OHIO COMMUNITY HIGH SCHOOL

Course Catalog

2026-2027



103 MEMORIAL STREET

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Registration Procedure

This course catalog lists course information and graduation requirements for Ohio Community High School. Students, parents, and the counselor will use this document to create a rigorous academic program for each student that ensures graduation requirements are met, college/continued study entrance requirements are met, and courses are selected that are appropriate to student abilities and interests.

Students should use this catalog to find courses offered at Ohio Community High School, and work with their parents and the counselor to create a preliminary four-year course of study that fulfills graduation requirements. This plan will be reviewed annually with the school counselor.

Course Selection

Following the sequencing listed in the course descriptions will ensure proper preparedness for advanced coursework and include state required and possible elective course offerings. Not all courses will be available for student selection, course selection is dependent upon availability of instructors. Study halls and support periods are designed to allow students an opportunity to complete out of class assignments and to make thorough preparations for class so that their achievement may be representative of their best efforts. High School students are limited to 1 study hall per semester, unless prior approval is given by administration. Use the Career Cluster Programs of Study to help select courses for preparation for career goals. These Programs of Study are specific to courses at Ohio and serve as guides for core and elective courses to take in high school. Any student who fails a semester of a required class will be required to repeat it. Students who fail an elective course may choose to repeat it.

Credits and Classification

Students are classified according to the following earned credits:

- Freshmen: 0 - 5.5 credits
- Sophomores: 6 - 11.5 credits
- Juniors: 12 - 17.5 credits
- Seniors: 18 credits and above

Graduation Requirements

Credit for completed coursework is applied to a student's record at the end of a semester. Unless otherwise noted, half-credits are awarded for courses successfully completed each semester. Diplomas are awarded after the completion of at least 24 semester credits with certain credits being earned in the following subject/ course areas:

ENGLISH…… 4.0
MATH……..…...3.0
SCIENCE…… 2.0
SOCIAL SCIENCE……2.0
CONSUMER EDUCATION…….0.5
PHYSICAL EDUCATION/DRIVERS EDUCATION/HEALTH……..4.0
FINE ARTS OR CAREER EDUCATION…… 2.0
ELECTIVES…… 6.5
ADDITIONAL GRADUATION REQUIREMENTS

- ACT EXAM Completion: junior year
- Pre ACT exam: freshman and sophomore year
- Pass US & IL Constitution Exam
- FAFSA Completion

TOTAL CREDITS NEEDED FOR GRADUATION 24

ENGLISH
2.0 credits must include state required writing-intensive requirements including intensive instruction in computer literacy.

MATH
1.0 Algebra I content
1.0 Geometry content
1.0 Mathematics Elective

SCIENCE
2.0 credits of non-specific course sequences or content
- 2.0 credits must include laboratory components

SOCIAL SCIENCE
1.0 US History credit
0.5 Civics credit
0.5 Social Science elective
- Students are required to receive a passing score on the US & IL constitution exam & Flag exam prior to graduation.

CONSUMER EDUCATION
Consumer Education credit can be obtained by taking and passing:
- Consumer Education proficiency exam
- Consumer Education course (.5 credit)
- Intro to Business (.5) credit and Business Economics (.5 credit)
- Agricultural Business Management (.5 credit)
- Consumer Math (1.0 credit)

PHYSICAL EDUCATION
Students are required to enroll in PE every semester they are in school; the equivalence of 1 semester of PE will include Health. Juniors and seniors may be exempt from physical education if they qualify under the Board of Education guidelines. Students can fulfill the Driver's Education requirement by enrolling in the summer Driver's Education course, or through an accredited private Driver's Education program. Those students who complete Driver's Education through a private program must provide a certificate of completion.

FINE ARTS or CAREER EDUCATION
Students can fulfill this requirement by taking courses from the Foreign Language, Music, Art or courses at the Whiteside Area Career Center (WACC). Students must take 2.0 years of courses from the same department to meet some college and university requirements. Successful completion of courses will range from .25 - 1.0 semester credit hours awarded per course.

Free Application for Federal Student Aid (FAFSA)

Students must file a FAFSA with the U.S. Department of Education or, if applicable, an application for state financial aid or file a waiver with the school district.

Grading Scale and Grade Points

Grade point averages are calculated at the end of each semester. Cumulative GPAs are used on college applications and for class rank. Only semester GPAs are used for Honor Roll and High Honor Roll. Grades are unweighted.

