students to take the advanced placement examination in psychology. All students will be highly encouraged to take this examination.

Sociology

Course # 1445 **Credit: 1**

Grades 10-12

Prerequisite:

This class deals with the study of people in groups; how groups behave and how groups affect the lives of individuals and society. It covers such topics as: social change, social organizations, social control, social psychology, community, crime and delinquency, marriage and the family, race and ethnic relation, group behavior and communication, and culture and personality.

US Government and Politics – AP

Course # 1452 **Credit: 1 Indexed**

Grade Level: 12

Prerequisite: Successful completion of U.S. History.

United States Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students successfully completing this course will: • know important facts, concepts, and theories pertaining to U.S. government and politics • understand typical patterns of political processes and behavior and their consequences (including the components of political behavior, the principles used to explain or justify various government structures and procedures, and the political effects of these structures and procedures) • be able to analyze and interpret basic data relevant to U.S. government and politics (including data presented in charts, tables, and other formats) • be able to critically analyze relevant theories and concepts, apply them appropriately, and develop their connections across the curriculum

United States History

Course # 1431 **Credit: 1**

Grade Level: 11 – 12

Prerequisite: This course is required for graduation.

A survey of American History from the Reconstruction Era to the present. A focus of the course will be reading and interpreting historical materials, researching through various uses of technology, and writing for a variety of purposes. Critical thinking skills will be emphasized.

U.S. History I - AP

Course # 1434 **Credit: 1 Indexed**

Grade Level: 11

Prerequisite: Student must also register for Course # 1435. Recommendation from Eng II teacher and previous Soc Studies Teacher. Social studies teacher(s) or a counselor will initial schedules of students desiring to take this course. Student must take both courses (I & II).

U.S. History II – AP

Course # 1435 **Credit: 1 Indexed**

Grade Level: 11

Prerequisite: Student must also register for Course # 1434. Recommendation from Eng II teacher and previous Soc Studies Teacher. Social studies teacher(s) or a counselor will initial schedules of students desiring to take this course. Student must take both courses (I & II).

To be admitted to these courses, a student should have a reading comprehension score of seventy five per cent or above. All students will be encouraged to take the Advanced Placement American History exam (at student's expense). The nature of the course will be a survey type in which college level textbook(s) will be used. In addition, supplementary reading in the form of documents, essays, or books on special themes will be used. The course will provide students with some knowledge of primary sources, including documentary material, maps, statistical table, and pictorial and graphic evidence of historical events. Students will learn to take notes from both printed materials and lectures or discussions, write essay examinations, and write analytical and research papers.

This course will focus on American History from European exploration and colonization to outer space exploration and discovery.

World Civilization

Course # 1420 Credit: 1

Grade Level: 10 – 12

Prerequisite: This course is required for graduation.

This course is a survey of modern civilization since 1500. The aim of the course is to acquaint the student with the relationships of the past and the present; to demonstrate the unity of ideas developed on the evolving family of humanity; and to establish a foundation for developing the principle themes of modern Europe. The course will also emphasize the cultural diversity of peoples from all around the world.

World Geography

Course # 1410 Credit: 1

Grade Level: 9 only

Prerequisite: This course is required for graduation.

A study of the fundamentals of physical geography and the geographic regions of the world with emphasis on map orientation.

WORLD LANGUAGE

The success of a student in a first year language is based on an above-average ability in the understanding of English composition. ***This is an elective and is not a requirement for graduation. Students need to complete 2 credits of the same foreign language to fulfill pre-college curriculum.*** It has been proven that students who successfully complete a study of a foreign language perform better on standardized tests such as the SAT and ACT, strengthening much-needed vocabulary skills. Students at all levels will be encouraged to practice the language in the four skills of speaking, listening, reading and writing while learning about the cultures of other countries.

German I (Fall)

Course # 1621 Credit : 1

Grade Level: 9 -12

Prerequisite: Overall Minimum GPA 2.0

German I & II should be taken in the same year. The beginning course in German introduces students to German vocabulary and grammar. Skills in listening, speaking, writing and reading are learned. There is also a focus on Culture, using comparisons to the U.S. and their own lives. Students will be at the Novice-Low to Novice-Mid proficiency as defined by the ACTFL Guidelines upon completing German I.

German II (Spring)

Course # 1622 Credit: 1

Grade Level: 9-12

Prerequisite: German I - Overall Minimum GPA 2.0

The second course in German builds upon the skills learned in German I. Vocabulary, grammar and culture are expanded. Upon completing German II, students will be at

a Novice-Mid level as defined by the ACTFL guidelines.

German III (Fall)

Course # 1623 Credit: 1 Indexed

Grade Level: 10-12

Prerequisite: German II Overall Minimum GPA 2.0 - Teacher approval.

