

COAL CITY HIGH SCHOOL



2026-2027 CURRICULUM GUIDE

This book contains information about the career paths offered at Coal City High School. Each career path description identifies representative employment opportunities for which the student will be prepared after completion of high school and postsecondary education. In addition, a recommended sequence of courses is provided for each path. Detailed descriptions of courses are included in this book. Students can select the career path that will prepare them to attain their goals by following the prescribed sequence of courses. In completing a career path, the student will develop skills and knowledge necessary to apply for entry-level employment or be prepared to pursue additional postsecondary education at a college or university, community college, trade school, or apprenticeship program. Beginning in January, counselors and teachers will assist students in the selection of courses for the following year. Parents are encouraged to contact their child's counselor to assist in this process. Following completion of registration, parents will be mailed a copy of the courses selected by the student. Please note that courses will only run if enrollment is sufficient. If

any course is canceled, an alternate

course will be scheduled. Students and parents are encouraged to contact a school counselor if they have any questions regarding course selection or the registration process.

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GRADUATION REQUIREMENTS

English	4 Credits (which includes 2 credits of intensive writing courses)
Mathematics	3 Credits (3 different Math courses must be passed, with Algebra and Geometry being two. Math must be taken both the fall and spring semesters during the Freshman, Sophomore, and Junior year.)
Science	3 Credits (one of the credits must be Biology)
Social Studies	2.5 Credits (Starting with class of 2029) (must include Current Events/AP Human Geo., U.S. History/AP US History and Civics/AP Government) Each student must pass an examination of the Federal and State Constitutions, Declaration of Independence, and the proper use and display of the American Flag.
Fine and Applied Arts	2 Credits (Courses taken in Art, Music, Foreign Language, or Career/Technical Education satisfy this requirement.)
Physical Education	½ Credit of Health Physical Education must be taken every semester (Unless waiver requirement is met or a State Medical Exemption is granted)
Miscellaneous	½ Credit Personal Finance or Economics ½ Credit College and Career Exploration* *Beginning with the Class of 2025
28 total credits are required for the Coal City High School Diploma	

ACADEMIC INFORMATION

Grade Level Advancement

Students are classified by grade level according to the following procedures:

To have **Sophomore** status--

a student must have successfully earned 6 credits, including 2 semesters of English, 2 semesters of Math, and 2 semesters of Science.

To have **Junior** status--

a student must have successfully earned 13 credits, including 4 semesters of English, 4 semesters of Math, and 4 semesters of Science.

To have **Senior** status--

a student must have successfully earned 20 credits, including 6 semesters of English, 6 semesters of Math, and 6 semesters of Science.

Student credits will be evaluated at the beginning of each semester for the purpose of advancing to the next grade level.

On-Track Freshman Standard

If a freshman student receives a failing grade in a core class (English, Math, Science, or Social Studies), he/she will be provided with an opportunity for remediation to relearn the failed standard(s) prior to the end of the semester.

Transfer Students

When a student transfers to Coal City High School, a request will be made for an official transcript of all previously earned units of credit. The school counselor shall evaluate the units of credit with respect to Coal City graduation requirements. The principal or designee shall approve any exceptions to Coal City High School requirements.

Advanced Placement Program

Coal City High School participates in the Advanced Placement Program sponsored by the College Entrance Examination Board. The purpose of the program is to allow qualified students to take college-level courses while still in high school. CCHS offers the following AP courses: AP Calculus, AP Language and Composition, AP English: Literature and Composition, AP Chemistry, AP Physics, AP Studio Art, AP Computer Sciences, AP Human Geography, AP World History, AP US History, AP Government, and AP Spanish. Students enrolling in an AP course will be expected to take the Advanced Placement Examination in May. There is a fee to take the AP Exams. Instructors will assist students in signing up for the exam.

Dual Credit Courses Partnership with Joliet Junior College

Benefits of Dual Credit

- By becoming a dual credit student you now can obtain a JJC student ID card at the Main Campus, Photo I.D. Services or the Romeoville Campus Resource Center. The JJC ID card provides many benefits, such as: JJC library card, access to several on-campus computer labs, as well as local business discounts. Your ID card is an acceptable form of identification in Testing Services (formerly Academic Skills Center), iCampus Testing Center, cafeteria and the JJC Bookstore.
- Reduces overall college costs. Beginning in Fall 2023, JJC dual credit courses will cost \$12 per credit hour. Students that qualify for Free and Reduced Lunch at their high school will not be charged for any dual credit course. (subject to change)
- Complete your college degree quicker. Dual credit students will complete their degrees in less time.
- Enhanced curriculum for high school students. The addition of college coursework to high school curricula expands the options available to high school students while adding college level rigor.
- These courses make for an easy transition between high school and college. Dual credit courses help prepare students for the transition to college by engaging them in college level work and developing pathways to degree attainment.
- High school students are able to obtain college credit prior to graduation.
- Students enjoy the convenience of taking JJC dual credit courses within their high school daytime schedule.
- Dual credit courses are transferable JJC courses. The student will receive a JJC transcribed grade upon completion of their dual credit course.
- **Starting with the 2024-2025 school year, Dual Credit will be available for all grade levels.**

ACADEMIC INFORMATION

Registration & Scheduling Guidelines

Registration Guidelines

- ALL students must be enrolled as a full-time student (8 total credits per year).
- Students must be enrolled in two (2) semesters of Math during the Freshman, Sophomore, and Junior year.
- Students will not be allowed to take more than one Physical Education course each semester.
- Only Seniors will be allowed to serve as teacher/office assistants or tutors.
 - Seniors can only be assigned one teacher/office assistant or tutoring period in the same semester.

Schedule Changes

Course registration is an important decision that a student makes each year. Registration determines the classes the school will offer, development of student scheduling, and how the school will utilize staff. *****Students are to carefully select courses during the enrollment period in the spring and are encouraged to confer with their parents, counselor and teachers before making their final selections.**

Schedule changes will **ONLY** be made for these reasons:

- A specific course is needed for graduation or college admission.
- Student does not meet the prerequisite for a class.
- Student has failed a course; must retake the class.
- There is a schedule conflict.
- School personnel initiate the change.
- Schedule has a clerical error such as incorrect level or incorrect course sequence.

These types of changes will be made during the first 4 days of each semester unless approved by the Administration under the above guidelines.

Schedule changes will **NOT** be made for these reasons:

- Student has changed his/her mind regarding the elective class(es) chosen.
- Student would like to switch lunch periods.
- Student would like to change the teacher(s) he/she has been assigned.
- Student is concerned that taking the class will negatively impact his/her GPA.
- Student would like to drop because credit is no longer needed.

Exceptions to the above guidelines will be by Administrative approval only.

ACADEMIC INFORMATION

College Entrance Requirements

Students who plan to attend a college or university after graduation should understand that academic coursework is a very important factor in college admissions. In addition to class rank, cumulative grade point average, and college entrance exam scores (ACT or SAT), high school coursework will be a determining factor in whether or not a student is accepted for admission. It is recommended that students planning to attend state colleges or universities follow these guidelines:

- 4 credits of English (emphasizing written and oral communications and literature)
- 3 credits of Mathematics (introductory through advanced algebra, geometry and Algebra 2)
- 3 credits of Science (laboratory sciences)
- 3 credits of Social Science (emphasizing history, government and economics)
- 2 credits of electives in Foreign Language, Music, Career & Technical Education or Art

GRADING SCALE

Letter Grade	Percent	GPA	Weighted GPA
A+	100-98	4.3	5.3
A	98-94	4	5
A-	93-90	3.7	4.7
B+	89-88	3.3	4.3
B	87-84	3	4
B-	83-80	2.7	3.7
C+	79-78	2.3	3.3
C	77-74	2	3
C-	73-70	1.7	2.7
D+	69-68	1.3	2.3
D	67-64	1	2
D-	63-60	0.7	1.7
F	59 & Below	0	0

ACADEMIC PATHWAYS

Agriculture Education

****Agriculture, Food & Natural Resources***

Career Pathways:

- Food Products & Processing Systems
- Plants Systems
- Animal Systems
- Power, Structural & Technical Systems
- Natural Resources Systems
- Environmental Service Systems
- Agribusiness Systems

Related Elective Courses: Foods 1, Foods 2, Engineering Technology, Introduction to Business, Business Management, Business Law, Entrepreneurial Publishing, Environmental Science, Science in the Modern World, STEM, Agriculture I & II (GAVC), Culinary Arts (GAVC)

Business, Marketing & Computer Education

****Government & Public Administration***

Career Pathways:

- Governance
- National Security
- Foreign Services
- Planning
- Revenue & Taxation
- Regulation
- Public Mngmnt & Admin

****Marketing***

Career Pathways:

- Marketing Management
- Professional Sales
- Merchandising
- Marketing Communications
- Marketing Research

Career Pathways:

- General Management
- Business Info. Management
- Human Resources Mngmnt
- Operations Management
- Administrative Support

****Information Technology***

Career Pathways:

- Networking Systems
- Inform. Support & Services
- Web & Digital Comm.
- Program & Software Develop

****Finance***

Career Pathways:

- Securities & Investments
- Banking Services
- Business Finance
- Accounting
- Insurance

****Business Management & Admin.***

Related Elective Course: Microsoft Office, Introduction to Business, Business Management, Business Law, Entrepreneurial Publishing, Desktop Publishing, Accounting 1 & 2, AP Government, AP Calculus, Stats, AP Stats, Spanish 1-AP, Sports Marketing, Personal Finance

Technology & Engineering Education

****Architecture & Construction***

Career Pathways:

Design/Pre-Construction
Construction
Maintenance/Operations

****Arts, Audio/Video Technology & Communication***

Career Pathways:

Audio & Video Tech & Film
Printing Technology
Journalism & Broadcasting
Telecommunications
Performing Arts
Visual Arts

****Law, Public Safety, Corrections & Security***

Career Pathways:

Correction Services
Emergency & Fire Mngmnt
Security & Protection
Law Enforcement Services
Legal Services

****Manufacturing***

Career Pathways:

Production
Manufact., Product Develop.
Maintenance, Install & Repair
Quality Assurance
Logistics & Inventory Control
Health, Safety & Envir. Assoc

****Science, Technology, Engineering & Mathematics***

Career Pathways:

Engineering & Technology
Science & Math

****Transportation, Distribution & Logistics***

Career Pathways:

Transportation Operations
Logistics Planning & Mngmnt
Warehouse & Distribution
Facility & Mobile Equipment
Transportation Syst. Mngmnt
Safety & Environ. Mngmnt
Sales & Service

Related Elective Courses: Small Engines & Automotive, Woods 1, Woods 2, Woods 3, Residential DIY, Engineering Tech., Business Law, Multimedia, Intro. To Computer Science, AP Computer Science, STEM, Forensic Science, AP/Physics, PreCalculus, AP Calculus, Art Foundations, Drawing, Painting, Ceramics, Sculpture, Studio 1 & 2, AP Studio Art, Concert Band/Chorus (*Performing Arts pathway), Keyboarding, Criminal Justice 1 & 2(GAVC), Fire Science 1 & 2 (GAVC), Multimedia & Graphic Designs (GAVC), OET program (JJC/Senior year), AIM program (JJC/Senior year), Heavy Equipment (Wilco)

Family & Consumer Sciences

****Education & Training***

Career Pathways:

Admin. & Admin. Support
Professional Support
Teaching/Training

****Human Service***

Career Pathways:

Early Childhood Develop
Counseling & Mental Health

Family & Community
Personal Care Services
Consumer Services

****Hospitality & Tourism***

Career Pathways:

Restaurants & Food/Bev.
Lodging
Travel & Tourism
Recreation, Amuse. & Attract

Related Elective Courses: General Psychology, Sociology, Child Development 1 & 2, Early Childhood Education 1& 2 (GAVC). Foods 1&2, Hospitality Management, Culinary Arts (GAVC), Personal Living, Sewing

Health Sciences Technology

****Health Science***

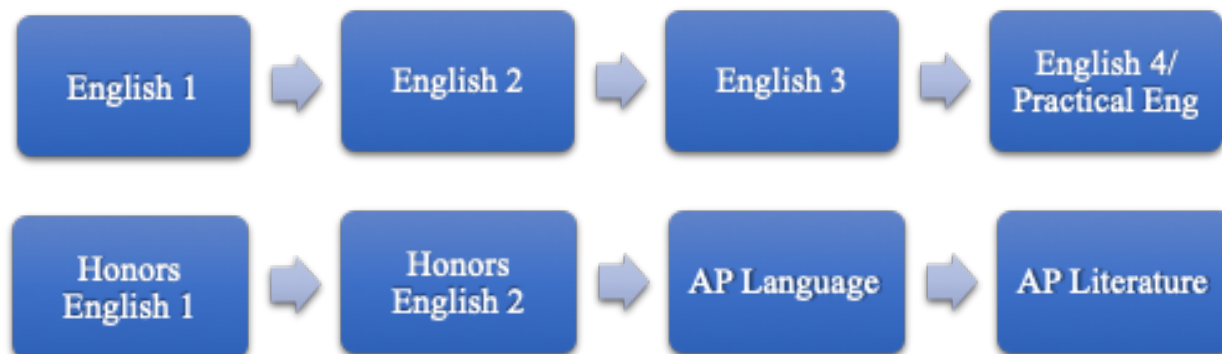
Career Pathways:

Diagnostic Services
Support Services
Health Informatics
Therapeutic Services
Biotechnology Research & Development

Related Elective Courses: Child Development 1 & 2, General Psychology, Sociology, Statistics, Human Anatomy & Physiology, AP Biology, AP Chemistry, Health Occupations 1, Health Occupations 2

COURSE DESCRIPTIONS AND SEQUENCE

ENGLISH DEPARTMENT



ENGLISH 1 (Writing Intensive)

Grade 9

2 Sem. 1 Credit

Prerequisite: None

Students in this course will be challenged to develop their critical thinking skills by incorporating annotation, close-reading, and discussion of complex fiction, nonfiction, and informational texts. These texts will come in the form of short stories, speeches, and essays, both whole class and independently selected novels, and the reading of Shakespeare's play, *Romeo and Juliet*. Themed reading and task-oriented writing units will allow students to determine evidence, reason critically, and communicate thoughtfully and compare various texts and media. Students will complete performance tasks in the form of narrative, informational, and argumentative analysis to synthesize the information learned in said themed units.

Pre-AP ENGLISH 1 (Writing Intensive)

Grade 9

2 Sem. 1 Credit

Prerequisite: 8th Placement Criteria.

Pre-AP English 1 focuses on reading, writing, and language skills that are relevant to students' current work and essential for students' future to future high school and college coursework. Texts take center stage, preparing students for close, critical reading and analytical writing. The course trains readers to observe small details in a text to arrive at a deeper understanding of the whole. It also trains writers to create complex sentences—building this foundational skill en route to sophisticated, longer-form analyses.