A- 90-100
B- 80-89
C- 70-79
D- 60-69
F- 0-59

Sauk Impact Program

IMPACT/COMMUNITY SERVICE

By September 1st of their freshman year, students are **highly encouraged** to sign up for the Sauk Valley Community College IMPACT program. SVCC's **earned-**tuition program provides eligible students, who graduate within the Sauk district, the opportunity to **earn** tuition and fees for up to three years at SVCC, or until they **earn** their certificate or degree—whichever comes first.

To be eligible for earned Sauk tuition and fees, students are required to:

- Progress with the rest of their class (graduate on time or early)
- Participate in 100 hours of community service before high school graduation (25 hours per year)
- Graduate from a high school **or home school program** located within the SVCC district
- Apply for at least one other local/state/national scholarship
- Complete the FAFSA—if ineligible to apply for FAFSA—complete the FAFSA forecaster

Agriculture

Introduction to Agriculture

This class surveys a wide array of topics within the agricultural industry, exposing students to the many and varied types of agriculture and livestock career opportunities and to those in related fields (such as natural resources). These courses serve to introduce students to the agricultural field, providing them an opportunity to identify an area for continued study or to determine that their interest lies elsewhere. Developing communication skills, business principles, and leadership skills are focused on.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Agricultural Business Management

This course provides students with the information and skills necessary for success in agribusiness and in operating entrepreneurial ventures in the agricultural industry. It covers topics such as economic principles, budgeting, risk management, finance, business law, marketing and promotion strategies, insurance, and resource management. Other topics include developing a business plan, employee/employer relations, problem-solving and decision making, commodities, and building leadership skills. It also incorporates a survey of the careers within the agricultural industry. ***Meets Consumer Education graduation requirement.***

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Agricultural Marketing

In this course, students are introduced to the principles of marketing. Students will be guided through the development of a marketing plan. The focus will be on product and distribution, price and promotion, and managing risks, finances, and information. Topics will include economics, functions of marketing, international marketing, computers, ethics, and legal issues.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Agricultural Animal Science

This class develops students' understanding of the livestock (beef, dairy, sheep, goats, and swine), poultry, and large (equine) animal industry. Topics of instruction include scientific investigations, genetics, animal anatomy and physiology, animal nutrition, animal reproduction, animal health, and meat science. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Art

Art 1

This class covers elements and principles of design, line, shape, form, space, color, and texture. Students will use various techniques such as drawing, painting, still life, life drawing , and portrait drawing. Students will use a variety of media such as watercolor, acrylics, pastels, pencil, pen and ink, scratchboard, as well as 3D media including clay, paper, cardboard, metal and plastics.
Students will apply the studio habits of mind and artistic behaviors to develop their artistic mindset and skills.

Grade Level: 9, 10, 11, 12
Credit: 1
Length: Year
Prerequisite: None

Art 2

This course builds on the knowledge and skills acquired in Art 1. Students are expected to be self-directed in their studies and studio work. Students will apply the studio habits of mind and artistic behaviors to develop their artistic mindset and skills while working with a variety of media.

Grade Level: 10, 11, 12
Credit: 1
Length: Year
Prerequisite: Art 1 or Teacher Recommendation

Art 3

This course is a continuation of Art 1 and Art 2. Students are expected to be self-directed in their studies and studio work. Students will apply the studio habits of mind and artistic behaviors to develop their artistic mindset and skills while working with a variety of media.

Grade Level: 11, 12
Credit: 1
Length: Year
Prerequisite: Art 1 & Art 2 or Teacher Recommendation

Art 4

This course is a continuation of Art 1, Art 2, and Art 3. Students are expected to be self-directed in their studies and studio work. Students will apply the studio habits of mind and artistic behaviors to develop their artistic mindset and skills while working with a variety of media. Grade Level: 12

Grade Level: 12
Credit: 1
Length: Year
Prerequisite: Art 1, Art 2 & Art 3 or Teacher Recommendation

Photojournalism

Photojournalism courses expose students to the manner in which photography is used to convey information and experiences. Typically coordinated with production of the school newspaper, yearbook, or other media product, photojournalism courses provide students with the opportunity to improve their photo composition and digital technology skills, and to apply their art to journalistic endeavors.