German III is designed for those who want to continue language study and advance into AP German and subsequent University study. The student will expand vocabulary further and refine writing, reading, and speaking skills. Students will discuss literature, art, and history in German for the Culture component. Upon completing German III, students will be at a Novice-High level as defined by the ACTFL guidelines.

German IV

Course #1624 Credit: 1 Indexed

Grade Level: 10-12

Prerequisite: German III - Overall Minimum GPA 2.0 - Teacher approval

See Below.

German V

Course # 1625 Credit: 1 Indexed

Grade Level: 10-12

Prerequisite: German IV - Overall Minimum GPA 2.0 - Teacher approval

See Below.

German V AP

Course # 1626 Credit: 1 Indexed

Grade Level: 10-12

Prerequisite: German V - Overall Minimum GPA 2.0 - Teacher approval

German IV, German V, and German V AP continue with the curriculum started in German III in which students will improve their vocabulary, writing, speaking, listening and reading skills through German, Austrian and Swiss literature. Students will continue to improve skills at the Novice-High level with the eventual goal to achieve the Intermediate-Low or Intermediate-Mid level as defined by the ACTFL guidelines. Students will develop skills for writing essays on topics of interest and on topics related to the literature. Students will practice AP test materials throughout the semester to ready themselves for the AP. Students must successfully complete the course with a C and take the AP exam to qualify for the Commonwealth Diploma. The AP exam or similar placement test must be taken at the completion of the course to receive weighted credit.

Latin I

Course # 1631 Credit: 1

Grade Level: 9 – 12

Prerequisite: 2.0 GPA

Latin is a subject that has several benefits. It increases logical thinking skills, boosts ACT scores, improves English grammar, spelling, vocabulary, and enables students to gain perspective of American culture through comparison to Roman culture and literature. It also lays a solid

foundation for learning a modern language. It is especially beneficial for those students planning a career in law, science, pharmacy or medicine. The course work in Latin I will encompass beginning work in translating the works of Roman authors, extensive vocabulary development, mythological studies, and cultural research. It is strongly recommended that Latin I & II be taken in the same year.

Latin II

Course # 1632 **Credit: 1**
Grade Level: 9 – 12
Prerequisite: Latin I - 2.0 GPA

Latin II begins with a review of the materials presented in Latin I. Students are introduced to new Latin vocabulary, grammatical structures, and syntax. The Latin readings presented for listening and reading comprehension are based on authentic Latin authors. Students continue to study and to research word derivations, Greco-Roman mythology, history, and culture. It is strongly recommended that Latin I & II be taken in the same year.

Latin III

Course # 1633 **Credit: 1 Indexed**
Grade Level: 10-12
Prerequisite: Completion of Latin I & II, 2.0 GPA and permission of instructor

Latin III begins with a review of the materials learned in Latin I and II. Students are introduced to new Latin vocabulary and to more challenging grammatical structures, such as uses of the subjunctive and indirect statement. Translations become more challenging in order to prepare the students for Latin IV. Students continue to study and to research word derivations, Greco-Roman mythology, history, and culture. N. B. – This course is a weighted Honors course.

Latin IV

Course # 1634 **Credit: 1 Indexed**
Grade Level: 10-12
Prerequisite: Latin I, II, III - 2.0 GPA and permission of instructor.

In Latin IV, students read selections from the *Metamorphoses*, Ovid's stories of mythology, and the *Amores*, short love poems of Ovid. The course includes the study of scansion, vocabulary, figures of speech, uses of imagery, geographical and mythological references, grammar and syntax, and metrical effects. Students will analyze and compare the mythological tales in Ovid to corresponding mythological tales around the world. Students will learn how to analyze and to interpret these myths psychologically in order to understand and to enhance the circumstances and the culture of their lives. N. B. – This course is a weighted Honors course.

Latin V

Course # 1654 **Credit: 1 Indexed**
Grade Level: 10-12
Prerequisite: Latin I, II, III, IV - 2.0 GPA and permission of instructor.

In Latin V, students will read and critically analyze passages from the Roman author, Apuleius, specifically, selections from *Amor et Psyche* and *De Deo Socratis*. Students will review the grammar, syntax, and morphology

of the Latin language through daily translation and review handouts. Students will learn about the religious, societal, and historical context in which Apuleius wrote through reading and summarizing passages from modern scholarly authors as well as several ancient authors, such as Plato and Plotinus, who discuss the nature of love and the soul. Students will engage in and will conduct classical scholarship and research by reading articles from scholarly journals and implementing them in an end of the semester research paper. Students should contact the instructor in the spring semester of Latin IV for a copy of the syllabus and summer reading assignments. N.B. - Students will earn three hours of college credit through Xavier University's *Collegium* program provided that the student earns a grade of "B" or better. This course is weighted like an AP course (1.08).

Latin VI

Course # 1655 **Credit: 1 Indexed**
Grade Level: 10-12
Prerequisite: Latin I, II, III, IV, V - 2.0 GPA and permission of instructor.