The Pre-AP English areas of focus are vertically aligned to the practices embedded in high school and college English courses, including AP. This gives students multiple opportunities to prioritize and strengthen key literacy skills throughout their course of study: reading closely, valuing evidence, noticing language choices. This is a **WEIGHTED** grade course.

ENGLISH 2 (Writing Intensive)

Grade 10

2 Sem. 1 Credit

Prerequisite: English 1

This course will be a reading and writing intensive course that encourages students to continue developing their abilities to analyze complex fiction, nonfiction, and informational texts. Through

close-reading, annotation, and discussion, students will progress in their ability to determine evidence, reason critically, and communicate thoughtfully. Readings will include the two novels *To Kill a Mockingbird* and *Lord of the Flies*, and the allegorical novella *Animal Farm*, as well as, a variety of short stories and nonfiction texts. A focus on research skills, analysis, and conventions will also be emphasized to facilitate improvement in narrative, informative and argumentative writing.

Pre-AP ENGLISH 2 (Writing Intensive)

Grade 10

2 Sem. 1 Credit

Prerequisite: "B" avg. in English 1 & Teacher Recommendation.

Pre-AP English 2 builds on the foundations of Pre-AP English 1. While English 1 introduces the fundamentals of close observation, critical analysis, and the appreciation of author's craft, English 2 requires students to apply those practices to a new array of nonfiction and literary texts.

As readers, students become aware of how poets, playwrights, novelists, and writers of nonfiction manipulate language to serve their purposes. As writers, students compose more nuanced analytical essays while never losing sight of craft and cohesion.

The Pre-AP English areas of focus are vertically aligned to the practices embedded in high school and college English courses, including AP. This gives students multiple opportunities to prioritize and strengthen key literacy skills throughout their course of study: reading closely, valuing evidence, noticing language choices. This is a WEIGHTED grade course.

ENGLISH 3 (Writing Intensive)

Grade 11

2 Sem. 1 Credit

Prerequisite: English 2

This course follows the development of the American Literature from the oral tradition of the Native Americans in North America to modern and contemporary writers, themes, and techniques. Specific emphasis will be placed upon the impact the differing eras and political, social, and artistic movements had on the literature created in that time period. The course will include the study of poetry and short story by authors like Edgar Allan Poe and Washington Irving, Steinbeck's novel *Of Mice and Men*, Arthur Miller's play, *The Crucible*, and various speeches and short nonfiction pieces. Grammar, usage, punctuation, writing mechanics, vocabulary, speech, and research will be explored throughout both semesters to develop effective informative and argumentative analysis writing.

AP ENGLISH: LANGUAGE AND COMPOSITION

Grade 11

2 sem. 1 Credit

Prerequisite: "A" in English 2 or "B" or better in Hon. English 2 and Teacher Rec.

This introductory college level course is appropriate for most advanced students and continues developing the skills that English I and II Honors courses focused upon with regard to nonfiction material. Using a College Board approved curriculum, this introductory college-level course requires students to examine the rhetorical situation and study rhetorical contexts such as claim, evidence, reasoning, organization, and style in short nonfiction text. Through analysis of successful writers' tools in these pieces, students will apply said identified tools and techniques to their own writing. Writing instruction focuses upon argumentation, with added emphasis on

synthesis and rhetorical analysis. This is a **WEIGHTED** grade course. **Students will be required to do assigned readings in the summer preceding the fall semester. This is a demanding and rigorous course that will require students to display excellent time management and study skills in order to meet the pace and expectations of the instructor. Students are expected to take the AP Exam at the conclusion of the course.**

ENGLISH 4

Grade 12

2 Sem. 1 Credit

Prerequisite: English 3

Introduction to College Composition is designed to prepare students for entrance into post-secondary college credit-bearing courses by working intensely on their writing skills along with skills in metacognition, critical reading, academic writing, vocabulary acquisition, speaking & listening, and research and inquiry. Students will conduct research specific to their future goals and passions after high school by communicating their findings in a variety of formats. The final culminating project (Senior Capstone) will be created by the end of the year which is fueled by student choice and the entire second semester's focus on a specific social action issue. If a student receives a C or higher BOTH semester it allows them entry into English 101 at Joliet Junior College.

PRACTICAL ENGLISH

Grade 12

2 Sem. 1 Credit

Prerequisite: None

This course is intended for non-college bound seniors who intend to enter the workforce or vocational areas upon high school graduation. The curriculum stresses the use of written, verbal, and nonverbal communication skills with an emphasis on employing relevant themes in the study of short story, nonfiction, poetry, drama, and novels as well as a continuation of the study of grammar, usage, punctuation, writing mechanics, and vocabulary development. This course may not be accepted for preparatory coursework when applying for 4-year university admission or for the NCAA Clearinghouse.

AP ENGLISH: LITERATURE AND COMPOSITION

Grade 12

2 Sem. 1 Credit

Prerequisite: "A" in Eng 3 or "B" in AP Lang & Comp and Teacher Rec.

This introductory college-level course is intended for students who are able to comprehend college-level text and routinely apply the Standards of Written English to all their writing. Students will read, analyze and write about the functions of character, setting, plot and structure, narrator/speaker, word choice, imagery and symbolism. Through this analysis, students will develop textually substantiated arguments to support their interpretations of literature, poetry and drama apparent in both American and world literature. Analytical, interpretive, and argumentative writing assignments will be extensively used. **This is a WEIGHTED grade course. Students will be required to do assigned readings in the summer preceding the fall semester. This is a demanding and rigorous course that will require students to display excellent time management and study skills in order to meet the pace and expectations of the instructor. Students are expected to take the AP Exam at the conclusion of the course.**

MATH DEPARTMENT

Year in school	Math Course Progression		
Freshman	Double Block Algebra 1	Algebra 1	Advanced Algebra 2
Sophomore	Geometry OR Adv. Geometry *ALEKS placement test	Geometry or Adv. Geometry AND (possibly) Adv. Alg. 2 *ALEKS placement test	Geometry or Advanced Geometry AND (possibly) Adv. Algebra & Trig *ALEKS placement test
Junior	Algebra 2 or Financial Algebra	Advanced Algebra 2 or Advanced Algebra & Trig	PreCalculus or Stats or AP Stats
Senior	JJC Bridge or Stats Math 127	Adv. Algebra & Trig or PreCalculus Stats AP Stats JJC Bridge Math 127	AP Calculus or Stats or AP Stats Math 127
Possible College Credits	Statistics = 4 Math 127 = 3	Statistics = 4 PreCalc = 5 Math 127 = 3	Statistics = 4 Precalc = 5 Ap Calc = 5

ALGEBRA 1 DOUBLE BLOCK

Grade 9-12

2 Sem. 2 Credits

Prerequisite: None

This course covers fundamental operations with real numbers, algebraic expressions, linear equations and inequalities, signed numbers, integer exponents, radicals, as well as some introductory geometry topics. Additional topics include solving rational, absolute value, radical and quadratic equations, as well as solving systems of linear equations and inequalities. The course is double-blocked to include math interventions. If a D or F is the current grade at any time you will be assigned a math support block. A TI-30X is required for this course

ALGEBRA 1

Grade 9-12

2 Sem. 1 Credit

Prerequisite: Assessment Data & Teacher Rec

Algebra 1 is an in-depth study of algebraic symbolism, systems of equations, graphing, problem-solving, and probability, and statistics. The students will build upon their previous knowledge to further understand the characteristics and representations of various functions, and relations including linear, exponential, and quadratic equations, inequalities, complex numbers, and rational algebraic expressions. A TI-30X is required for this course.

ALGEBRA 2

Grade 10-12

2 Sem. 1 Credit

Prerequisite: Algebra 1

This course investigates a more in-depth understanding of solving and graphing equations and inequalities of both linear and nonlinear form. Additional topics include systems of three equations, functions, matrices, complex numbers, and probability.

ADVANCED ALGEBRA 2

Grade 9-12

2 Sem. 1 Credit

Prerequisite: Grade of a "B" or better
In Algebra 1 & Teacher Recommendation

This course explores a more in-depth and rigorous understanding of linear and nonlinear functions. Additional topics covered are complex numbers, systems of three equations, probability, operations with matrices, and dividing polynomials. This course is designed to develop problem solving skills necessary to continue in the advanced mathematics courses. This is a WEIGHTED course.

GEOMETRY

Grade 10-12

2 Sem. 1 Credit

Prerequisite: Algebra 1

This course covers geometric topics such as the foundations of Geometry, angles, parallel and perpendicular lines, polygons, congruent triangles, right triangles, similar figures, trigonometric ratios, quadrilaterals, circles, areas, and volumes. Additional topics include using logic and reasoning to complete an outline proof. A scientific calculator or higher is required for this course. ***The ALEKS placement exam will be given at the end of this course to determine dual credit opportunities.

ADVANCED GEOMETRY

Grade 10-12

2 Sem. 1Credit

Prerequisite: Grade of a "C" or better
In Algebra 1 & Teacher Recommendation

This course investigates a more in-depth and rigorous understanding of geometric topics such as Euclid's undefined terms, angles, parallel and perpendicular lines, polygons, congruent triangles, right triangles, similar figures, trigonometric ratios, quadrilaterals, circles, areas, and volumes. Additional topics include constructions, coordinate geometry, and proving geometric theorems throughout each unit. This course is designed to develop logic and reasoning skills necessary to complete formal and outline proofs. Euclidean Geometry for students with a strong background in algebra. Emphasis is placed on problem solving, algebra review, constructions, conjecture, and formal written proof. Students will also have the opportunity, using computers, to explore geometry dynamically. This is a WEIGHTED grade course. ***The ALEKS placement exam will be given at the end of this course to determine dual credit opportunities.

ADVANCED ALGEBRA & TRIGONOMETRY

Grade 10-12

2 Sem. 1 Credit

Prerequisite: Grade of a "C" or better in
Adv. Algebra 2, Teacher Recommendation

This course will give students a more in-depth understanding of the topics covered in Algebra 2, including parabolas, and polynomial functions. Exposure is given to topics such as exponential and logarithmic functions, ellipses, hyperbolas, trigonometric functions, and rational functions. Exposure is also given to solving exponential, logarithmic, and trigonometric equations. This is a WEIGHTED grade course.

FINANCIAL ALGEBRA

Grade 11-12

2 Sem. 1 Credit

Prerequisite: Algebra 1 & Geometry

This course is an applied mathematics course designed to give students the tools to become financially responsible young adults. The application-based course employs Algebra, probability, statistics, and geometry to solve financial problems that occur in everyday life. Relevant real-world problems in investing, credit, banking, auto insurance, mortgages, employment, income taxes, budgeting, and planning for retirement are explored and analyzed using mathematics.

JJC COLLEGE BRIDGE PROGRAM

Grade 12 2 Semester 1 Credit Prerequisite: Earned 3 math credits

This math class is for students planning to attend college but not planning to major in a science, technology, engineering, or mathematics (STEM) field. This is NOT a dual credit course, but passing this course allows students to enter into credit bearing math courses at JJC to meet degree requirements even without a qualifying ALEKS placement math score. Students not earning a 40 or higher on the ALEKS placement math test are encouraged to take this course, followed by the dual credit MAT 127 to earn 3 credit hours of college level mathematics.

MATH 127

Grade 12 1 Semester ½ Credit Prerequisite: JJC Bridge with a C or higher,
or a 40 or higher on the ALEKS placement test

This math class is for students who are planning to attend college but not planning to major in a science, technology, engineering, or mathematics (STEM) field. This is a [3-hour DUAL CREDIT](#) course through JJC that will transfer to many other colleges. To qualify for dual credit an ALEKS math placement score of 40 or higher is required prior to the start of the course. You will study general mathematics in the following topics: Logic, Probability, Finance, Statistics, Linear Algebra. Students with an ALEKS placement score of 40 or higher and not wanting to take PreCalculus or AP Calculus are encouraged to take this course.

STATISTICS & PROBABILITY - JJC DUAL CREDIT MAT 128

Grade 10-12 2 Sem. 1 Credit Prerequisite: Algebra 2

This math class is for students who are planning to attend college but not planning to major in a science, technology, engineering, or mathematics (STEM) field. This is a [4-hour DUAL CREDIT](#) course through JJC titled MAT 128. To qualify for dual credit an ALEKS math placement score of 40 or higher is required prior to the start of the course. Students wishing to pursue a degree that requires a statistics course requirement are encouraged to take this dual credit option.

Degrees that are less mathematically heavy but require a statistics course include, but are not limited to, social sciences like psychology, sociology, anthropology, political science, education, public health, some humanities like linguistics, as well as certain areas of business like marketing and management, and some fields within the health sciences like nutrition or health administration. This course will focus on collecting, analyzing, and interpreting real world data.

AP STATISTICS - JJC DUAL CREDIT MAT 128

Grade 11-12 2 Sem. 1 Credit Prerequisite: Advanced Algebra 2

This math class is for students planning to take the College Board AP Exam in statistics. Students planning to attend college and may or may not be planning to major in science, technology, engineering, or mathematics (STEM) field are encouraged to take this course. This

is a [4-hour DUAL CREDIT](#) course through JJC titled MAT 128. To qualify for dual credit an ALEKS math placement score of 40 or higher is required prior to the start of the course. This course is a good option for students looking to acquire both a transferable college statistics requirement and potential AP general math college credit with a qualifying score. This course is similar to Statistics, focusing on collecting, analyzing, and interpreting real world data, but is more rigorous and moves at a faster pace.

PRECALCULUS - JJC DUAL CREDIT MAT 142

Grade 11-12

2 Sem. 1 Credit

Prerequisite: Adv. Algebra & Trig.

This math class is for students planning to take AP Calculus and the AP Calculus AB Exam their senior year. Students planning to attend college and planning to major in a science, technology, engineering, or mathematics (STEM) field are encouraged to take this course. This is a [5-hour DUAL CREDIT](#) course through JJC titled MAT 142. To qualify for dual credit an ALEKS math placement score of 54 or higher is required prior to the start of the course. This course will focus on critical analysis of functions and their graphs with an introduction to limits.