Grade Level 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Business

Accounting I

Accounting I is a course that assists students pursuing a career in business, marketing, and management. This course includes planned learning experiences that develop initial and basic skills used in systematically computing, classifying, recording, verifying and maintaining numerical data involved in financial and product control records including the paying and receiving of money. Instruction includes information on keeping financial records, summarizing them for convenient interpretation, and analyzing them to provide assistance to management for decision making. Accounting computer applications should be integrated throughout the course where applicable. In addition to stressing basic fundamentals and terminology of accounting, instruction should provide initial understanding of the preparation of budgets and financial reports, operation of related business machines and equipment, and career opportunities in the accounting field. Processing employee benefits may also be included.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Accounting II

Accounting II is a course that builds upon the foundation established in Accounting I. This course is planned to help students to develop deeper knowledge of the principles of accounting with more emphasis being placed on financial statements and accounting records. It is a study of previously learned principles as they apply to the more complicated types of business organizations: partnerships, corporations, branches, etc. The students may become familiar with such specialized fields of accounting as cost accounting, tax accounting, payroll accounting, and others. Some students may choose to do specialized accounting computer applications, and others may elect payroll clerk, data processing computer applications. Simulated business conditions may be provided through the use of practice sets. Skills are developed in the entry, retrieval, and statistical analysis of business data using computers for accounting business applications.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Banking and Finance

Banking and Finance courses provide students with an overview of the American monetary and banking system as well as types of financial institutions and the services and products that they offer. Course content may include government regulations; checking, savings, and money market accounts; loans; investments; and negotiable instruments.

Grade Level: 9, 10, 11,12
Credit: ½
Length: Semester
Prerequisite: None

Consumer Education

This course will prepare students to be successful consumers in our society. Topics include: how to complete income tax forms, how to open a checking account and keep records, how to open a savings account and use bank services, how to calculate interest, how to apply for and obtain credit and loans, how to interpret loan contracts, how to set up a budget and keep records, how to compare investments, how to interpret and compare major types of insurance, how to shop for and purchase a car, how to shop for housing, and how to protect our rights as consumers. ***Meets Consumer Education graduation requirement.***

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Introduction to Business

This course acquaints students with management opportunities and effective human relations. It provides students with the skills to perform planning, staffing, financing, and controlling functions within a business. In addition, it provides a macro-level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course also emphasizes problem-based, real-world applications of business concepts and uses accounting concepts to formulate, analyze, and evaluate business decisions. ***Meets Consumer Education graduation requirement when taken with Business Economics.***

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Business Economics

Business Economics courses integrate economic principles (such as free market economy, consumerism, and the role of the U.S. government within the economic system) with entrepreneurship/business concepts (such as marketing principles, business law, and risk). ***Meets Consumer Education graduation requirement when taken with Introductory Business.***

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Business Communications

Business Communications courses help students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communicating nonverbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and real world application.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Business Law

Business Law courses emphasize legal concepts that are relevant to business and business organizations. Topics examined in these courses typically include contracts, buying/renting property, installment buying, insurance, buyer/seller relationships, negotiable instruments, employment, taxes, insurance, commercial papers, legal organizational structures, and consumer liabilities. (Available SY 2011-.)

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Business Principles and Management

Business Principles and Management courses are designed to provide students with an understanding of the American business system, its organizations, and its management. These courses examine the various leadership and management styles of a variety of successful business organizations, large or small.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Business Management

Business Management courses acquaint students with management opportunities and effective human relations. These courses provide students with the skills to perform planning, staffing, financing, and controlling functions within a business. In addition, they usually provide a macro level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course may also emphasize problem-based, real-world applications of business concepts and use accounting concepts to formulate, analyze, and evaluate business decisions.

Grade Level: 9,1 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Business and Technology Concepts CTE

This orientation-level course will provide an overview of all aspects of business marketing and management, including the concepts, functions, and skills required for meeting the challenges of operating a business in a global economy. Topics covered will include the various forms of business ownership, including entrepreneurship, as well as the basic functional areas of business (finance, management, marketing, administration and production). Students will be introduced to a wide range of careers in fields such as accounting, financial services, information technology, marketing, and management. Emphasis will be placed on using the computer while studying applications in these careers along with communication skills (thinking, listening, composing, revising, editing, and speaking), math and problem solving. Business ethics as well as other workplace skills will be taught and integrated within this course. This course is not intended to meet the consumer education requirement, but rather to provide preparation for the skill level - 12 Business and Marketing 271 courses that make up the Business, Marketing and Management occupations programs.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Product Oriented Marketing