In Latin VI, students will read and critically analyze passages from the Roman author, Vergil, specifically, selections from the *Aeneid*, as well as from the Roman poets, Lucretius and Ovid. Students will review the grammar, syntax, and morphology of the Latin language through daily translation and review handouts. Students will learn about the religious, societal, and historical context in which Vergil wrote through reading and summarizing passages from modern scholarly authors as well as from the three major classical epics: *Iliad*, *Odyssey*, and *Aeneid*. Students will engage in and will conduct classical scholarship and research by reading articles from scholarly journals and implementing them in an end of the semester research paper. Students should contact the instructor in the spring semester of Latin IV for a copy of the syllabus and summer reading assignments. N.B. - Students will earn three hours of college credit through Xavier University's *Collegium* program provided that the student earns a grade of "B" or better. This course is weighted like an AP course (1.08).

Spanish I - (Fall)

Course # 1641 **Credit: 1**
Grades 9 – 12
Prerequisite: 2.0 GPA

This Introductory Spanish course is designed for the student who wants a basic understanding of the language and culture. It includes practice in speaking, listening, reading and writing with grammar and vocabulary studies. Geography, history and culture will be included as well through a variety of audio, visual, and print materials. There is a culture project which will be presented at the end of the semester.

Spanish I Honors (Fall Only)

Course # 1638 **Credit: 1 Indexed**
Grade Level: 9 – 12
Prerequisite: 2.5 GPA

Students will be taught the same material as Spanish I, but at a faster pace and with more writing assignments. Students will be expected to perform at a higher rate of

proficiency to prepare them for upper level coursework leading to Advanced Placement.

Spanish II (Spring Only)

Course # 1642 **1 Credit**

Grade Level: 9 – 12

Prerequisite: Successful completion of Spanish I, GPA 2.0 and approval of teacher

This course is a continuation of Level I. Emphasis is on proficiency in the four language skill areas: speaking, listening, reading and writing with additional studies of the Spanish-speaking world. Students will participate in a possible research project on a Spanish-speaking country and in the World Language Festival held in the spring.

Spanish II Honors (Spring Only)

Course # 1639 **Credit: 1 Indexed**

Grade Level: 9 – 12

Prerequisite: Successful completion of Spanish I, GPA 2.5 and approval of teacher

Same as Level II, but at an accelerated pace; this course is for students who plan to continue their study of Spanish beyond the second level. Students will not only participate in the World Language Festival, but also the National Spanish Exam.

Spanish III (Fall Only)

Course # 1643 **Credit: 1 Indexed**

Grade Level: 10 – 12

Prerequisite: C or above in Spanish II Honors or A or B in Spanish II and approval of teacher

See below for description.

Spanish IV (Spring only)

Course # 1644 **Credit: 1 Indexed**

Grade Level: 10-12

Prerequisite: C or above in Spanish III and approval of teacher

Spanish III & IV are Honors Courses geared for the student who wants to become proficient in the language and aspires to enroll in Advanced Placement Spanish. Both courses must be completed consecutively in one year to cover the large amount of vocabulary and advanced structures that are necessary to proceed to the advanced placement level. Students will be required to use the target language on a daily basis to communicate with their peers and teacher in performance events practicing a variety of situations. Students will complete a culture project with a presentation at the end of the fall semester. Weekly writing assignments will be expected in addition to a research project on a Hispanic artist with a presentation in Spanish to the class at the end of the spring semester. Students will not only participate in the World Language Festival, but also the National Spanish Exam. Students who maintain a B+ average will be invited to join the Hispanic Honor Society and will attend the convention in the spring.

Spanish AP - I

Course # 1645 **Credit: 1 Indexed**

Grade Level:

Prerequisite: B in Spanish IV. Must take Spanish AP – I & Spanish AP – II the same year - approval of teacher

Spanish AP - II

Course # 1647

Credit: 1 Indexed

Grade Level:

Prerequisite: B in Spanish IV. Must take Spanish AP – I & Spanish AP – II the same year - approval of teacher

This course is a refinement of all grammar skills, in all four areas of speaking, listening, reading and writing with a complete review of all materials to prepare students for the AP exam. Class will be conducted solely in the target language and students will be writing papers in Spanish of 200 – 250 words in addition to completing a culture project with a presentation to the class. All students will be taking the National Spanish Exam in the spring and also participating in the World Language Festival. Students will practice AP test materials throughout the semester to ready themselves for the AP exam. Students must successfully complete the course with a C and take the AP exam to qualify for the Commonwealth Diploma. The AP exam must be taken at the completion of the course to receive the weighted credit of 1.08.

BOONE COUNTY AREA TECHNOLOGY CENTER

Prerequisite: Approval process through guidance.

AUTO BODY

This program includes introduction to auto body repair, non-structural analysis and damage repair, structural analysis and damage repair, and painting and refinishing. Taught parallel with the lab.