AP CALCULUS AB - JJC DUAL CREDIT MAT 170

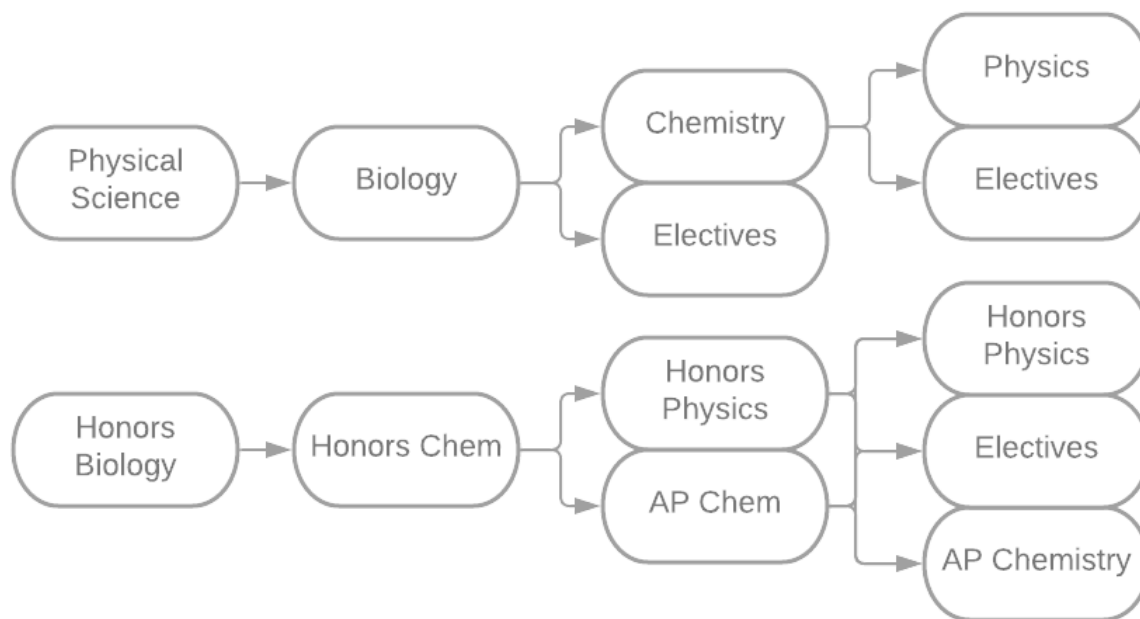
Grade 12

2 Sem. 1 Credit

Prerequisite: PreCalculus

This math class is for students planning to take the College Board AP Exam in Calculus AB. Students planning to attend college and planning to major in science, technology, engineering, or mathematics (STEM) field are encouraged to take this course. This is a [5-hour DUAL CREDIT](#) course through JJC titled MAT 170. To qualify for dual credit an ALEKS math placement score of 76 or higher is required prior to the start of the course. This course is a good option for students looking to acquire both a transferable college level Calculus 1 requirement and potential AP general math college credit with a qualifying score. This course will focus on 4 key topics: Limits, Derivatives, Integrals, and Applications of derivatives and integrals.

SCIENCE DEPARTMENT



PHYSICAL SCIENCE

Grade 9

2 Sem. 1 Credit

Prerequisite: None

This course explores basic concepts of physics and chemistry including atomic structure, nuclear chemistry, momentum, forces and motion, energy transformation, thermodynamics, waves, and atmosphere studies. This course includes direct instruction, cooperative group work, journal writing and laboratory investigation.

BIOLOGY

Grade: 10

2 Sem. 1 Credit

Prerequisite: Physical Science

A laboratory based course that investigates the structure and function of living things on multiple scales, from the individual cells within an organism up to the interactions of biomes around our planet. Studies include: cellular structure leading to a growing, functional organism; inheritance and variation of traits from one generation to the next; evolution, adaptation, and natural selection of life on this planet; and the interactions between the living and non-living environment leading to stability and change within ecosystems.

HONORS BIOLOGY

Grade 9-10

2 Sem. 1 Credit

Prerequisite: "A" in Physical Science, 8th Grade Placement

An in-depth study of cells and their processes, microorganisms, body systems and functions, genetics, evolution, and living/nonliving components within ecosystems. A variety of labs, dissection, and microscope usage will be performed. This is a WEIGHTED grade course.

ENVIRONMENTAL SCIENCE

Grade 10-12

1 Sem. 1/2 Credit

Prerequisite: None

This course will provide students with a knowledge base about their biological and physical environment. Students will investigate the role of humans in their environment. Making informed choices concerning environmental issues will be a pivotal topic, and will be subject to change as we face new environmental challenges in the future.

ZOOLOGY

Grade 10-12

1 Sem. 1/2 Credit

Prerequisite: Hon. Biology or Biology

The study of Animals. Hands-on observations and dissections along with virtual activities will be explored as we go through the Animal Kingdom. The course focuses on comparative anatomy, behavior, and Taxonomy (classification) of animals as well as evolutionary relationships.

FORENSIC SCIENCE

Grade 10-12

1 Sem. 1/2 Credit

Prerequisite: None

A lab and project based course using crime scene evidence and investigative skills to solve crime. Topics will include but are not limited to: fingerprinting, blood typing, DNA analysis, population genetics, material science engineering, and crime scene diagramming.

SCIENCE, TECHNOLOGY, ENGINEERING, & MATHEMATICS (STEM)

Grade 10-12

1 Sem. 1/2 Credit

Prerequisite: None

A project based course rooted in application and creation of materials based upon scientific knowledge and real world constraints. This course will explore a multitude of engineering types through research and projects.

HUMAN ANATOMY AND PHYSIOLOGY

Grade 11-12

1 Sem. 1/2 Credit

Prerequisite: Grade of a "C" or higher in Regular or Hon. Biology

An advanced science in which students will study the systems of the human body, the anatomy of each system, and the relationships that exist between all of the organs in each organ system & their function to maintain homeostasis within the body. Students should enroll in this course either before or at the same time as AP Biology.

CHEMISTRY

Grade 10-12

2 Sem. 1 Credit

Prerequisite: Honors Biology or Biology, Teacher Rec.

A laboratory based course that investigates the physical and chemical properties and changes of matter. Topics include: interpreting patterns within the periodic table to make predictions about elements and compounds; applying the relationships between chemical bonds and intermolecular forces to determine the most suitable functions for substances; predicting the outcome of chemical reactions; observing and harnessing energy changes within a chemical reaction; manipulating chemical reactions and equilibria for desired purposes.

HONORS CHEMISTRY

Grade 10-12

2 Sem. 1 Credit

Prerequisite: Honors Biology or an
"A" in Biology, Teacher Rec.

A laboratory based and in-depth study of chemistry including structure, properties, and interactions of matter as well as predictions of chemical reactions, equilibrium, and thermochemistry. This honors course is designed to prepare students for college chemistry. Students will be expected to investigate phenomena by experimentation, research, and critical thinking as well as professionally communicate information using written analyses, models, and oral communication. This is a WEIGHTED grade course.

AP CHEMISTRY

Grade 11-12

2 Sem. 1 Credit

Prerequisite: "B" in Honors Chem. or
"A" in Chem. with Teacher Rec.

The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: Atomic Structure, Intermolecular Forces and Bonding, Chemical Reactions, Kinetics, Thermodynamics, and Equilibrium. The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Emphasis will be placed on science practices that scientists engage in, which include inquiry and reasoning skills. **Students are expected to take the AP Exam in the spring.** This is a WEIGHTED grade course.

PHYSICS

Grade 11-12

2 Sem. 1 Credit

Prerequisite: Chemistry and
Concurrent with Algebra 2

This course will explore the concepts of one dimensional motion and kinematics, conservation of energy and momentum, electrostatics, and electricity. Students will explore each topic through labs, lecture, computer simulation, and engineering projects. Basic algebra and problem solving skills will also be used throughout the year while studying each concept.

AP PHYSICS

Grade 11-12

2 Sem. 1 Credit

Prerequisite: Geometry, Honors
Chemistry, Teacher Recommendation

AP Physics 1 courses focus on Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory circuits. These courses may also include college-level laboratory investigations.

SOCIAL STUDIES DEPARTMENT

CURRENT EVENTS

Grade 9-12

1 Sem. 1/2 Credit

Prerequisite: None

This course emphasizes reading comprehension, critical thinking, problem solving, oral expression, and media literacy in a social studies setting. The curriculum for this course will not focus on specific facts and dates, but rather a project based evaluation. The class will offer ideal opportunities to become informed citizens and learn to become lifelong news readers. Students will focus on such areas of study as national events, state events, local events, and foreign events.

WORLD HISTORY

Grade 9-10

1 Sem. 1/2 Credit

Prerequisite: None

This course will include a wide variety of historical topics from around the world. Beginning with a brief study of African and Middle East history, students will explore a variety of historical topics based on geographical regions. Other units of focus will include European, Asian, and South American history. The student will be exposed to such topics as political trends, historical figures, human rights violations, and economic systems from each region.

AP WORLD HISTORY: Modern

Grade 10-12

2 Sem. 1 Credit

Prerequisite: None

This course will cover a time frame beginning around 1200 CE and continuing on to present day emphasizing the various themes of World History in the process. Students will be required to master factual knowledge in World History while also developing the investigative and analytical skills of a true historian. Students will accomplish this through the daily practice of reading historical documents and primary sources as well as sharing their historical analysis through writing. **Students will have a summer reading/work list and will be expected to take the College Board Advanced Placement exam in World History in which they may receive college credit.** This is a WEIGHTED grade course.

HUMAN GEOGRAPHY

Grade 9-10

1 Sem. 1/2 Credit

Prerequisite: None

Human Geography is a semester-long course that focuses on the distribution, processes, and effects of humans on the population and world. Units of study may include: population, migration, culture, language, religion, ethnicity, political geography, and agriculture. Emphasis is placed on geographic models and applications, case studies around the globe, and Internet activities used to explore geographical topics.

AP HUMAN GEOGRAPHY

Grade 9-10

2 Sem. 1 Credit

Prerequisite: 8th Grade Placement

Students will be introduced to the systematic study of human population, migration, and development around the globe. Skills such as spatial concepts and landscape analysis will be

used to examine socioeconomic organization and environmental consequences. **Students will be expected to take the College Board Advanced Placement exam in AP Human Geography.** This is a WEIGHTED grade course.

CIVICS

Grade 11-12

1 Sem. 1/2 Credit

Prerequisite: None

In-depth study of the United States and Illinois Constitutions. This course is intended to help young people be competent and responsible citizens throughout their lives. This course will focus on government institutions, controversial political issues, service learning, and simulations of the democratic process.

AP GOVERNMENT & POLITICS

Grade 12

2 Sem. 1 Credit

Prerequisite: None

Students will explore the political theory and everyday practice that direct the daily operation of the U.S. government and shape our public policies. This course includes both the study of general concepts used to interpret U.S. government and politics and analysis of specific examples. Students will develop a critical understanding of the strengths and weaknesses of the American political system, as well a citizen's rights and responsibilities. Civics education must help young people acquire and learn to use the skills, knowledge, and attitudes that will prepare them to be competent and responsible citizens throughout their lives; address government institutions; discuss current and controversial issues; and include service learning and simulations of the democratic process. **Students will be expected to take the College Board Advanced Placement exam in United States Government and Politics and must pass Illinois and U.S. Constitution tests.** This is a WEIGHTED grade course.

**An exception may be made for juniors to take this class if there is a known senior scheduling conflict for that student*

U.S. HISTORY 1800-1900

Grade 11-12

1 Sem. 1/2 Credit

Prerequisite: None

Significant people and events from American History between 1800-1900 are discussed with an emphasis on relating the past to the present. The Age of Reform, Civil War, and Reconstruction will be focal points of the class.

U.S. HISTORY 1900-1950

Grade 11-12

1 Sem. 1/2 Credit

Prerequisite: None

Significant people and events from American History between 1900-1950 are discussed with an emphasis on relating the past to the present. The Gilded Age, Progressive Age, WWI, Great Depression, and WWII will be focal points in class, as well as minority rights.

U.S. HISTORY 1950-Present Day

Grade 11-12

1 Sem. 1/2 Credit

Prerequisite: None

Significant people and events from American history between 1950 and the present day are discussed with an emphasis on relating all topics to the modern world. The Cold War, Korean

and Vietnam wars, Race relations, and the role of the government and the presidency will be focal points in class.

AP U.S. HISTORY

Grade 11-12

2 Sem. 1 Credit

Prerequisite: Passing AP World History,
Grade of an "A" in English 2, or Teacher Recommendation

This course is meant to think conceptually about U.S. History from approximately 1491 to the present and apply historical thinking skills as they learn about the past. Seven themes of equal importance—identity; peopling; politics and power; work, exchange, and technology; America in the world; environment and geography; and ideas, beliefs, and culture—provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places. **The purpose of this course is to prepare students to take the College Board Advanced Placement exam in U.S. History in which they may receive college credit.** This is a WEIGHTED course.

EVERYDAY SOCIAL STUDIES

Grade 9-12

1 Sem. ½ Credit

Prerequisite: None

This course explores a variety of Social Studies topics that are encountered in the modern day, over the course of your everyday life. From basic economics concepts to street law, and fundamental geography, students will dive into concepts that they may have been introduced to in the past but didn't realize were that important or to concepts that slip through the cracks of traditional social studies courses.

SOCIOLOGY

Grade 11 & 12

1 Sem. 1/2 Credit

Prerequisite: None

This course will study the science of society, which includes the various social institutions and social relationships throughout the United States and the world. A strong emphasis will be placed on important issues in society (crime, social classes, education, etc.).

ECONOMICS

Grade 11-12

1 Sem. 1/2 Credit

Prerequisite: None

This course is designed to provide an understanding of how the American economic system works. It will prepare future college business students with a good foundation in the fundamentals of economics. Economics can be taken to replace the Personal Finance graduation requirement.

GENERAL PSYCHOLOGY

Grade 11 & 12

1 Sem. 1/2 Credit

Prerequisite: None

In depth study of development of personality, personality disorders, frustration & stress management, motivation and emotional development.

ABNORMAL PSYCHOLOGY

Grade 11-12

1 Sem. ½ Credit

Prerequisite: Psychology

Abnormal Psychology explored the nature, causes, and treatments of psychological disorders. This course provided an in-depth understanding of mental health issues, examining the biological, psychological, and social factors that contribute to abnormal behaviors. Students will engage with various theoretical perspectives, diagnostic criteria, and treatment modalities, fostering a comprehensive understanding of mental health.

WOMEN'S HISTORY

Grade 10-12

1 Sem. ½ Credit

Prerequisite: None

Women's History is an interdisciplinary course that explores the roles, contributions, and experiences of women throughout history. This course examines women's lives across different cultures and times periods, highlighting their impact on social, political, economic, and cultural developments. Students will engage with primary and secondary sources to understand how gender shapes historical narratives and to analyze the intersectionality of race and class.

SPORTS HISTORY

Grade 11-12

1 Sem. ½ Credit

Prerequisite: None

Sports History examines the development, significance, and impact of sports throughout time. This course explores how sports have reflected and influenced cultural, social, and political dynamics in various societies. Students will investigate the evolution of sports, key figures, major events, and the role of sports in fostering community and identity.

POLITICAL SCIENCE AND POLICY DEBATE

Grade 11-12

1 Sem. ½ Credit

Prerequisite: None

Political Science And Policy Debate is an engaged course that combines the study of political theory, governmental structures, and public policy with the art of debate. Students will explore key political concepts, contemporary issues, and policy-making processes while developing critical thinking, analytical, and public speaking skills. The course will culminate in structured debates, allowing students to articulate their positions on pressing political issues effectively.