Product-Oriented Marketing courses offer students insight into the processes affecting the flow of goods and services from the producer to the consumer. Course content ranges considerably as general marketing principles such as purchasing, distribution, and sales are covered; however, a major emphasis is often placed on kinds of markets; market identification; product planning, packaging, and pricing; and business management.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Advanced Marketing

Comprehensive courses focus on the wide range of factors that influence the flow of goods and services from the producer to the consumer. Topics may include (but are not limited to) market research, the purchasing process, distribution systems, warehouse and inventory control, salesmanship, sales promotions, shoplifting and theft control, business management, and entrepreneurship. Human relations, computers, and economics are often covered as well.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Computer Technology

Computer Tech I

Students will reinforce their keyboarding skills and develop formatting and document processing skills. Touch keyboarding techniques are stressed for entering alphabetic, numeric, and symbolic information on a computer. Formatting includes arranging, placing, and spacing documents such as letters, memos, reports, tables, etc. Document processing combines keyboarding and formatting through job-related tasks, decision making, application of language skills, proofreading and correcting, and becoming an efficient worker. Students will also develop a comprehensive understanding of Microsoft Word (word processing). Students will learn to create, format and edit documents through a variety of activities and exercises.

Grade Level: 9
Credit: ½
Length: 1st Semester
Prerequisite: None

Computer Tech II

This course will help students develop a comprehensive understanding of computers. Computer Tech II provides a thorough analysis of hardware, software, operating systems, and the role computers play in social and professional settings. This course provides students with theoretical and practical knowledge of Windows 2010 applications (i.e. Word, PowerPoint, Excel, and Access.

Grade Level: 9
Credit: ½
Length: 2nd Semester
Prerequisite: Computer Tech I

Computer Presentation and Database (Computer Tech III)

This course will help students develop a comprehensive understanding of Microsoft PowerPoint (presentation tool) and Microsoft Access (database). PowerPoint combines text, clip art, drawing objects, charts, tables, and other objects to create visual presentations. Access is used for organizing and sorting information. Students will learn the most commonly used features of PowerPoint and Access through computer applications and exercises. A variety of activities/exercises will be completed to provide students with the instruction necessary to become a knowledgeable user of this popular presentation and database software.

Grade Level: 10
Credit: ½
Length: Semester
Prerequisite: Computer Tech I

Coding

Computer Concepts and Software Applications is an orientation-level course designed to develop awareness and understanding of application software and equipment used by employees to perform tasks in business, marketing and management. Students will apply problem-solving skills to hands-on, real-life situations using a variety of software applications, such as word processing, spreadsheets, database management, presentation software, and desktop publishing. Students will explore topics related to computer concepts, operating systems, telecommunications and emerging technologies. The development of employability skills, as well as transition skills, will be included in the course as well as an understanding of the ethical considerations that arise in using information processing equipment and gaining access to available databases.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Foundations of Technology

Foundations of Technology employs teaching/learning strategies that enable students to build their own understanding of new ideas. It is designed to engage students in exploring and deepening their understanding of "big ideas" regarding technology and apply technological processes to solve real problems and develop knowledge and skills to design, modify, use and apply technology in the following areas: engineering design, manufacturing technologies, construction technologies, energy & power, information & communication technologies and emerging technologies.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Driver Education

Driver Education

Driver Education course consists of all learning experiences provided by the school for the purpose of helping students learn to use motor vehicles safely and efficiently. This course requires 30 hours of classroom and 6 hours of behind the wheel instruction. Due to the nature of this course absences will result in removal from the class.

Grade Level: 10
Credit: ½
Length: Summer
Prerequisite: None

English

English I

English I *emphasizes a better understanding of analysis and whole class discussion. An emphasis on vocabulary and composition skills will be an ongoing part of the course. The course includes studies of various literary genres such as short story, poetry, novel, drama, and non-fiction. The development of critical reading and writing skills is a major emphasis of the course. Students will use* ***digital literacy skills and knowledge of technology,*** *including the internet, to produce and publish writing as well as to interact and collaborate with others and must demonstrate sufficient command of keyboarding skills to type a five-paragraph essay in one sitting.*