DIESEL

This program focuses on the skills needed to analyze malfunctions and repair, build and maintain construction equipment, farm equipment, or medium and heavy trucks. This program includes climate control, computer fundamentals, mechanical concepts, introduction to diesel engines, and introduction to maintenance welding. Taught parallel with the lab.

ELECTRICITY

Involves the study of materials and procedures used in construction wiring. Taught parallel with the lab.

HEALTH SCIENCES

This program 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.

METAL FAB

This course introduces various types of sheet metal designs, fabrication, and fastening techniques used in the sheet metal industry.

WELDING

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

CAREER CLUSTERS

On the following pages you will see information about the 14 career clusters. This information is included to help guide a student to selecting the appropriate elective classes. Career Clusters are the building blocks of our curriculum. These clusters provide options for curriculum and can assist students in making lifelong choices. When students choose a career cluster to focus on, they have a much clearer path to follow for their future.

There are 14 career clusters, each of which provides Conner High School a way to organize instruction and student experiences within that academic area. These clusters encompass virtually all occupations from entry through professional levels.

This document is designed to provide information on recognized career clusters and career majors. We hope this document can serve as a guide to assist students and their parents in developing an understanding of all career clusters and their relationship to specific careers.

The career major can be the central focus for developing the Individual Graduation Plan, selecting high level academic and career-related courses which will help prepare students for transition to postsecondary education, work, or the military.

Choosing a career cluster and/or a career major involves several steps: assessing interests and skills, adding transferable skills as one move through the educational process, and preparing for a specific occupation. To assist in the selection of a career cluster students should gather and carefully consider information about several topics. Among them are the following:

1. **Self-Assessment** – Students learn about themselves by finding out about interests (recreation, sports, academic, etc.), aptitudes, learning styles, and work and life values. Personal preferences also play an important part in choosing a career cluster or career major.
2. **Characteristics of Career Clusters** – Learning about and comparing the basic features of career clusters will enable students to narrow the choices available. Resources that may be helpful in the process include: printed descriptions, videos, software programs, internet and firsthand experiences (internship, job shadowing, career days/fairs, mentors).
3. **Trends in the Workforce** – Students should become aware of the nature of the economy (e.g., reductions in industries) and the changing structures of business and industry (e.g., project-oriented groups). Knowledge about projections of demand for employees in comparison with the number of workers available in occupations should also be considered in the selection process.
4. **Educational Requirements** – For career majors that require education beyond the secondary level, students should be aware of postsecondary programs and their requirements.

| Agriculture | |
|--|--|
| Prepare and support individuals for careers, build awareness, and develop leadership for the food, fiber, and natural resource systems. | |
| Possible careers: Zoologist, horticulturalist, veterinarian, florist, farmer, greenhouse employee, landscaper, turf manager, forest ranger | |
| Horticulture | Agriculture Production |
| GREENHOUSE TECH. (9-12) FLORAL DESIGN I (9-12) LAND & TURF MGMT. (9-12) | ANIMAL TECHNOLOGY (SMALL ANIMAL) (9-12) EQUINE SCIENCE (9-12) |
| Related Courses | |
| WEB DESIGN - ADV. (11-12) WEB DESIGN PRACT I (11-12) WEB DESIGN PRACT II (11-12) | VISUAL BASIC (10-12) |

| Arts & Humanities | | |
|--|---|--|
| Prepare individuals for creating, performing, and conducting literary, artistic, entertaining, and sporting activities, or to explore man and his culture through the study of philosophy, religion, literature, or language. | | |
| Possible careers: Artist, Curator, Art Historian, Critic, Artisan Teacher, Game Designer, Vocal Artist, Music Recorder or Producer, Composer, Band Member, Performer, Teacher Composer. | | |
| Visual Art | Performing Arts | Creative Writing |
| VISUAL ARTS I - Introduction to Art (9-12) DRAWING I-IV (9-12) SCULPTURE I-IV(9-12) PAINTING I-IV (9-12) ADVANCED ART I-IV (9-12) COMPUTER GRAPHICS I-IV (9-12) PHOTOGRAPHY I-IV(9-12) COMP. PROG. - GAME DESIGN (10-12) YEARBOOK I-IV (11-12) | <p>Vocal:</p> CHORUS(9) & MIXED B (9-12) MIXED CHORUS A & B (10-12) WOMEN'S CHOIR A & B (10-12) CHAMBER CHOIR A & B(10-12) | CREATIVE WRITING (9-12) POETRY (9-12) FOUNDATIONS OF WRITING (9-12) AP LIT & COMP - A & B (11-12) |
| | <p>Instrumental Music:</p> PERCUSSION ENSEMBLE A & B(9-12) BAND-SYMPHONIC A & B (9-12) STRING ORCHESTRA A & B(9-12) CONCERT BAND A & B (9-12) | |
| | <p>Theater & Film:</p> SPEECH/DRAMA (9-12) MEDIA INTRO (9-10) INTRO TO FILM - FILM STUDIES (10-12) | |
| Related Courses | | |
| FLORAL DESIGN I (9-12) NEWS/JOURNALISM I-IV(11-12) SPORTS & EVENT MKTG (11-12) COMP. PROG. - GAME DESIGN (10-12) | | PSYCHOLOGY (10-12) SPANISH I-IV (9-12) LATIN I-IV(9-12) |