US HISTORY THROUGH FILM

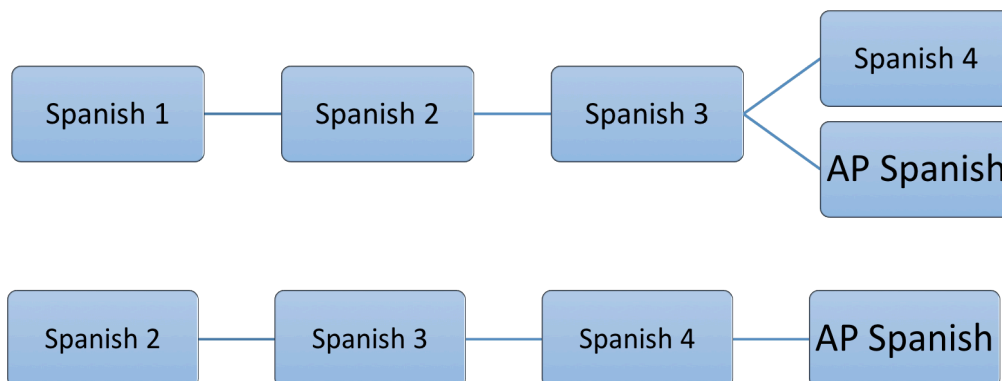
Grade 10-12

1 Sem. ½ Credit

Prerequisite: None

US History Through Film explores the representation of historical events, figures, and themes in American cinema. This course examines how film reflects, shapes, and sometimes distorts our understanding of US history. By analyzing a diverse range of films, students will gain insight into the cultural, social, and political contexts of different historical periods while developing critical viewing and analytical skills.

WORLD LANGUAGE DEPARTMENT



AMERICAN SIGN LANGUAGE I

Grade 9-12

2 Sem. 1 Credit

Prerequisite: None

This class introduces students to Deaf culture, vocabulary words, and correct ASL grammar rules. Students communicate and present through ASL in the classroom to show their expressive skills. Students are tested on their ability to understand signing when presented to them by the teacher and also on their knowledge of Deaf culture.

AMERICAN SIGN LANGUAGE II

Grade 10-12

2 Sem. 1 Credit

Prerequisite: American Sign Language I

This class builds upon the knowledge of Deaf culture, vocabulary, and grammar learned in ASL I. Students communicate and present through ASL in the classroom using more complex structures. Students are tested on their ability to understand signing when presented to them by the instructor and Deaf signers. Understanding Deaf culture is emphasized in this course.

SPANISH I

Grade 9-12

2 Sem. 1 Credit

Prerequisite: None

This course is designed for students to learn basic communication skills in Spanish. Students develop their skills in speaking, listening, reading, and writing Spanish. An introduction to Hispanic culture is also included.

SPANISH II

Grade 9-12

2 Sem. 1 Credit

Prerequisite: Spanish I or Freshmen Placement Exam

A continuation of Spanish I. Additional vocabulary and grammar are introduced and students continue to work on the four core parts of the language: reading, writing, listening and speaking. As the students progress, projects, papers and cultural knowledge are expanded in class.

SPANISH III

Grade 11-12

2 Sem. 1 Credit

Prerequisite: "C" avg in Spanish II

A continuation of Spanish II. Although students continue to work on the four core parts of the language (reading, writing, listening and speaking), additional grammar and vocabulary are introduced. There is an expectation to communicate in Spanish throughout the class.

SPANISH IV

Grade 11-12

2 Sem. 1 Credit

Prerequisite: "C" avg in Spanish III

This course is the culmination of Spanish at Coal City High School. Emphasis is on projects, papers, and cultural knowledge. Students will put their knowledge of three years of Spanish into use. The history of Spain, South and North America, poetry, artists, and other aspects of culture will be studied.

AP SPANISH

Grade 12

2 Sem. 1 Credit

Prerequisite: "A-" in Spanish III or IV

This course in advanced conversation, composition and grammar intends to prepare students to succeed on the Spanish Language and Cultural Advanced Placement Exam. Students will read, discuss, and write on authentic Hispanic literature and contemporary multi-media. This course will be conducted entirely in Spanish, and it is expected that students practice Spanish grammar concepts on their own. A Spanish-English dictionary is required. **The purpose of this course is to prepare students to take the College Board Advanced Placement exam in Spanish in which they may receive college credit.** This is a WEIGHTED grade course.

CAREER AND TECHNICAL EDUCATION DEPARTMENT

INDUSTRIAL TECHNOLOGY COURSES:

RESIDENTIAL DIY

Grade 9-12

1 Sem. 1/2 Credit

State Course Code:17001A001

Prerequisite: None

A course in which students explore the skills needed to perform household Do-It-Yourself projects. The activities represent tasks and skills that can be used in the workforce today as well as skills needed for future homeowners/renters. This course will center around hands on problem solving and active cooperative learning. Areas to be covered include: basic safety, tool usage, carpentry, painting, door handle removal and installation, drywall repair and installation, plumbing, electrical, heating and cooling, appliance repair, etc.

ENGINEERING TECHNOLOGY

Grade 9-12

1 Sem. 1/2 Credit

State Course Code:21052A001

Prerequisite: Residential DIY/Woods

This course is an introductory engineering course exposing students to a cross section of topics in engineering disciplines to assist them with their education career choices. This course introduces students to the fundamentals of engineering design and professional practice through the use of hands-on projects. Students will learn about the design cycle and the necessary steps to complete a successful project as a member of a team. Students will document designs and will be required to communicate their designs through written, oral, and graphical presentations. Also included in this course is a Virtual Business Simulation where students manage the operations of a manufacturing facility.

WOODS 1

Grade 9-12

1 Sem. 1/2 Credit

State Course Code:17007A003

Prerequisite: None

No previous experience in woodworking is necessary. Included will be an introduction to woodworking machines with students making their own projects. A lab \$40 fee will be charged to cover the cost of the project materials.

WOODS 2

Grades 9-12

1 Sem. ½ Credit

State Course Code:17007A001

Prerequisite: "C" in Woods & Instructor Approval

The course is designed for the more advanced students to create, assemble, and finish their own kit projects. Students will be tested on the safe use of woodworking machines in order to work independently in the lab. Students will develop or provide their own working plans, the student's cost for the supplies will be dependent on the plan.

Woods 3: Fab Lab

Grades 10-12

1 Sem. ½ Credit

State Course Code: 17077A001

Prerequisite: "B" in Woods 2 & Instructor

ApprovalThis hands-on course is designed for students interested in applying their skills to create meaningful projects that directly benefit their school community. Students will

collaborate with teachers, coaches, and club advisors to design and build custom projects for use in classrooms, athletic programs, and extracurricular activities. Coursework will include instruction on traditional woodworking and fabrication techniques, as well as advanced technology like laser engravers and cutters. Students will learn to design and produce items such as classroom furniture, decorative signage, and personalized awards for athletes and club participants. This course can be repeated.

FAMILY & CONSUMER SCIENCE COURSES:

CHILD DEVELOPMENT I

Grade 9-12

1 Sem. ½ Credit

State Course Code:19052A001

Prerequisite: None

This course develops a better understanding of prenatal life and care necessary for a successful pregnancy. Teen pregnancy and parenthood are discussed. Prenatal care for both mom and baby, the process of labor and delivery, care of newborn, parenting skills, selection and purchase of toys, clothing and equipment for a child, physical, emotional, social, and intellectual development for babies until age 1, and normal growth patterns of children are discussed. Some of the projects throughout the course include: Birth defect presentation, Posts from Inside the Womb project, Baby Budget, and Baby simulators which are used to gain hands-on experience in the care of a newborn.

CHILD DEVELOPMENT II

Grade 9-12

1 Sem. ½ Credit

State Course Code:19051A001

Prerequisite: Child Development I

In this course the development of children from age 2 to adolescence will be studied. Emphasis will be placed on increased understanding of children and the development of basic skills in relating to them. Broad areas of emphasis will be: career opportunities, physical development of children, social development and relationships, educational and mental development, emotional development, play—purposes and supervision, the child with special needs, child abuse, and the school-age child through adolescence.

FOODS & NUTRITION I

Grade 9-12

1 Sem. ½ Credit

State Course Code:16054A001

Prerequisite: None

This course includes introductory classroom and laboratory experiences needed to develop knowledge and understanding of the foundations of food principles and applied nutrition. The course content centers around the following areas: Exploring food choices, Kitchen safety and Sanitation, Recipe skills, Cooking methods, My Food Plate, Planning food choices and fitness, Eating disorders, Convenience foods, Fruits and vegetables, and Grains.

FOODS & NUTRITION II

Grade 9-12

1 Sem. ½ Credit

State Course Code:16054A002

Prerequisite: Foods & Nutrition I

This class teaches the importance of nutrition and wellness. Students will explore regional and world foods, baking, careers, eggs and dairy, milk, meat/poultry/fish/shellfish, nutrition, and cake decorating. The techniques of food preparation in a laboratory setting are included.

STYLES & TEXTILES

Grade 9-12

1 Sem. ½ Credit

State Course Code:19201A001

Prerequisite: None

This class teaches the development of a positive image for all. Basic clothing selection, body image, and fashion history are discussed. Basic skills such as operating a sewing machine, clothing repair, and simple construction are taught. Techniques of sewing construction and fabric-related projects will be included. Students enrolled in this course are required to purchase fabric and sewing supplies which will amount to approximately \$25-\$30 or more depending on the student's fabric choices and sewing skill level. Sewing projects include: Pillow, PJ Pants, Apron, and more if time permits.

BUSINESS COURSES:**INTRODUCTION TO BUSINESS**

Grade 9-10

1 Sem. 1/2 Credit

State Course Code:12051A001

Prerequisite: None

A course designed to introduce students to basic business concepts and principles that are being used in corporate America. The course focuses on government economic conditions, international business, ethical and social responsibilities and business ownerships. The introduction of topics related to the following departments of a major corporation such as accounting, management, human resource, production and marketing are covered in this class. This course is an excellent lead-in to advanced business courses that includes real-world simulations and project based activities.

COLLEGE AND CAREER EXPLORATION

GRADE 9-10

1 Sem. ½ Credit

State Course Code: 22151A001

Prerequisite: None

This course is designed to give students the tools to transition them in their chosen direction after high school. The skills taught in this course are imperative to ensuring that each and every student who graduates has a clear understanding of how to succeed and thrive in college, at work or both. Students will engage in the career development process, post-secondary preparation, study skills, social behaviors, ethics studies, career portfolio, computer literacy, and computer training in Naviance.

ACCOUNTING 1 (Dual Credit Available)

Grade 10-12

2 Sem. 1 Credit

State Course Code:12104A001

Prerequisite: None

This first level course in accounting emphasizes financial accounting. This course covers the accounting cycle, assets, liabilities and stockholder's equity in sole proprietorships, partnerships and corporations. Attention is given to providing the student with an understanding of accounting procedures and the ability to use accounting data effectively. Projects include accounting monopoly, accounting cookie project, real-world accounting analysis and much more. This course is vital for any student who plans to pursue a degree in business or a related field after graduation. There will be a fee of approximately \$40-50 for materials.

ACCOUNTING 2

Grade 11-12

2 Sem. 1 Credit

State Course Code: 12104A002

Prerequisite: Accounting 1 &

Instructor Approval

This course is a continuation of Accounting I. The emphasis of this second accounting course is on managerial accounting. Included in this course are the fundamentals of payroll, voucher systems, inventory valuation, unearned/accrued revenue and other topics. This course is an independent study course. There will be a fee of approximately \$70 for materials.

BUSINESS LAW

Grade 10-12

1 Sem. 1/2 Credit

State Course Code:12054A001

Prerequisite: None

This course is designed to provide students with an overview of our legal system, including statutes and regulations that affect businesses, families, and individuals in a variety of ways. Knowledge of business law is particularly useful because all students eventually assume the role of a citizen, worker, and consumer in society. Mock Trials are completed during this course as well as analysis of real world current events, court case reviews, group projects and individual case studies.

BUSINESS MANAGEMENT

Grade 10-12

1 Sem. 1/2 Credit

State Course Code: 12052A001

Prerequisite: None

This course covers the areas of Business Management focusing on real-world applications and connections. The basic managerial skills of planning, organizing, leading, controlling, and evaluating will give you a better understanding of business operations. Students will learn how to market oneself in today's business world. Students will learn the aspect of starting and operating a small business and apply this knowledge by creating a small business plan. Also included in this course is a Virtual Business Simulation where students are able to start their own business to run and operate independently.

SPORTS & ENTERTAINMENT MARKETING

Grade 10-12

1 Sem. 1/2 Credit

State Course Code:12152A001

Prerequisite: None

This class will focus on one of the fastest growing industries in the business world. The sports and entertainment marketing field has really grown due to the expansion of current sports leagues as well as new professional and amateur leagues being developed. The class will be predominantly project based. Problem-based and engaged learning will play a big part in most of these projects. The projects will focus on real-world sports marketing activities. Also included in this course is a Virtual Business Simulation where students are able to start their own sports and entertainment franchise to run and operate independently.

MICROSOFT OFFICE (Dual Credit Available)

Grade 9-12

1 Sem. 1/2 Credit

State Course Code:10004A001

Prerequisite: None

This course is designed to develop microcomputer application skills using Microsoft Office. This fully integrated software package will allow students to complete projects using word processing, spreadsheets, presentation software and desktop publishing software. Students will also be interfacing throughout with the Internet. Students will utilize the online program SAM to complete assignments independently and have instant feedback for assessments and daily

assignments. This course is designed to help students with future success using this software in their careers as well as college.

MULTIMEDIA

Grade 9-12

1 Sem. 1/2 Credit

State Course Code:10004A001

Prerequisite: None

This course is designed to allow the students to utilize and master various pieces of software. Some of the concepts that will be discussed are photo manipulation, multimedia presentations, graphics, podcasting, desktop publishing and video editing. Students will also learn how to use various types of cameras for photography as well as video usage.

INTRODUCTION TO COMPUTER SCIENCE

Grade 9-12 1 Sem. 1/2 Credit

State Course Code:10152A001

Prerequisite: B or better in Algebra and/or
Instructor Approval

Students must have strong math skills, and the ability to type proficiently without errors. This course studies the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills. The introductory material for this course includes units of study on the following topics: variables, if/else statements, for loops, while loops, functions, parameters, control structures, graphics, and animation. Once students complete this foundational STEM course, they will be able to create programs using algorithms to solve problems.

DESKTOP PUBLISHING

Grade 10-12

2 Sem. 1 Credit

State Course Code:10005A002

Prerequisite: Multimedia and/or
Instructor approval

This course will involve the complete production of a high school yearbook. Students will design and edit pages for submission to the publisher. They will also be responsible for writing copy, interviewing, budgeting, selling advertisements, taking photos, and marketing the book. Desktop Publishing and photo editing software will be utilized in this course. Course may be repeated with instructor permission.

ENTREPRENEURIAL PUBLISHING

Grade 10-12

2 Sem. 1 Credit

State Course Code:12053A001

Prerequisite: Multimedia and
Instructor approval.

This class is a school-based enterprise and combines the concepts and experiences of owning your own business with the creation of forms, programs, newsletters, business cards, certificates and brochures. Students will work on real life situations using desktop publishing, word processing, digital photography and graphics. Course may be repeated with instructor approval.