Grade Level: 9
Credit: 1
Length: Year
Prerequisite: None

English II/Speech

English II *consists of one semester of speech and one semester of World Literature. Emphasis in both semesters will be placed on vocabulary development, composition skills, and critical reading and writing skills.* ***Speech*** *features a variety of performance activities which enable students to hone to mastery their communication skills. The course focuses on public speaking, listening and evaluation skills, persuasive techniques, and speech writing skills. Students give a variety of speech types: Demonstrative, Informative, Impromptu, and Persuasive are a few of the evaluated speeches each student must complete. Students will make strategic* ***use of digital media*** *(e.g., textual, graphical, audio, visual, and interactive elements) in speech presentations to enhance understanding of findings, reasoning, and evidence and to add interest.*

Grade Level: 10
Credit: 1
Length: Year
Prerequisite: English I

English III

This course continues emphasis on composition skills and literary analysis through a focus on the American Experience. All literary study is supported by composition. A large focus will be applied to Rhetorical Analysis in preparation to better understand the process of argumentation in order that the students will be able to effectively communicate the authority of their own arguments in a final Research Paper. Students will use ***media literacy skills****, civic-developed skills, and strategies to evaluate digital tools and resources to research a topic, organize information, and share their findings with others.*

Grade Level: 11
Credit: 1
Length: Year
Prerequisite: English I, English II

English IV

English IV consists of a survey of technical writing ***or*** *classic British Literature. A requirement of the course is a final Research Paper. For the option of British literature, authors from 1500 to the present will be explored. Genres covered will include poetry, drama, novels, short stories, and expository literature. A heavy emphasis will be placed on compositions including critical analysis essays. For the Technical Writing option, resumes, cover letters, memos, emails and workfield-related documents will be of major focus. No matter the course options, a final Research Paper provides students with the opportunity to combine their literary analysis of the year's texts and the research writing process. Students will use* ***media literacy skills****, civic-developed skills, and strategies to evaluate digital tools and resources to research a topic, organize information, and share their findings with others.*

Grade Level: 12
Credit: 1
Length: Year
Prerequisite: English I, II, III

English Electives

Creative Writing

This course is designed for students who have previously demonstrated a mastery of writing skills and who wish to pursue an enhanced depth of understanding in writing description, short stories, poems, scripts, and one-act plays. Various works of literature will be read for the purpose of providing effective models for student writing. Students in the class will be asked to submit their work for public critique on a regular basis throughout this course. . Development of writing style and author's voice will be emphasized. This course is an intensive writing class.

Grade Level: 11, 12
Credit: 1/2
Length: Semester
Prerequisite: None

Novels

Over the course of a semester students will learn the history of the novel, read a broad range of novels from different genres, and write analytical responses to those novels. This course will provide students the opportunity to expand their knowledge of novel genres, to better engage in and sustain attention during extended reading sessions, and to respond analytically to fiction. Students will be required to journal about reading assignments, write essays, and create projects. This course is an intensive writing class.

Grade Level: 11, 12
Credit: 1/2
Length: Semester
Prerequisite: None

ENG 101- Composition I

This course develops awareness of the writing process; provides inventional, organizational, and editorial strategies; stresses the variety of uses for writing; and emphasizes critical skills in reading, thinking, and writing. ***Dual Credit offered through Sauk Valley Community College.*** *Students will use* ***media literacy skills,*** *civic-developed skills, and strategies to evaluate digital tools and resources to research a topic, organize information, and share their findings with others.*

Grade Level: 11, 12
Credit: ½
College Credit: 3 Semester Hours
Length: Semester
Prerequisite: Required placement score on approved English placement test

ENG 103- Composition II

An advanced course in essay writing with emphasis on formal research, ENG 103 serves to develop a proficiency in the collection and selection of data as applied to the completion of a formal research paper. In addition, students receive instruction in logic and reasoning, including the fundamentals of argumentative and persuasive writing. ***Dual Credit offered through Sauk Valley Community College.*** *Students will use* ***media literacy skills,*** *civic-developed skills, and strategies to evaluate digital tools and resources to research a topic, organize information, and share their findings with others.*

Grade Level: 11, 12
Credit: ½
College Credit: 3 Semester Hours
Length: Semester
Prerequisite: A grade of C or higher in ENG 101

Health/ Physical Education

Health

Health is a required course. Unit topics include Red Cross CPR, first aid, stress management, substance abuse, human sexuality, death education, and body systems. Students are encouraged to explore healthful lifestyles through class lecture, discussion, research projects, and media.

Grade Level: 9
Credit: ½
Length: Semester
Prerequisite: None

Physical Education

Physical Education is required of all high school students unless exempt according to state guidelines. The course provides daily physical activity as well as basic instruction in skills, rules, and team strategy.