| Business and Marketing | | |
|--|---|---|
| Prepare individuals to perform managerial, research, and technical support functions of business and prepare individuals to plan and execute the buying, selling, promotion, and distribution of ideas, goods, and services. | | |
| Possible Careers: Accountant, Stock Broker, Analyst, Auditor, Finance Director, Accounts Payable, Bank Teller, Marketing, Advertising, Public Relations, and Entrepreneur | | |
| Financial Services | Marketing | Management |
| COMPUTER&TECH APPLIC (9-12) OR MOS (10-12) ACCT & FINANCE FOUNDATIONS (10-12) FINANCIAL ACCTG (10-12) FINANCIAL SERVICES (11-12) | COMPUTER&TECH APPLIC (9-12) OR MOS (10-12) PRINCIPLES OF MARKETING (9-12) SPORTS & EVENT MKTG (11-12) BUSINESS LAW (11-12) | COMPUTER&TECH APPLIC (9-12) OR MOS (10-12) ACCT & FINANCE FOUND (10-12) LEADERSHIP DYNAMICS (11-12) INTERNATIONAL BUSINESS (10-12) |
| Related Courses | | |
| PROBABILITY & STAT (11-12) AP STATISTICS I-II (11-12) PSYCHOLOGY (10-12) | MATH FOR BUSINESS AND INDUSTRY (10-12) | SOCIOLOGY (10-12) SPEECH/DRAMA (9-12) PRINCIPLES OF TEACHING (11-12) |

| Communications | |
|--|---|
| Prepare individual to apply technical knowledge and skills to effectively communicate ideas and information. | |
| Possible Careers: Newspaper Editor, Feature Writer, Editor, Copywriter, Critic, Publicist, Photojournalist, Broadcaster, News Reporter, Anchorperson, Weather Reporter | |
| Print Journalism | Broadcast Journalism |
| COMPUTER&TECH APPLIC (9-12) OR MOS (10-12) PRINCIPLES OF MARKETING (9-12) MULTIMEDIA PUBLISHER (10-12) NEWS/JOURNALISM I-IV (11-12) YEARBOOK I-IV (11-12) | COMPUTER&TECH APPLIC (9-12) OR MOS (10-12) PRINCIPLES OF MARKETING (9-12) MULTIMEDIA PUBLISHER (10-12) PROMOTIONAL APPL & M (11-12) SPORTS & EVENT MKTG (11-12) |
| Related Courses | |
| COMP SCIENCE-INTRO (10-12) PHOTOGRAPHY I-IV (9-12) CREATIVE WRITING (9-12) MATH FOR BUSINESS AND INDUSTRY (10-12) | COLLEGE PREP ALGEBRA (12) GLOBAL ISSUES (9-12) ADVANCED HEALTH TOPICS (9-12) PHYSICS (11-12) SPEECH/DRAMA (9-12) PRE-CALCULUS I (11-12) OR CALCULUS I - AP (11-12) |

| Construction | |
|---|---|
| Prepare individuals to apply technical knowledge and skills in the constructing, inspecting, and maintaining of structures and related properties. | |
| Possible careers: Machinist, farmer, manufacturer, maintenance supervisor, carpenter, electrician, welder, mason, construction project supervisor | |
| Mechanical Design | Construction |
| ATC Electives: | ATC Electives: |
| AREA TECHNOLOGY CENTER -ELECTRICITY PROGRAM (11-12) AREA TECHNOLOGY CENTER -METAL FABRICATION PROGRAM (11-12) AREA TECHNOLOGY CENTER -WELDING PROGRAM (11-12) | AREA TECHNOLOGY CENTER -ELECTRICITY PROGRAM (11-12) AREA TECHNOLOGY CENTER -METAL FABRICATION PROGRAM (11-12) AREA TECHNOLOGY CENTER -WELDING PROGRAM (11-12) |
| Technology Electives: | Technology Electives: |
| ADV. DES. APP. CIVIL. ENG/ARCH (10-12) ADV. DES. APP-AEROSPACE ENG. (10-12) FOUNDATIONS OF TECHNOLOGY (9-11) SPEC. TOPICS, TECH. ED. (12) TECH. DESIGN/INTRO. TO CAD (9-11) | ADV. DES. APP. CIVIL. ENG/ARCH (10-12) ADV. DES. APP-AEROSPACE ENG. (10-12) FOUNDATIONS OF TECHNOLOGY (9-11) SPEC. TOPICS, TECH. ED. (12) TECH. DESIGN/INTRO. TO CAD (9-11) |
| Related Courses | |
| COLLEGE PREP ALGEBRA (12) MATH FOR BUSINESS AND INDUSTRY (10-12) | |