MOTION & GRAPHIC DESIGN

Grade 11-12

2 Sem. 1 Credit

Prerequisite: Instructor Approval

This course will introduce the creation of various digital media formats like images, video, audio, and web design. Students in the course will create schoolwide, social media, and video board content for school events including both athletics and academics.

PERSONAL FINANCE (Dual Credit Available)

Grade 11-12

1 Sem. 1/2 Credit

State Course Code:22210A001

Prerequisite: None

This course teaches practical life skills students can use now and in their future. Units to be covered include: consumers in the marketplace, money & banking, saving & investing, consumer credit, insurance, housing, government spending and taxation, organized labor, and the free enterprise system. *Personal Finance is a required course for graduation.*

COOPERATIVE EDUCATION SEMINAR

Grade 11-12

1 Sem. ½ Credit

State Course Code:22153A001

Prerequisite: None

This course is designed to incorporate classroom activities, simulations, and projects, related to career development. The first semester topics that are covered in this course include Enrichment of Career Skill Development, Career Hunting, Resume Construction, and Interviewing. The second semester includes Workers Rights, Employee Development, Professional Workplace Activities, and Business Plan Development. Can repeat course 2nd semester, if requested.

COOPERATIVE EDUCATION (CE)

Grade 12

2 Sem. 4 Credits

State Course Code:Varies on Course

Prerequisite: Senior standing

This course is designed to incorporate classroom activities, simulations, projects, and job development. The topics that are covered in this course include Workplace Development and Expectations, Career Hunting, Resume Construction, Interviewing, Workers Rights, Professional Workplace Activities, and Business Plan Development. The purpose of the work phase of the program is to allow students to develop a positive work ethic, improve interpersonal relationships related to successful attainment and retention of employment, learn and apply the rights & responsibilities of the employee, and gain career skills for future job advancement. Students are required to find their own employment at a training station that must be approved and provide each student with a minimum of 15 hours of work a week. An approved workstation meets all federal and state laws regarding liability, safety, and wages and must follow a plan wherein the student progresses upward in the development of skills for the workplace. The student must provide his/her own transportation to the job site which must be within a 20-mile radius of CCHS or have the approval of the instructor. Students are enrolled for four school periods, including one mandatory CE class. Students must submit signed proof of employment before the end of the 4-day add/drop period in August or must drop CE and sign up for other CCHS courses. Also, students who are unemployed at the start of the 2nd semester will be dropped from CE and must sign up for other CCHS courses.

AP COMPUTER SCIENCE PRINCIPLES

Grade 11-12

2 Sem. 1 Credit

State Course Code: 10152A002

Prerequisite: "B" average in Math Courses or Instructor Approval

This course introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. This course has a unique focus on creative problem solving and real world applications. This course allows students to explore several important topics of computing using their own ideas and creativity, use the power of

computing to create artifacts of personal value, and develop an interest in computer science that will foster further endeavors in the field. Students should have strong mathematical skills, as well as strong written communication skills. The AP Exam components include a performance task, Create (40%) performance task, and the end-of-course exam (60%). The Create task consists of three components, a video of your program running, a written response, & program code, with a minimum of 12 class hours. The end-of-course exam consists of single-select multiple-choice and multiple-select multiple-choice questions. **The purpose of this course is to prepare students to take the College Board Advanced Placement exam in Computer Science Principle in which they may receive college credit.**

PHYSICAL EDUCATION DEPARTMENT

FITNESS CONCEPTS

Grade 9

1 Sem. 1/2 Credit

Prerequisite: None

Students will try to achieve and maintain a health-enhancing level of physical fitness based upon continual self-assessment of written and physical testing. Students will be acquiring knowledge, collecting data, creating goals/plans of action to help them implement strategies to meet their exercise goals. During the second part of the course, students will complete a unit which includes infant, child, and adult CPR, and AED.

HEALTH

Grade 9

1 Sem. 1/2 Credit

Prerequisite: None

This required course is designed to motivate students to investigate their physical, mental, and social traits. Topics to be covered include: Stress Management, mental health, Nutrition and Physical Wellness, sex education, disease control, dependency-causing substances, decision-making and self-esteem.

DRIVER EDUCATION/SAFETY

Grade 9-10

1 Sem. 1/2 Credit

Prerequisite:

This course consists of two parts. One is planned classroom instruction and practice driving designed to develop proper habits, attitudes, skills, and background knowledge of motorists. Driver education class includes at least 30 hours of classroom study and 6 hours of behind-the-wheel training with an instructor. In addition, students are required to complete 50 hours of documented practice driving time under the supervision of a parent or legal guardian. State law requires the student to have passed at least 8 classes (4 credits) in the preceding two semesters in order to take Driver Ed. and apply for a license. The course fees are \$150 for the Behind-the-Wheel portion of this course and \$20 for the Secretary of State Permit fee.

PHYSICAL EDUCATION

Grade 10-12

2 Sem. 1 Credit

Prerequisite: None

Physical development and health directly affect one's performance in all areas of life. Physical education provides students with the knowledge and skills for the development of a healthy lifestyle, and also provides the opportunity to acquire both physical fitness and the skills necessary for various leisure time activities.

LIFETIME FITNESS

Grade 10-12

2 Sem. 1 Credit

Prerequisite: Fitness Concepts

Lifetime Fitness is an elective physical education course designed to help students build the knowledge, skills, and habits needed for lifelong health and wellness. This course blends fitness training with lifetime sports and recreational activities, offering a balanced and enjoyable approach to staying active. Each class period combines structured workouts focused on the major components of fitness (cardiovascular endurance, muscular strength/endurance, flexibility) with lifetime sports and games such as pickleball, tennis, spikeball, bags, and more.

Students will also explore yoga, mindfulness, and other wellness practices that support both physical and mental health. Through a variety of activities, personal goal setting, and fitness challenges students will improve their overall fitness, discover enjoyable ways to stay active, and build a lasting foundation for a healthy, active lifestyle.

WEIGHTLIFTING/FITNESS

Grade 10-12

2 Sem. 1 Credit

Prerequisite: Fitness Concepts

Our weightlifting class is designed to provide each student with the knowledge needed to understand the importance of strength and fitness training. Students will understand the importance of setting goals for personal improvement and achievement, and will leave the class with a lifelong understanding of how to maintain adequate physical fitness for a healthy lifestyle. Heart Rate Monitors will be worn on a regular basis to help students monitor and adapt their workouts to fit their personal needs.

SENIOR PE LEADER PROGRAM

Grade 12

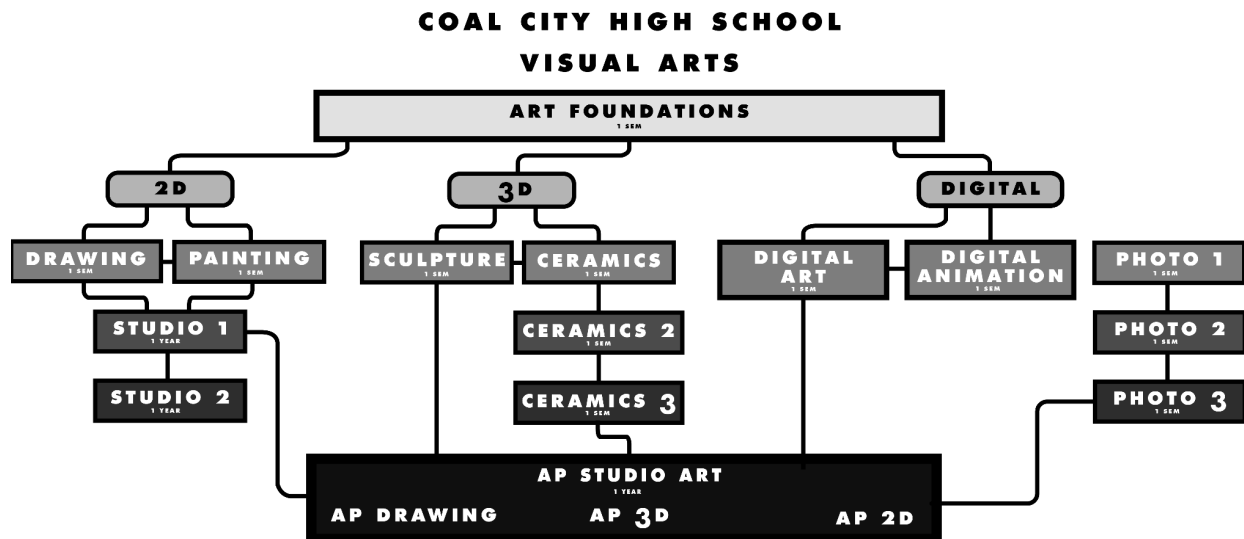
1 Sem. ½ Credits

Prerequisite: Application/Instructor Approval

The Senior PE Leader Program aims to create a mentorship opportunity for Seniors in our physical education program. Selected students will take on leadership roles while assisting the teacher and fostering a welcoming environment for incoming freshmen in the Fitness Concepts PE classes. This program not only enhances the physical education experience but also develops essential leadership skills among senior students. This course can be taken both semesters of the student's senior year.

FINE ARTS DEPARTMENT

Visual Art



2 Dimensional Art

ART FOUNDATIONS

Grade 9-12

1 Sem. 1/2 Credit

Prerequisite: None

This introductory course provides the students with an overview of Visual Art. In this class, elements and principles of visual design are identified and applied to a series of two-dimensional problems, leading to an appreciation and use of formal structure in art. * A lab fee of \$20 will be charged to cover the cost of project materials.

DRAWING

Grade 9-12

1 Sem. 1/2 Credit

Prerequisite: Art Foundations

Drawing introduces the student to basic drawing materials, techniques and skills. An emphasis is placed on developing the ability 'to see', to focus on the observation of three-dimensional forms and translate this to the two-dimensional picture plane. Students work on a variety of exercises and assignments designed to enhance this process. This involves working from still-life and observation. Basic approaches include mark-making, line quality, value, volume, toning, texture and the various methods that emphasize spatial qualities. Compositional strategies are also covered. Students explore the usage of drawing media such as charcoal, pencil, pen, brush/ink, pastel and colored pencil. * A lab fee of \$20 will be charged to cover the cost of project materials.

PAINTING

Grade 9-12

1 Sem. 1/2 Credit

Prerequisite: Art Foundations

Painting focuses on the introduction and exploration of various painting methods and materials. This includes an emphasis on color theory, value and composition. Work is done from still-life and the human figure as well as landscape to help students explore objective, observational, expressive and abstract methods. Students use basic painting materials such as acrylic, watercolor, colored pencils and oil pastels. * A lab fee of \$20 will be charged to cover the cost of project materials.

3 Dimensional Art

CERAMICS

Grade 9-12

1 Sem. 1/2 Credit

Prerequisite: Art Foundations

This introduction to ceramics introduces students to fundamental methods of forming clay. The basic technique for handbuilding (pinch pot, slab construction, and coil construction) will be demonstrated. Special emphasis is placed on the development of basic technique for throwing pots on the potter's wheel. Craftsmanship, creativity, and an appreciation for the elements that are inherent to well-made functional pottery are emphasized in this class. Students will learn how to finish their pieces with various types of glaze and firing techniques. The terminology and definitions of materials and ceramic processes as well as ceramic art history will be presented. *A lab fee of \$20 will be charged to cover the cost of project materials.

CERAMICS 2

Grade 10-12

1 Sem. 1/2 Credit

Prerequisite: Ceramics and Teacher Recommendation

This is a continuum of Ceramics. Students taking this course should possess a high degree of self-motivation. Ceramics 2 is intended for students who are eager to continue the exploration of Ceramic Art and develop their technical skills in a variety of clay techniques. Wheel Thrown and Handbuilt objects will be explored through a united body of work. Students must complete sketchbook assignments as homework along with self-assessments and personal and peer critiques. * A lab fee of \$20 will be charged to cover the cost of project materials.

CERAMICS 3

Grade 10-12

1 Sem. 1/2 Credits

Prerequisite: Ceramics 2 and Teacher Recommendation

Students must have successfully completed Art Foundations and Ceramics 1 and 2 as well as received a recommendation from their Art Instructor. This is a continuum of Ceramics 2. Students taking this course should possess a high degree of self-motivation. Ceramics 3 is intended for students who are eager to continue the exploration of Ceramic Art and develop their technical skills in a variety of clay techniques. Wheel Thrown and Handbuilt objects will be explored through a united body of work. Students must complete sketchbook assignments as

homework ,along with self-assessments and personal and peer critiques. ** A lab fee of \$20 will be charged to cover the cost of project materials.*

SCULPTURE

Grade 9-12

1 Sem. 1/2 Credit

Prerequisite: Art Foundations

In beginning sculpture, students are introduced to materials and methods of working with three-dimensional forms. This course gives a historical overview of sculpture and covers various aspects of 3-dimensional works, such as the production of simple and complex forms, subtractive work, contextual considerations and found objects. Students are introduced to hand and power tools along with safe shop practices. Mediums and methods include plaster, clay, stone, metal, wood, wire forms and soldering. The skills of cutting, soldering and polishing are taught with an emphasis on design, craftsmanship and safety. ** A lab fee of \$20 will be charged to cover the cost of project materials.*

JEWELRY AND METALS

Grade 9-12

1 Sem. ½ Credit

Prerequisite: Art Foundations

Jewelry and Metals introduces the use, design and creation of wearable art. Students learn basic jewelry fabrication and metalsmithing concepts, processes, materials, tools and equipment usage. They will work with various metals and jewelry techniques, such as wire wrapping, bead work, sawing, piercing, soldering and forming, to construct and create their own wearable art objects.

Digital Art

DIGITAL ART AND ILLUSTRATION

Grade 9-12

1 Sem. ½ Credit

Prerequisite: Art Foundations

This class will focus on developing skills in concept design and world-building through digital art and illustration. Students interested in Digital Art, Animation, Character Design, Visual Development, Concept Art, and Comics will enjoy this class. Students will express their visual creativity through digital art, storytelling, and other visual mediums. Students will explore the international history and evolution of animation and entertainment design. Students will demonstrate creative self-expression as they learn basic digital drawing/painting skills, techniques for original character design, and background development, which includes an in-depth study of perspective drawing and layout. Students will explore various projects that relate to specific careers in art using computer software. This course delivers a strong foundation to allow students to move on to other digital arts courses and eventually AP Studio Art: 2D Portfolio. ** A lab fee of \$20 will be charged to cover the cost of project materials.*

DIGITAL ANIMATION

Grade 9-12

1 Sem. ½ Credit

Prerequisite: Art Foundations

This is a class that will focus on the fundamentals of animation. This course covers the "12 Principles of Animation" as originally developed by the Walt Disney Studios. Students interested in Digital Art, Animation, Character Design, Visual Development, Concept Art, and Comics will

enjoy this class. Students will express their visual creativity through digital art, storytelling, and other visual mediums. Students will explore the international history and evolution of animation and entertainment design. Students will demonstrate creative self-expression as they learn basic digital drawing/painting skills, techniques for original character design, the natural flow and movement of objects. Students will explore various projects that relate to specific careers in art using computer software. This course delivers a strong foundation to allow students to move on to other digital arts courses and eventually AP Studio Art: 2D Portfolio.* *A lab fee of \$20 will be charged to cover the cost of project materials.*

DIGITAL PHOTOGRAPHY

Grade 9-12

1 Sem. ½ Credit

Prerequisite: None

Students will learn the basics of digital photography and composition through the use of the Elements and Principles of Design. Students will explore a variety of genres within subject matter and communicate a narrative through the still image. Students would need to provide a phone for some projects and be able to download their digital camera photos to their phone.

DIGITAL PHOTOGRAPHY 2

Grade 9-12

1 Sem. ½ Credit

Prerequisite: "C" or higher in Digital Photo 1

This is a continuum of Digital Photography 1. Students taking this course will be diving deeper into the world of digital photography. Students will develop their skills in Photoshop and will explore creative photographs. Students will study photographers and build a photography portfolio. This course will require students to have a higher level of thinking when it comes to the elements and principles of photography art.

DIGITAL PHOTOGRAPHY 3

Grade 10-12

1 Sem. ½ Credit

Prerequisite: "C" or higher in Digital Photo 2

Students must have successfully completed Photo 1 and 2, as well as, received a recommendation from their Photography Instructor. Students taking this course will have independent style work in gearing towards a career or lifestyle in Photography. Students will continue building their portfolio by making a logo, website, and social media. Students must publish through their website and social media, participate in contests and shows, and develop their own projects. This course will demand a high level of thinking, responsibility, quality of creative work, and ability to curate their work towards an independent show.

Art Studio

STUDIO 1

Grade 11

2 Sem. 1 Credit

Prerequisite: Drawing and/or
Painting & teacher recommendation

This is an advanced course in the Visual Arts that concentrates on Two-dimensional artwork. Students taking this course should possess a high degree of self-motivation. Studio 1 is intended for students who are eager to continue the exploration of Art and develop their technical skill in a variety of media. Students must complete sketchbook assignments as

homework, along with self-assessments and personal and peer critiques. * A lab fee of \$20 will be charged to cover the cost of project materials.

STUDIO 2

Grade 12

2 Sem. 1 Credit

Prerequisite: Studio 1 & teacher recommendation

This is a continuum of Studio 1. Students taking this course should possess a high degree of self-motivation. Studio 1 is intended for students who are eager to continue the exploration of Art and develop their technical skill in a variety of media. Students must complete sketchbook assignments as homework, along with self-assessments and personal and peer critiques. * A lab fee of \$20 will be charged to cover the cost of project materials.

AP STUDIO ART: 2D PORTFOLIO

Grade 11-12

2 Sem. 1 Credit

Prerequisite: Art Fndt, Drawing and/or Painting, Digital Art, Photo 1/2 & Studio

Students must have successfully completed Art Foundations and a course in Drawing and/or Painting and Studio 1 or a course in Digital Art or Digital Photography as well as received a recommendation from their Art Instructor. This portfolio is intended to address two-dimensional (2-D) design issues. Design involves purposeful decision-making about how to use the elements and principles of art in an integrative way. For this portfolio, students are asked to demonstrate an understanding of 2-D design through any two-dimensional medium or process, including, but not limited to, graphic design, digital imaging, photography, collage, fabric design, weaving, fashion design, fashion illustration, painting and printmaking. Video clips, DVDs, CDs and three-dimensional works may not be submitted. However, still images from videos or lms are accepted. There is no preferred (or unacceptable) style or content. Links to student work samples in the 2-D Design portfolio can be found on AP Central® at apcentral.collegeboard.org/studio2D. * A lab fee of \$20 will be charged to cover the cost of project materials.

AP STUDIO ART: DRAWING PORTFOLIO

Grade 11-12

2 Sem. 1 Credit

Prerequisite: Art Fndt, Drawing and/or Painting, Digital Art & Studio

Students must have successfully completed Art Foundations and a course in Drawing and/or Painting and Studio 1 or a course in Digital Art as well as received a recommendation from their Art Instructor. This portfolio is designated for work that focuses on the use of mark-making, line, surface, space, light and shade, and composition. Students should consider marks that can be used to make drawings, the arrangement of marks, the materials and processes used to make marks, and relationships of marks and ideas. Students can work with any materials, processes, and ideas as long as the work is the student's original creation. As a reminder, the use of Artificial Intelligence tools is prohibited at any stage of the creative process and while students can build upon pre-existing

artist-created works, students must be the principal artist or designer of the work they submit. Drawing (analog and digital), painting, printmaking, and mixed media work are among the possibilities for submission. Still images from videos or films are accepted. Composite images may be submitted. ** A lab fee of \$20 will be charged to cover the cost of project materials.*

AP STUDIO ART: 3D PORTFOLIO

Grade 11-12

2 Sem. 1 Credit

Prerequisite: Art Fndt, Ceramics,
Sculpture

Students must have successfully completed Art Foundations and a course in Drawing and/or Painting and Studio 1 as well as received a recommendation from their Art Instructor. This portfolio is designated for work that focuses on the application of three-dimensional (3-D) elements and principles of art and design, including point, line, shape, plane, layer, form, volume, mass, occupied/unoccupied space, texture, color, value, opacity, transparency, time; unity, variety, rhythm, movement, proportion, scale, balance, emphasis, contrast, repetition, connection, juxtaposition, hierarchy. Students should consider how materials, processes, and ideas can be used to make work that involves space and form. Students can work with any materials, processes, and ideas as long as the work is the student's original creation. As a reminder, the use of Artificial Intelligence tools is prohibited at any stage of the creative process and while students can build upon pre-existing artist-created works, students must be the principal artist or designer of the work they submit. Figurative or non-figurative sculpture, architectural models, metalwork, ceramics, glasswork, installation, performance, assemblage, and 3-D fabric/fiber arts are among the possibilities for submission. Still images from videos or films are accepted. Composite images may be submitted. ** A lab fee of \$20 will be charged to cover the cost of project materials.*

Music

Choir Courses

**Coaler Choir
Concert Singers**

Band Courses

**Marching Band
(1st semester)
Concert Band or
Symphonic Band
(2nd semester-
audition)
Percussion Ensemble**

General Courses

**Piano 1
Piano 2
Guitar 1
Guitar 2
Music in Film
Pop, Bach, and Rock
Music Studio
Music Tech 1/2
AP Music Theory**

Choir Courses

COALER CHOIR

Grade: 9-12

2 Sem. 1 Credit

Prerequisites: None

This course will explore an array of different styles of vocal music. Students will perform throughout the school year at several different school events, conferences, and community events. Students will learn what it takes to be a member of a performing group while learning vocal technique, and proper performance etiquette in preparation for auditioning for Concert Singers. Students will be required to participate in performances that happen outside of the school day. This includes but is not limited to the Winter Concert, Fine Arts Festival, IHSA Organizational Contest and Spring Concert.

CONCERT SINGERS

Grade: 10-12

2 Sem. 1 Credit

Prerequisite: Instructor Approval

This class will explore different styles of vocal music, from its earliest works to music of contemporary composers. Students have the opportunity to perform with the ensemble in many different settings from concerts held at the school to participation in conference activities, and state activities, as well as exploring Chamber Music for the voice in solos and ensembles. Vocal students will study the techniques of vocalization as well as gain valuable experience rehearsing and performing vocal literature that is both challenging and rewarding. Students will be required to participate in performances that happen outside of the school day. This includes but is not limited to the Fall Concert, Conference Choral Festival, Winter Concert, Fine Arts Festival, IHSA Organizational Contest and Spring Concert. All students will also be required to audition for the ILMEA District Festival. Students will have the opportunity to audition for this choir during the prior spring semester.

Band Courses

CONCERT BAND (Spring Semester)

Grade 9-12

2 Sem. 1 Credit

Prerequisite: Prior Band experience

This course will take place during the spring semester after all students participate in the fall marching band class. Students will be exposed to many different and challenging styles of music that are at a beginning to intermediate level. This class will focus on the Concert genre where music from standard band literature is performed. Students will learn what it takes to be a member of a performing group while learning instrument technique, and proper performance etiquette in preparation for auditioning for Symphonic Band. Students will have the opportunity to audition for the Symphonic band during the prior fall semester. Students in concert and symphonic band will also be required to participate in various pep band and school spirit activities that happen outside of the school day.

SYMPHONIC BAND (Spring Semester)

Grade 9-12

2 Sem. 1 Credit

Prerequisite: Auditioned Based Band

This course will take place during the spring semester after all students participate in the fall marching band class. Students will have the opportunity to audition for the Symphonic band

during the prior fall semester. If not selected they will remain in the concert band. Students will be exposed to many different and challenging styles of music that are at an intermediate to advanced level. This class will focus on the Concert genre where music from standard literature is performed. Students in concert and symphonic band will also be required to participate in various pep band and school spirit activities that happen outside of the school day.

PERCUSSION ENSEMBLE

Grade 9-12

2 Sem. 1 Credit

Prerequisite: Prior band experience or Director approval

The purpose of this course is to offer students a well-rounded approach to learning percussion instruments in order to develop general musicianship. Students will have the opportunity to develop their skills in all areas of percussion including mallets, pitched and non-pitched percussion, and auxiliary instruments. The students will participate in numerous types of percussion ensembles and will be assigned to perform with the Concert Band. It is expected that participants are enrolled in the course for the entire year, that they are serious about music, and that they will participate as needed outside of class in order to perform successfully. Students will be required to participate in some performances that happen outside of the school day.

General Music Courses

PIANO 1

Grade 9-12

1 Sem. ½ Credit

Prerequisite: None

Class Max is 14. This course is designed to teach the fundamentals of piano and electronic keyboards. Instruction will focus on proper technique and encompass a variety of musical styles such as rock, folk, blues and classical. We will study reading lead sheets, staff notation, and music theory. Whether you have played the piano for 10 years or 0 years, this class is for you.

PIANO 2

Grade 10-12

1 Sem. ½ Credit

Prerequisite: Piano 1 or instructor approval

Class Max is 14. This course is designed to teach the fundamentals of piano and electronic keyboards. Instruction will focus on proper technique and encompass a variety of musical styles such as rock, folk, blues and classical. We will study reading lead sheets, staff notation, and music theory. Whether you have played the piano for 10 years or 0 years, this class is for you.

GUITAR 1

Grade 9-12

1 Sem. 1/2 Credit

Prerequisite: None

Students will be instructed in learning all aspects of producing sound on the guitar along with music reading, music theory, and selected historical, cultural and technical contributions. This course is for students who have no prior experience in playing the guitar.

GUITAR 2

Grade 10-12

1 Sem. ½ Credit

Prerequisite: Guitar 1

Students will be instructed in learning more difficult aspects of producing sound on the guitar as well as more complicated technique and more difficult chords. Students will also be challenged with more difficult music reading, music theory, and selected historical, cultural, and technical contributions that will aid in bringing their guitar playing to the next level.

MUSIC IN FILM

Grade 9-12

1 Sem. ½ Credit

Prerequisite: None

This course is a semester-long study of how music has affected movies. We will look at popular movies like Star Wars and Indiana Jones, with music written by John Williams. Take a dive into Sondheim Musicals and many more. You will learn to appreciate and understand the choices that film composers have made while having a blast.

POP, BACH, & ROCK

Grade 9-12

1 Sem. 1/2 Credit

Prerequisite: None

Music has played and continues to play a vital role in enriching the lives of all who experience it. Enjoyment of music can be expanded when it is infused with historical context, explores multiple styles and genres and when it is examined within the larger social, cultural and artistic environment. In this class, students will listen to, analyze and evaluate music and musical performances from a historical to a contemporary perspective. As a result, students will develop greater historical knowledge of music, gain exposure to a variety of musical styles, advance their ability to connect their own musical interests to history, create a foundation to inform their future musical experiences and investigate potential music industry applications that might be relevant to their lives.

MUSIC TECHNOLOGY

Grade 9-12

1 Sem. ½ Credit

Prerequisite: None

This course offers students – regardless of their experience or background – an opportunity to learn about popular music styles spanning from jazz to rock, as well as the technologies available to create and record their own music electronically. The study of various genres of music is used to explore the effective elements of sound, songwriting and performance. Students do not need to have a formal music background. The course caters to the needs of students who do not play a musical instrument, but are still interested in learning the basics of music through the use of composition and music theory, music technology and recording software programs, and introductory keyboard, ukulele and singing. Students have the opportunity to produce several examples of guided, self-generated music, making the class suitable and appropriate for all ability levels. The course also allows students to expand their prior knowledge of an instrument, voice, or other creative media.

MUSIC TECHNOLOGY 2

Grade 10-12

1 Sem ½ Credit

Prerequisite: Music Tech. 1

A course that builds on foundational concepts to teach advanced skills in audio production, such as manipulating sound, mixing, and mastering in a digital audio workstation (DAW). This will include project-based learning like producing studio and live recordings, organizing events, and composing with advanced software and hardware.

MUSIC STUDIO

Grade 10-12

1 Sem. ½ Credit

Prerequisite: Instructor Approval

Open to students who have successfully completed Guitar 1 and 2, Piano 1 and 2, or would like additional time to practice their instrument/Voice. Students will select, study, rehearse, and perform intermediate music with correct technique and expression. Students will have the opportunity to participate in a concert at the conclusion of the semester in a solo performance.

AP MUSIC THEORY

Grade 11-12

2 Sem. 1 Credit

Prerequisite: Instructor Approval

The goal of this course is to develop the student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. Students will understand the rudiments of musical language (i.e. notation, intervals, rhythm, and meter) and develop his/her critical and creative awareness of musical forms and structures through score analysis, harmonic realization, and composition exercises. Exercises and assignments will be designed both to develop and enhance the student's speed and fluency in basic notational skills and to prepare the students for the AP Music Theory exam.

Theater Arts

INTRODUCTION TO THEATER

Grade 9-12

1 Sem. 1/2 Credit

Prerequisite: None

Students taking this course will study the foundations of theater. Not only will students learn the basics of set construction, lighting design, and theater management, they will also learn about the roles within theater and how they pertain to creating new work. With a brief overview of the fundamentals and history of theater, this course is a perfect introductory elective. Please note, students enrolled in this course may help build, paint, or design for our theater department productions.

THEATER TECHNICIAN

Grade 9-12

1 Sem. 1/2 Credit or 2 Sem. 1 credit

Instructor Approval

Students taking this course will receive detailed training in sound design, lighting design, set design/construction, costume design/management, and/or stage management. Students will receive a more in-depth training on their focus area, and will apply these skills to our productions and CCPAC events. Students will work closely with the auditorium manager and directors to execute projects for PAC events/productions. This course may be repeated with instructor permission, and enrolled students may apply for a student technician position within the CCPAC. THIS CLASS CAN BE TAKEN 1 or 2 SEMESTERS & FOR MULTIPLE YEARS OF CREDIT.