| Education | |
|---|--------------------------------------|
| Prepare individuals for the practice of learning and teaching, and related research, administrative and support services. | |
| Possible careers: Teacher, day care worker, recreation coordinator | |
| Education | |
| PARENTING/CHILD DEV (10-12) OR CHILD/HUMAN DEVEL (11-12) COMPUTER&TECH APPLIC (9-12) CREATIVE WRITING (9-12) CPR/FIRST AID (9-12) FOUNDATIONS OF WRITING (9-12) PRINCIPLES OF TEACHING (11-12) RELATIONSHIPS (10-12) PROBABILITY & STAT (11-12) PSYCHOLOGY (10-12) SOCIOLOGY (10-12) | |
| Related Courses | |
| COLLEGE PREP ALGEBRA (12) | CONTEMP. U.S. HISTORY 50s/80s (9-12) |
| GLOBAL ISSUES (9-12) | SPORTS & EVENT MKTG (11-12) |
| SPEECH/DRAMA (9-12) | |

| Health | |
|---|---|
| Prepare individuals to apply technical knowledge and skills for maintenance of health, prevention of illness, and care of the ill. | |
| Possible careers: Nurse, physical therapist, EMT, medical technician, athletic training | |
| Medical | Health Science |
| ADVANCED HEALTH TOPICS (9-12) ANATOMY (11-12) COMPONENTS OF FITNES (10-12) COMPUTER&TECH APPLIC (9-12) CREATIVE WRITING (9-12) CPR/FIRST AID (9-12) FORENSIC SCIENCE (9-12) NUTRITIONAL & FOODS SCIENCE (10-12) PROBABILITY & STAT (11-12) PSYCHOLOGY (10-12) SOCIOLOGY (10-12) | AREA TECHNOLOGY CENTER - HEALTH SCIENCE PROGRAM (11-12) |
| Related Courses | |
| COLLEGE PREP ALGEBRA (12) | PHYSICS (11-12) |
| GLOBAL ISSUES (9-12) | SPEECH/DRAMA (9-12) |
| HEALTH SCIENCES (11-12) | PRE-CALCULUS I (11-12) OR CALCULUS I - AP (11-12) |

| Human Services | |
|--|---|
| Prepare individuals for employment in occupations that relate to families and human needs. | |
| Possible careers: chef, food services, caterer, dietitian, doctor, veterinarian, surgeon, anesthesiologist, physical therapist, pharmacist, forensic scientist, psychiatrist | |
| Culinary | Medical Science |
| CULINARY SKILLS (10-12) COMPUTER&TECH APPLIC (9-12) CREATIVE WRITING (9-12) CPR/FIRST AID (9-12) FOODS I (10-12) LIFE SKILLS (9-10) NUTRITIONAL & FOODS SCIENCE (10-12) PSYCHOLOGY (10-12) SOCIOLOGY (10-12) | Medical Science: ANATOMY (11-12) BIOLOGY I HONORS (9-10) BIOLOGY I OR II AP (11-12) CHEMISTRY II (11-12) CHEMISTRY I OR II AP (11-12) PHYSICS (11-12) Veterinary Science: ANIMAL TECHNOLOGY (SMALL ANIMAL) (9-12) EQUINE SCIENCE (9-12) ZOOLOGY (11-12) Forensic Science: FORENSIC SCIENCE (9-12) SOCIOLOGY (10-12) LAW AND JUSTICE (9-12) |
| Related Courses | |
| COLLEGE PREP ALGEBRA (12) SPEECH/DRAMA (9-12) | AP STATISTICS I & II (11-12) PRE-CALCULUS I - II (11-12) CALCULUS I - II AP (11-12) PROBABILITY & STAT (11-12) ADVANCED HEALTH TOPICS (9-12) |

| Information Technology | | |
|--|---|---|
| Prepare individuals to apply technical knowledge and skills in the rapidly growing occupational fields of computer networking, programming, digital media, support services and e-commerce/web design. | | |
| Possible careers: Webmaster, Web designer, E-Commerce, Computer Game Designer, Technician, GIS, Analyst, LAN Administrator, Data Recovery, Computer Programmer, Computer Systems Analyst | | |
| Web Design | Computer Maintenance & Support | Programming |
| COMPUTER&TECH APPLIC (9-12) OR MOS (10-12) COMP SCIENCE-INTRO (10-12) OR VISUAL BASIC (10-12) WEB DESIGN - ADV. (11-12) WEB DESIGN PRACT I (11-12) WEB DESIGN PRACT II (11-12) | COMPUTER&TECH APPLIC (9-12) OR MOS (10-12) A+ CORE HARDWARE (10-12) A+ CORE SOFTWARE (10-12) COMP SUPPORT ESS (10-12) EXPLORING COMP-SPEC TOPIC (9-12) HELP DESK (10-12) | COMPUTER&TECH APPLIC (9-12) OR MOS (10-12) VISUAL BASIC (10-12) COMP SCIENCE-INTRO (10-12) COMP SCIENCE A AP (10-12) COMP. PROG. - GAME DESIGN (10-12) |
| Related Courses | | |
| COLLEGE PREP ALGEBRA (12) GLOBAL ISSUES (9-12) PHYSICS (11-12) PROBABILITY & STAT (11-12) Math Electives | | SPEECH/DRAMA (9-12) PRE-CALCULUS I (11-12) / CALCULUS I - AP (11-12) FORENSIC SCIENCE (9-12) PHOTOGRAPHY I-IV (9-12) COMPUTER GRAPHICS I-IV (9-12) Science Electives |