THEATER STUDIO 1

Grade 9-12

1 Sem. 1/2 Credit

Prerequisite: Intro to Theater

This is an introductory course in Theatre Arts that focuses on various aspects of theater and the design processes. Students taking this course should possess a high degree of self-motivation. Theater Workshop 1 is intended for students that are eager to continue the exploration of the performing arts, or technical design, and want to develop their skills further. Students will choose a 'track' to explore throughout the semester, as they work to develop their skills further. Performance tracks include: acting, improvisation, radio/voiceover. Technical tracks include: lighting design, scenic design, costume design, prop design. Production tracks include: playwriting, directing, marketing, and stage management.

THEATER STUDIO 2

Grade 10-12

1 Sem. 1/2 Credit

Prerequisite: Theater Workshop 1

This is an advanced course in Theatre Arts that builds on the skills you developed during Theater Workshop I. Students taking this course should possess a high degree of self-motivation. Theater Workshop 2 is intended for students that want to continue their exploration of the track they chose in theater workshop 1, or explore a new track. Performance tracks include: acting, improvisation, radio/voiceover. Technical tracks include: lighting design, scenic design, costume design, prop design. Production tracks include: playwriting, directing, marketing, and stage management. ***Performance/presentation component included.***

Grundy Area Vocational Center-

Course Descriptions

- To be eligible to attend G.A.V.C, students must be on track to meet graduation requirements and demonstrate good attendance.
- Upcoming juniors must have earned at least 13 credits by the end of sophomore year
- Upcoming seniors must have earned at least 20 credits by the end of the junior year
- Disclaimer-- Dual Credit is subject to change based on revisions made from Joliet Junior College. GAVC has no control over this entity.

AGRICULTURE EDUCATION

AGRICULTURE SCIENCE I

Grade 11-12

2 Sem. 4 Credit

Prerequisite: None

In the Agriculture I class students will dive into the purpose, management, health and physiology of animals such as fish/marine life, chickens, cattle, pigs, goats, sheep, cats and dogs. Students will have opportunities to handle each animal, learn how to train them and keep some in the classroom/at the school farm as projects for the year. These projects will be treated as businesses, where students will make managerial decisions on the production and marketing of their products. Along with learning how to train and care for animals, students will learn about the scientific and technological side of modern agriculture as it pertains to crops and animals. Students will also become more informed on meat production, processing and marketing. In the spring, students will maintain their animal projects as well as explore plant science concepts. Agriculture is incorporating more science and technology, therefore, students will gain insight on these new concepts while applying them to traditional production methods. Students will be involved with the planting and harvesting of the plot.

AGRICULTURE SCIENCE II

Grades 12

2 Sem. 4 Credits

Prerequisite: Successful completion of Agriculture Science I with grade C or better

In the Agriculture Science II class, students will continue and extend their SAE projects developed in Ag Science I. Students will be required to keep a record book on their project. They will also be responsible for furthering their research and creating a more challenging project during this class. Students will study Agriculture Business and its many areas of focus including greenhouse management, floral design, veterinarian technology, and biological sciences.

BUSINESS, MARKETING & COMPUTER EDUCATION

COMPUTER GRAPHICS & MULTIMEDIA DESIGN I

Grades 11-12

2 Sem. 4 Credits

Prerequisite: None

This interactive multimedia course provides occupational preparation for careers in the digital design and multimedia world. Students will master a wide variety of skill sets ranging from graphic design; including pixel/vector base editing, page layout design, video and audio editing, motion graphics and visual effects, and 3d modeling and virtual reality. This class will also touch on areas like UX design and mobile app development. They will learn to utilize complex equipment such as Wacom Intuos drawing tablets, 4k Video Cameras, DSLR cameras, GlideCam XR-Pro, and the HTC Vive. Students will have direct access to a green screen/Virtual Reality studio built right in the classroom. Adobe CC Suite is available with heavy focus on Photoshop, Illustrator, Audition, Premiere Pro, and After Effects. 3d Modeling software will be Blender/Autodesk 3ds Max. This is a great opportunity for students to express themselves creatively with computers.

COMPUTER GRAPHICS & MULTIMEDIA DESIGN II

Grade 12

2 Sem. 4 Credits

Prerequisite: Computer Graphics & Multimedia Design I, with a C or better.

Students will apply and expand their knowledge and skills acquired in Computer Graphics & Multimedia Design I. Students are afforded the opportunity to select a software(s) area of interest, from Computer Graphics & Multimedia Design I, and focus intently on it. Other programs such as Adobe XD, Adobe Animate, FL Studio, Unity, Blender, and Unreal Engine will be available for them as well. The goal of this class is for students to walk away with an updated/completed portfolio that is ready for life after high school.

ENTREPRENEURSHIP I

Grades 11-12

2 Sem. 4 Credits

Prerequisite: None

This program offers students an authentic entrepreneurship experience while gaining knowledge and skills necessary to own and operate their own businesses. Students will develop professionalism while playing an active role in a student centered T-shirt printing company called Express Impress. They will participate in situations closely resembling actual on-the-job situations. Through these experiences, students will gain insight into the work environment, thereby assisting in their own transition from school to the workplace. This course will also provide occupational preparation for careers in the digital media and graphic communications world. Students will master a wide variety of skill sets ranging from graphic design, digital media, and visual communication. Adobe CC Suite is available with heavy focus on Photoshop, Illustrator, and Premiere Pro. This course is also designed to develop computer application skills that include word-processing and spreadsheet software in a Windows environment using Microsoft Word and Excel. Microsoft Office curriculum will be enriched with daily application in projects and student work. Students will utilize the intuitive functions of these programs in order to increase efficiency and productivity while supporting creative usage. Lastly, students will be in charge of creating the GAVC yearbook. Students will learn basic principles of yearbook production and develop skills that include writing copy, captions, headlines, digital photography, and desktop publishing.

ENTREPRENEURSHIP II

Grades 12

2 Sem. 4 Credits

Prerequisite: Successful completion of Entrepreneurship I

The Advanced Entrepreneurship Program at the Grundy Area Vocational Center offers high school seniors an immersive experience in business innovation and leadership. Students will master Intuit Design for Delight Innovator methodology, complemented by their Entrepreneurship Small Business certification from year one, culminating in a prestigious Master Certification in Entrepreneurship. Through hands-on projects, students will hone their proficiency in Microsoft Office applications, earning level two certifications in Word, Excel, and PowerPoint. They'll take charge of managing and leading the Express Impress School Business, overseeing orders and guiding first-year students through the process. Additionally, students will take on the role of chief editors for the GAVC yearbook, mentoring first-year staff editors to ensure a polished final product. Advanced Canva courses will empower students to craft compelling presentations, master social media strategies, and develop their personal and business branding. Moreover, students will have the freedom to pursue specialized projects aligned with their interests, preparing them for future endeavors in entrepreneurship and beyond. This comprehensive program equips students with the skills, knowledge, and autonomy necessary to thrive in the dynamic world of business.

JJC BUSINESS/FINANCE ACADEMY

Grades 12

2 Sem. 4 Credits

Prerequisite: None

This dual enrollment course is offered through a partnership with Joliet Junior College and will take place at the main campus in Joliet, IL. Students are responsible for arranging their own transportation to and from the main campus. They must complete the first course with a grade of 'C' or higher to proceed to the second semester. Good attendance is crucial for college success.

ACCY 101 - The first college-level course in accounting emphasizes financial accounting. This course covers the accounting cycle, assets, liabilities, and stockholders' equity. Attention is given to providing the student with an understanding of accounting procedures and the ability to use accounting data effectively. Computer applications are included. This course is designed for students who plan to continue with additional courses in the field, as well as for those whose needs are limited to an introductory course.

ACCY 102 - Continuation of ACCY 101. The emphasis of this second accounting course is on managerial accounting. Included in this course are the fundamentals of job order and process-cost systems, cost-volume-profit analysis, budgeting, variance analysis, and other topics. Computer applications are included. Prerequisite(s): ACCY 101

ECON 103 - A study of economic forces underlying the economic system with special emphasis on an analytical approach to determining price, national product, saving, consumption, investment, employment, growth, and economic stability, banking system, and international economics.

ECON 104 - A study of economic relationships at the level of the individual consumer, firm, and industry. This course explores pricing and output in different market settings, regulation and antitrust policy, market failure, and wage determination. Prerequisite(s): ECON 103

Students are required to provide their own transportation to and from class at Joliet Junior College (JJC) Main Campus, Joliet. A JJC registration application for the program is required. Dual Credit: Joliet Junior College ACC101, ACC102, ECON103, and ECON104 (14 credit hours) Guidance notes: Senior-only program. Recommended for students with a strong interest in business and accounting. Documentation of a 95% attendance rate, a 3.0 GPA, and a record of good behavior.

HEALTH SCIENCE TECHNOLOGY

HEALTH OCCUPATIONS I

Grades 11-12 2 Sem. 4 Credits Prerequisite: None

This course includes skills to prepare the health science student for a solid foundation in the health care field. The student receives instruction in the basic fundamentals of patient care both in theory and clinical practice. The student will develop basic skills in body mechanics, medical asepsis, ethics, safety and medical terminology, as well as personal care of patients. Participation in clinical practice at local health care facilities provides the student with actual hands-on experience in a variety of situations. Students are required to complete a physical and 2 step TB test to participate in clinical practices. Upon successful completion of the course, the student will be prepared to take the State Certified Nursing Assistant exam. Students must maintain an 80% or better throughout the course in order to qualify to take the State Certified Nursing Assistant exam.

HEALTH OCCUPATIONS II

Grade 12 2 Sem. 4 Credits Prerequisite: Successful completion of Health Occupations I with an 80% or better. Successful completion of the Certified Nursing Assistant Examination.

The course includes skills to prepare the health science student for a specific career in the health science and technology field. The student will be exposed to a variety of occupations in both nursing and an allied health field. The first semester will provide reliable and realistic information about health careers with virtual learning experiences. The student will be exposed to additional knowledge in medical language and hands-on skills including suturing, phlebotomy techniques, EKG placement, Virtual Simulation Stations, medical math, and job skills training. Students will develop a portfolio for working in the health care industry, which includes extensive material from their clinical rotation at Morris Hospital. Anatomy and pathology are discussed for interest and background rather than for mastery.

TECHNOLOGY & ENGINEERING EDUCATION (INDUSTRIAL ORIENTED)

AUTOMOTIVE TECHNOLOGY I

Grades 11-12 2 Sem. 4 Credits Prerequisite: None

This course is ASE Education Foundation (ASEF) accredited. The course covers shop orientation and safety procedures including use of the lifts and hand tools. The core content will focus on tire repair and replacement procedures, vehicle fluid services, basic brake system

service and operation, steering and suspension service with alignments, basic automotive electrical system operation and repair, and engine performance diagnostic procedures. Students will have the opportunity to learn about engine disassembly and reassembly as well as theory of operations.

AUTOMOTIVE TECHNOLOGY II

Grade 12

2 Sem. 4 Credits

Prerequisite: Automotive Technology I, with a C grade or better.

This course focuses on advanced automotive systems and service procedures. It will go more in depth in diagnosing and repairing vehicles and repairing vehicle faults created by the instructors. This course will also go more in depth in braking systems to include anti-lock brakes and brake boosters. Students will diagnose alignment issues and perform alignment work on customer vehicles. Second year students will have a larger focus on engine performance diagnosis covering everything from fuel, ignition, exhaust, starting and charging, and emission system diagnosis and repair. Air bag and passenger restraint system safety and procedures will also be covered along with advanced electrical diagnostics with vehicle computer systems and components. Students will have the opportunity to earn 8 different Automotive Service Excellence (ASE) student certifications, upon completion of each corresponding module.

AVIATION 1

GRADE: 11-12

2 Sem. 4 Credits

Prerequisite: None

This course introduces students to airplane piloting and the navigation field. Instructional units include principles of flight, the flight environment, aircraft systems and performance, meteorology for pilots, interpreting weather data, and basic navigation, instructional units in radio navigation systems, aviation physiology, flight planning and decision making, aviation history, the nature of space, rockets, and space flight, and careers in aviation and aerospace.

BUILDING TRADES PHASE I

Grades 11-12

2 Sem. 4 Credits

Prerequisite: None

Students will build a single family home. Students will explore and learn all of the facets of the first phase of residential new construction. This includes safety as a priority, technical math / layout, excavation, concrete, structure framing, rough electrical wiring, and roofing. Along with these tasks students will also learn to safely operate a vast array of equipment which is used industry wide to perform these tasks. As the students come to know what is involved in the different areas of construction, they will be able to make an informed choice as to which area of the building trades they would like to pursue as a vocation.

BUILDING TRADES PHASE II

Grade 12

2 Sem. 4 Credits

Prerequisite: None

Students will complete the construction of a single family home. Students explore all of the facets of the second phase of new residential construction. This includes safety as a priority, technical math, HVAC, finish plumbing, trim/interior finishes, painting, insulation, flooring, and

finish electrical work. Along with these tasks students will learn to safely operate a vast array of equipment which is used industry wide to perform these tasks.

JJC ACE: ARCHITECTURE, CONSTRUCTION MANAGEMENT, ENGINEERING

Grade 12

2 Sem. 4 Credits

Prerequisite: None

The JJC ACE program is designed to provide the student with a broad overview of the skills and knowledge necessary to pursue an exciting career in the architecture/construction/engineering field. Through relevant and challenging college courses, the student will receive a solid foundation in the introductory and fundamental coursework in the professional tracks of the building industry. The ACE program has been designed for those students interested in the built environment and are considering career pathways in the field of architecture, engineering or construction management. With 12 hours of college credit to be earned, the student will explore each discipline and can apply those credits to the track best suited to their interest for further study.

Each discipline, Architecture, Construction Management and Engineering, has an introductory course intended to provide the student an insight into the different career alternatives and the educational and professional path available in that discipline. Beyond career exploration, each introductory class also covers the terminology, processes, skills, and industry specific content to give the student a full snapshot of not just that discipline, but how all disciplines in the building industry work together to build our communities. In addition, the ACE program includes a course in Blueprint reading designed to provide the proper knowledge and skills to be able to read a set of blueprints; a fundamental, required skill for all disciplines and individuals in the building industry. The students will also receive their OSHA 10 Construction Safety card, an industry credential, by successfully completing a 1 ½ day weekend training course in the program.

Also included is an introductory course in Sustainability. While the content covers sustainability in the AEC industry, it also introduces the basic fundamentals in sustainability as a societal, global, multi-discipline approach. The course serves as a general education credit in the pursuit of many associate and advanced degrees.

Students will need their own transportation to and from class. They will be dual enrolled earning high school and college credit for ARCH 100, CM 100, EGR 105/AEC 299, AEC 106, OPS 111 and SET 100, a total of 12 credits (see page 2 for course descriptions).