| Manufacturing | |
|--|---|
| Prepare individuals to apply technical knowledge and skills in the production, maintenance, assembly, or repair of products. | |
| Possible careers: architect, civil engineer, physicist, computer scientist, electrical engineer, mechanical engineer, aerospace engineer | |
| AREA TECHNOLOGY CENTER -AUTO BODY PROGRAM (11-12) AREA TECHNOLOGY CENTER -ELECTRICITY PROGRAM (11-12) | AREA TECHNOLOGY CENTER -DIESEL TECHNOLOGY PROGRAM (11-12) AREA TECHNOLOGY CENTER -METAL FABRICATION PROGRAM (11-12) AREA TECHNOLOGY CENTER -WELDING PROGRAM (11-12) |
| Related Courses | |
| ADV. DES. APP. CIVIL. ENG/ARCH (10-12) ADV. DES. APP-AEROSPACE ENG. (10-12) MATH FOR BUSINESS AND INDUSTRY (10-12) | FOUNDATIONS OF TECHNOLOGY (9-11) SPEC. TOPICS, TECH. ED. (12) TECH. DESIGN/INTRO. TO CAD (9-11) |

| Public Services | |
|--|---|
| Prepare individuals to analyze, manage, and deliver public service programs including protective services such as police, fire and safety, postal services, and public utilities | |
| Possible careers: Social worker, counselor, psychologist, sociologist, attorney, judge, police officer, FBI agent, private investigator | |
| Social | Legal |
| CHILD/HUMAN DEVEL (11-12) COMPUTER&TECH APPLIC (9-12) SPEECH/DRAMA (9-12) FOUNDATIONS OF WRITING (9-12) CPR/FIRST AID (9-12) FORENSIC SCIENCE (9-12) PARENTING (10-12) RELATIONSHIPS (10-12) PROBABILITY & STAT (11-12) PSYCHOLOGY (10-12) SOCIOLOGY (10-12) | BUSINESS LAW (11-12) COMPUTER&TECH APPLIC (9-12) CREATIVE WRITING (9-12) CPR/FIRST AID (9-12) FORENSIC SCIENCE (9-12) FOUNDATIONS OF WRITING (9-12) PROBABILITY & STAT (11-12) PSYCHOLOGY (10-12) SOCIOLOGY (10-12) LAW AND JUSTICE (9-12) |

Science & Mathematics

Prepare individuals to apply scientific principles and mathematical knowledge and technical skills to research and development.

Possible careers: Architect, civil engineer, chemical engineer, physicist, computer scientist, electrical engineer, mechanical engineer, chemical engineer, aerospace engineer, environmental scientist, horticulturalist, farmer, greenhouse employee, landscaper, turf manager, ecologist, forest ranger

| Pre-Engineering | Environmental Science | Biological Science |
|---|---|--|
| <p align="center">Science Electives:</p> <p>ASTRONOMY (10-12)</p> <p>PHYSICS (11-12)</p> <p>CHEMISTRY (10-12)</p> <p>CHEMISTRY I AP (11-12)</p> <p align="center">Math Electives:</p> <p>ALGEBRA II ACC. (10-11)</p> <p>PRE-CALCULUS I (11-12) / CALCULUS I - AP (11-12)</p> <p>AP STATISTICS I, II (11-12)</p> <p align="center">Technology Electives:</p> <p>ADV. DES. APP. CIVIL. ENG/ARCH (10-12)</p> <p>ADV. DES. APP-AEROSPACE ENG. (10-12)</p> <p>FOUNDATIONS OF TECHNOLOGY (9-11)</p> <p>SPEC. TOPICS, TECH. ED. (12)</p> <p>TECH. DESIGN/INTRO. TO CAD (9-11)</p> <p align="center">Computer Electives:</p> <p>COMP SCIENCE-INTRO (10-12)</p> <p>COMP SCIENCE A AP (10-12)</p> | <p align="center">Science Electives:</p> <p>GEOLOGY (9-12)</p> <p>BIOLOGY I HONORS (9-10) OR BIOLOGY I-AP (11-12)</p> <p>ASTRONOMY (10-12)</p> <p align="center">Agr-Science Electives:</p> <p>GREENHOUSE TECH. (9-12)</p> <p>LAND & TURF MGMT. (9-12)</p> <p>PRINCIPLES OF AGRIC. (9)</p> <p align="center">Math Electives:</p> <p>PROBABILITY & STAT (11-12)</p> <p>AP STATISTICS I (11-12) / AP STATISTICS II (11-12)</p> | <p align="center">Biological Science Electives:</p> <p>BIOLOGY I HONORS (9-10)</p> <p>BIOLOGY II AP (11-12)</p> <p>CHEMISTRY II (11-12)</p> <p>CHEMISTRY I AP (11-12) OR CHEMISTRY II AP (11-12)</p> <p>ANIMAL TECHNOLOGY (SMALL ANIMAL) (9-12)</p> <p>EQUINE SCIENCE (9-12)</p> <p>UK-AP Large Animal Science (11-12)</p> <p align="center">Earth Science Electives:</p> <p>GEOLOGY (9-12)</p> <p>GREENHOUSE TECH. (9-12)</p> <p>FLORAL DESIGN I (9-12)</p> <p>PRINCIPLES OF AGRIC. (9)</p> <p>LAND & TURF MGMT. (9-12)</p> <p align="center">Math Electives:</p> <p>ALGEBRA II ACC. (10-11)</p> <p>PROBABILITY & STAT (11-12)</p> <p>AP STATISTICS I (11-12) / AP STATISTICS II (11-12)</p> <p>PROBABILITY & STAT (11-12)</p> <p>AP STATISTICS I (11-12) / AP STATISTICS II (11-12)</p> |
| Related Courses | | |
| <p>WEB DESIGN - ADV. (11-12)</p> <p>WEB DESIGN PRACT I (11-12)</p> <p>WEB DESIGN PRACT II (11-12)</p> <p>WEB PAGE DESIGN I (11-12)</p> <p>VISUAL BASIC (10-12)</p> <p>A+ CORE HARDWARE (10-12)</p> <p>A+ CORE SOFTWARE (10-12)</p> <p>VISUAL ARTS I - Introduction to Art (9-12)</p> <p>DRAWING I-IV (9-12)</p> | | <p>COMPUTER GRAPHICS I-IV (9-12)</p> <p>NUTRITIONAL & FOODS SCIENCE (10-12)</p> <p>ADVANCED HEALTH TOPICS (9-12)</p> <p>COMPONENTS OF FITNESS (10-12)</p> <p>CPR/FIRST AID (9-12)</p> |

| Social Sciences | |
|---|--|
| Prepare individuals to study people and the culture in which they live, and to conduct research into human behavior including abnormal behavior politics language, lifestyle, and work. | |
| Possible careers: Politician, Historian, Anthropologist, Government Agent, Teacher , Ambassador, Linguist, Government Agent | |
| American Studies | International Studies |
| PSYCHOLOGY (10-12) GLOBAL ISSUES (9-12) SOCIOLOGY (10-12) CONTEMP. U.S. HISTORY 50s/80s (9-12) U.S. HISTORY I AP (11) OR U.S. HISTORY II - AP (11) LAW AND JUSTICE (9-12) AP U.S. GOVT AND POLITICS (11-12) | GLOBAL ISSUES (9-12) SOCIOLOGY (10-12) PSYCHOLOGY (10-12) PSYCHOLOGY - AP (11-12) EUROPEAN HIST I AP (10-12) OR EUROPEAN HIST II AP (10-12) HUMAN GEOGRAPHY AP (9-12) |
| Related Courses | |
| PSYCHOLOGY (10-12) SPANISH I-IV (9-12) | LATIN I-IV (9-12) |

| Transportation | |
|--|---|
| Prepare individuals to apply technical knowledge and skills to maintain and repair aircraft, land vehicles, marine vessels, construction equipment and portable power equipment, and to provide other services for transporting people or materials. | |
| Possible careers: | |
| AREA TECHNOLOGY CENTER -AUTO BODY PROGRAM (11-12) AREA TECHNOLOGY CENTER -ELECTRICITY PROGRAM (11-12) | AREA TECHNOLOGY CENTER -DIESEL TECHNOLOGY PROGRAM (11-12) AREA TECHNOLOGY CENTER -METAL FABRICATION PROGRAM (11-12) AREA TECHNOLOGY CENTER -WELDING PROGRAM (11-12) |
| Related Courses | |
| ADV. DES. APP. CIVIL. ENG/ARCH (10-12) ADV. DES. APP-AEROSPACE ENG. (10-12) | FOUNDATIONS OF TECHNOLOGY (9-11) SPEC. TOPICS, TECH. ED. (12) TECH. DESIGN/INTRO. TO CAD (9-11) |