Students will need their own transportation to and from Joliet Junior College. They will be dual enrolled earning high school and college credit for the above listed courses.

Guidance Notes: Solid math skills needed with record of good attendance and behavior.

Highlights of the Program:

- Students will attend courses at JJC Main campus, M-F, 12:30p – 2:30p (exact times TBD)
- Schedule to follow JJC calendar including holidays, spring break, etc.
- Attendance requirements to follow JJC course policies: Due to the progression of topical content and hands-on labs, attendance is mandatory in all course sessions unless excused by the instructor.
- Class size limited to 15 students
- Textbooks and supplies provided by JJC
- JJC Program advising available for academic and career planning

JJC AET: APPLIED ENGINEERING TECHNOLOGY

Grade 12

2 Sem. 4 Credits

Prerequisite: None

Students in the AET program which is located at **Joliet Junior College Main Campus** will have an opportunity to focus on the application and implementation of design theory. During the first semester, students will participate in both classroom and hands-on shop experience. In the shop, emphasis is placed on exercises and projects that embody the basic processes and operations in using hand tools, layout tools and machine tools such as vertical saw, drill presses, engine lathes, vertical milling machines, and surface grinders. In the classroom, emphasis is placed on the theory related information that is essential to set up and operate machine tools and to perform basic processes and operations in the machine shop. Students will earn 4 credits for MFG101 (Precision Machine Technology I).

During the second semester, students will acquire knowledge and skills in the use of numerical control and computer numerical control milling and turning machines. The course will also include NC and CNC general concepts and programming procedures. Students will have “hands-on” experience in programming, setting-up, and operating an NC milling and drilling machine and a CNC milling and drilling machine. Students will become familiar with Windows NT and the use of the computer program “Notepad.” In addition, students will work to develop a high degree of skill in visualizing and interpreting prints. The class work includes the principles of orthographic projection, dimensions and tolerances, the application and interpretation of machining, and welding symbols and specifications. This course also covers the reading of numerical control prints, sheet metal prints, machining prints, welding prints, and instrumentation and control diagrams. Students earn 7 credits for MFG 111 and 115 (Numerical Controls and Blueprint Reading for **Manufacturing and Welding**).

JJC AIM: ADVANCED INTEGRATED MAINTENANCE

Grade 12

2 Sem. 4 Credits

Prerequisite: None

This senior only program is offered in partnership with Joliet Junior College and will be held at Main Campus on Houbolt Rd, Joliet, IL. Students will participate in four separate college courses building skills and awareness in industrial maintenance, industrial fluid power, basic wiring/circuit design and electrical controls for heating, ventilation, and air conditioning systems. The AIM program will provide students with the core education and technical hands-on skills to further pursue careers in the advanced manufacturing sector. The demand for highly skilled technicians continues to grow everyday right here in our district.

In the Industrial Maintenance Technology courses, students will learn about OSHA safety programs, maintenance physics, hand and power tools, precision measuring, technical diagrams and assembly prints, fastening devices, lubrication, basic pump operation, and basic pipefitting procedures. Building on that knowledge, study will continue on the principles of hydraulics and pneumatics as applied to the basic theory of fluids and typical industrial circuits. Students will build fluid power circuits as applied to industrial applications.

In addition, students will learn the fundamentals of electrical and electronic circuits, including the calculation and measurement of voltage, current, resistance and power with emphasis placed on safe meter usage, print reading and exposure to a variety of electrical technologies currently used in industry including: introductory residential wiring, operation of AC motors, industrial solid-state devices, variable frequency drives, industrial controls, and single-phase/three-phase

power distribution. Also included are the skills necessary to safely use electronic test equipment on low- and high-voltage components, and the details of installation, service, troubleshooting, and repairs on various types of electrical controls, circuits and components in the HVAC industry.

Students will need their own transportation to and from class. They will be dual enrolled earning high school and college credit for IMT101, IMT121, HVAC120, and EEAS101, a total of 13 credits.

Guidance Notes: Solid math skills needed with record of good attendance and behavior.

Highlights of the Program:

- Students will attend courses at JJC Main campus, M-F, 7:30a – 9:30a
- Schedule to follow JJC calendar including holidays, spring break, etc. with any minor adjustments as necessary
- Attendance requirements to follow JJC course policies: Due to the progression of topical content and hands-on labs, attendance is mandatory in all course sessions unless excused by the instructor.
- Class size limited to 9-12 students
- Safety and lab equipment provided by JJC
- Participation and invitation to JJC career events and industry visits highlighting advanced manufacturing companies
- Participation in career skills ‘boot camps ‘ including resume, interview skills, etc.
- Potential for summer internships

WELDING AND FABRICATION I

Grade 11-12

2 Sem. 4 Credits

Prerequisite: None

This class trains students for a career in Metal Fabrication. Whether your goal is simply to fabricate ideas in your garage, build your own chopper, fabricate a race car or go on to a career in construction such as an ironworker, pipe fitter, heavy equipment operator, sheet metal worker, and auto body repair. This class will teach all types of welding and cutting used readily today such as Plasma Arc Cutting, Oxy Fuel Cutting, Stick Welding, Tig Welding, and Mig Welding. You will also possess the knowledge to set up the latest in cutting edge welding equipment for various welding processes and applications.

WELDING AND FABRICATION II

Grade 12

2 Sem. 4 Credits

Prerequisite: Welding and Fabrication I, with a C grade or better.

This class will take your welding ability to the next level. Depending on your future goals, we will tailor your second year to give you the edge needed in today’s workforce or college. Second year welding students find themselves doing more fabrication from blue-prints and shop drawings. Most two-year dedicated well applied students come straight out of GAVC and go right into welding jobs in local Industry.

HUMAN AND PUBLIC SERVICES

COSMETOLOGY

Grades 11-12

2 Sem. 5 Credits

Prerequisite: Basic Math, Science, Reading

and Anatomy

Students will receive training at the Franklin Cosmetology Institute, located in downtown Morris. The goal of the program is to adequately prepare students through training, theory, and practical in order to successfully pass the Illinois state requirements to become a professional, licensed cosmetologist. Students participate in both classroom and practical experiences.

Training in this field provides for career opportunities as a licensed Cosmetologist. Disciplines taught include haircutting, hair coloring, styling, texture services, skin care, waxing, manicuring, and nail enhancements. This Illinois State license would allow the student to specialize in one, or all subject matter taught. To become a professional Cosmetologist, the State of Illinois requires 1500 clock hours of training by a licensed Cosmetology school, and a passing grade of 75% on the State Board licensing exam. Visit franklincosmetology.net for enrollment dates, or email us at franklininstitute100@gmail.com. for more information. This program is designed to be a 2 year program.

CRIMINAL JUSTICE I

Grades 11-12

2 Sem. 4 Credits

Prerequisite: None

Students will be educated in a wide range of criminal justice topics such as law enforcement, corrections, parole, probation, court system, security management, current legal issues, terrorism, as well as other related areas of the criminal justice system. The purpose of this course is to provide students with basic information to understand the criminal justice system and/or to pursue a career in the criminal justice field, both public or private. This program is a blend between traditional teaching methods and strategies, as well as hands-on/skill related activities. Local criminal justice professionals give specialized presentations and field trips are taken to local criminal justice facilities.

CRIMINAL JUSTICE II

Grade 12

2 Sem. 4 Credits

Prerequisite: Successful completion of Criminal Justice I with a "C" or better.

Criminal Justice 2 will continue to reinforce and enhance the knowledge and skills learned in Criminal Justice 1. In addition, Criminal Law, White Collar Crime, and Drug Use and Abuse in the Criminal Justice System will be studied. Students also may be afforded the opportunity to participate in a job shadow program with a local law enforcement/criminal justice agency. This program is a blend between traditional teaching methods and strategies, as well as hands-on/skill related activities. Local criminal justice professionals give specialized presentations and field trips are taken to local criminal justice facilities.

CULINARY ARTS I

Grades 11-12

2 Sem. 4 Credits

Prerequisite: None

The Culinary Arts program will provide students an opportunity to build interest and skill in essential and advanced culinary theory and techniques. Students will gain exposure and training in both lecture and lab experiences necessary to advance towards future study and practice in the culinary profession. Areas of study may include: Foodservice History, Sanitation & Safety; Equipment Usage; Basic & Technological Aspects in Foodservice Preparation; Nutrition; Classical Cooking; Ordering, Purchasing, Receiving & Inventory Controls; Customer Relations; Vocational Ethics.

CULINARY ARTS II

Grade 11-12

2 Sem. 4 Credits

Prerequisite: Culinary Arts I

The Culinary Arts program will provide students the opportunity to expand their knowledge and skill base gained in Culinary Arts I. Students will develop advanced cooking skill and technique and increase their understanding of critical culinary and business theory. Areas of study may include: Foodservice History, Sanitation & Safety; Equipment Usage; Advanced Aspects in Food service Preparation; Nutrition; Classical Cooking; Ordering, Purchasing, Receiving & Inventory Controls; Customer Relations; Vocational Ethics.

FIRE SCIENCE I

Grade 11-12

2 Sem. 4 Credits

Prerequisite: None

The Fire Science I course is designed to provide a basic understanding of the fire protection career field and to prepare the fire science student for entry into the Fire Science II program. It is, further, intended to prepare the student for entry into a State approved firefighter certification program and/or a college or university Fire Technology degree program.

The curriculum is based on the standards established by the Illinois State Board of Education, the Illinois State Fire Marshal's office, the National Fire Protection Association, the National Fire Academy, the Department of Transportation, the Department of Public Health, and the Fire and Emergency Services National Professional Development Model. Students will learn about a variety of career choices available within the field of fire protection, and the knowledge, skills and abilities which are required of each.

The course of study will include the following domains: Basic First-Aid and CPR; Orientation and Organization (JJC Dual Credit course FSCI 101, Principles of Emergency Services, 3 credits); Fire Hose; Fire Streams; Firefighter Safety and Health; Firefighter Personal Protective Equipment; Water Supply; Fire Department Communications; Fire Behavior; Building Construction (JJC Dual Credit course FSCI 103, Building Construction for Fire Protection, 3 credits); Portable Fire Extinguishers; Ground Ladders; Fire Control; Hazardous Materials Awareness; the Incident Command System; Work Ethic; and Human Relations.

College credits are earned during the program through Joliet Junior College as noted.

FIRE SCIENCE II

Grade 12

2 Sem. 4 Credits

Prerequisite: Fire Science I, with a C grade or better

The Fire Science II course is designed to provide a solid foundation of knowledge and skills to prepare the fire science student for entry into a State approved firefighter certification program and/or a college or university Fire Technology degree program. It is, further, intended to prepare the student for the annual Illinois Skills USA fire fighter competition.

The curriculum is based on the standards established by the Illinois State Board of Education, the Illinois State Fire Marshal's office, the National Fire Protection Association, the National Fire Academy, the Department of Transportation, the Department of Public Health, and the Fire and Emergency Services National Professional Development Model. Students will expand upon the knowledge and skills acquired during the Fire Science I program and gain technical proficiency through hands-on application and repetitive drills.

This advanced course of study will include the following domains: Ropes & Knots; Fire Control; Loss Control; Ventilation; Protecting Fire Scene Evidence; Fire Prevention & Public Education (JJC Dual Credit course FSCI 102, Fire Prevention, 3 credits); Rescue & Extrication; Forcible Entry; Fire Detection, Alarm, and Suppression Systems; Basic Prehospital Emergency Medical Care (JJC Dual Credit course EMS 101, First Responder, 4 credits); Hazardous Materials Operations; Firefighter Safety & Health; Incident Command; and Employability Skills. This course emphasizes skill development in the operation of firefighting tools and equipment in order to develop psychomotor skills (Job Performance Requirements) and physical strength and endurance.

The course will include first-hand experience with the typical employment selection process. Students will take a series of mock entry-level skills assessment tests, written exams, and oral interviews. Students will be assessed on their knowledge, skill and ability, appearance and dress, attitude and behavior, and overall comfort level with the typical assessment instruments utilized by the industry during the firefighter selection process.

College credits are earned during the program through Joliet Junior College as noted.

FOUNDATIONS OF TEACHING

Grade 11-12 2 Sem. 4 Credits Prerequisite: None

First year students will receive an introduction to child development principles, developmentally appropriate learning environments, curriculum development, health, safety, and nutrition in regards to early childhood education. Students are also exposed to special education topics such as: IEPs, disabilities in the classroom, RTI, and inclusion. While enrolled in Early Childhood, the students will begin the process of learning the importance of lesson plans and how to create lesson plans for the different curriculum areas found in the early childhood setting. The students will be offered an off-campus clinical rotation in their home-school community after the first 7-8 weeks. This clinical experience*, in conjunction with our class time, will be three days a week and provide hands-on training during the course of the school year. At the conclusion of the year, the students that meet the requirements will be awarded a Level 1 certification through INCCRRA/Illinois Gateways to Opportunity

*Students must have a current physical, 2-part TB skin test, and reliable transportation

ADVANCED TEACHING METHODS

Grade 12 2 Sem. 4 Credits Prerequisite: Successful completion of Foundations of Teaching with a C grade or better.

The Early Childhood II program is available to those returning seniors, who are in good standing, who wish to continue exploring the components of early childhood education. Students will gain knowledge into different theories, theorists, and the philosophies that are vital to early childhood. Additional topics that are present in Early Childhood II include: child guidance and observations, parent communication, diversity in the classroom, different assessment tools available, and creating their own mission statement. Lesson plan development is continued in the second year with the addition of state standards, common-core, and edTPA. The students gain insight into different career options such as: occupational therapist, speech pathologist, special education teacher, and early childhood education teacher. The importance of attendance, dress-code, positive attitude, and ethics are still stressed as the students complete

off-campus clinicals throughout the year. Students* are given the ability to participate in an off-campus experience in the student's home community. At the conclusion of the second year, the students will have composed an on-line professional portfolio.

*Students must have current physical and reliable transportation.

Wilco Area Career Center

HEAVY EQUIPMENT TECHNOLOGY

GRADE: 12

2 Sem. 4 Credits

Prerequisite: Acceptance into the program.

This program is designed to train students for careers as heavy equipment mechanics. Heavy equipment includes equipment such as cranes, bulldozers, front-end loaders, rollers, backhoes, and hoists. Emphasis will be on the fundamentals as it relates to diesel engines and fuel systems used in heavy equipment. This program will introduce students to units of measurement, electron theory, wiring diagrams, schematics and symbols, basic principles of hydraulics, basic engine components, intake and exhaust systems, basic principles of hydraulics, basic engine components, intake and exhaust systems, introduction of welding and powertrain functions. Students must have steel toed boots and purchase program shirts at an estimated cost of \$43.50. College credits are earned during the program through Joliet Junior College. Disclaimer – Dual credit is subject to change based upon revisions made from Joliet Junior College. GAVC has no control over this entity.

This off-campus class is available through an application process only. Students will be drug-tested and must meet minimum requirements. The class is located at ASIP-Local 150 in Wilmington. Students must provide their own transportation for this program.