Grade Level: 9, 10, 11, 12
Credit: 1
Length: Year
Prerequisite: None

Independent Study

Independent Study

Independent Study courses, typically organized as a mentorship with a teacher or outside professional, enable students to conduct investigations related to their field(s) of interest.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Integrative Learning

Career Internship (60 hours)

This course is designed for students looking for professional opportunities to explore career options and build on employability skills. Outcomes for students include developing practical skills, building professional networks, and gaining a deeper understanding of industry expectations. The course requires an internship application, a signed contract, and a learning plan which includes goals and objectives. Students work in collaboration with their school counselor and the Internship Coordinator. A letter grade is awarded based on internship attendance, weekly journals, the evaluation of written assignments, and a final presentation. Students are required to complete at least 60 hours at their internship location.

If the student is choosing to complete their internship at the site in which they currently are employed, there must be distinct differences in job descriptions and activities. Students are responsible for presenting themselves in a professional manner as they are representatives of Ohio High School and must maintain a good standing in the school and the community. Please note that placements are subject to denial based on availability and distance. Students should also consider their schedule and commitments to school activities/ athletics prior to applying.
A written recommendation signed by a teacher may be required. Attendance, academic record and personal motivation are key factors in the selection process.

Grade: 12
Credit: .5
Length: One Semester (Typically Spring of Senior Year)
Prerequisite: Must meet academic requirements

Senior Seminar

Senior Seminar is a course designed to prepare students for successful transitions to postsecondary education, training, military service, and careers. Through a combination of self-assessment, goal setting, research, and real-world application, students develop the academic, employability, financial literacy, and life skills necessary for success beyond high school. Students explore career pathways, college and workforce opportunities, financial planning, communication skills, workplace expectations, and civic responsibility. The course emphasizes critical thinking, problem-solving, collaboration, and professional skills through individual and group projects, presentations, and experiential learning activities.

Grade: 12
Credit: ½ (¼ per semester)
Length: Year
Prerequisite: None

Mathematics

Algebra I

Algebra I uses the math skills that the students learned in grade school to explore the world of higher mathematics. The students learn new vocabulary, new concepts and different ways to use their knowledge. They will learn addition, subtraction, multiplication, and division models for solving linear equations, work with exponents, and add, subtract,

multiply, and divide radicals, polynomials, systems of linear equations, and rational equations. Students will incorporate the use of hand held calculators, spreadsheets, and online graphing calculators (ex. Desmos) as appropriate for each concept.

Grade Level: 9
Credit: 1
Length: Year
Prerequisite: None

Geometry

Geometry relates mathematics to the physical world and is used to design. Geometry also encourages the development of logical thinking and reasoning skills. The student will study polygons, circles, lines, and properties that apply to them. Other topics covered will include: measurement formulas, three-dimensional figures, surface area, volume, coordinate geometry, and similarity. Students will incorporate the use of hand held calculators, spreadsheets, online graphing calculators (ex. Desmos), and dynamic geometry software (ex. Geogebra) as appropriate for each concept.

Grade Level: 10
Credit: 1
Length: Year
Prerequisite: Algebra I

Honors Geometry

This class will cover the same material of standard Geometry with additional material presented at the discretion of the teacher and at a faster pace. Students designated to this course must have teacher recommendation or obtain a "meets or exceed proficiency" on the PSAT 9th grade math section.

Grade Level: 9, 10
Credit: 1 credit
Length: Year
Prerequisite: Algebra I

Algebra II

Algebra II is an extension of Algebra I. There is a review of the basic algebra skills and vocabulary. Then, these skills are enriched and added to so that the student can explore more algebra skills that will lead them into advanced mathematics. Topics covered will include: variations & graphs, arithmetic & geometric sequences, matrices, system of equations, & trig. Students will incorporate the use of hand held calculators, spreadsheets, and online graphing calculators (ex. Desmos) as appropriate for each concept.

Grade Level: 10, 11, 12
Credit: 1
Length: Year
Prerequisite: Algebra I with a grade of C or better

Business Math/ Consumer Math

Business Math assists students in the use of mathematics in their personal and business lives. Students will learn terminology, apply mathematical skills, and use formulas to solve a variety of business and personal finance problems. Students will incorporate the use of hand held calculators, spreadsheets, and online graphing calculators (ex. Desmos) as appropriate for each concept.

Grade Level: 11, 12
Credit: ½ - 1
Length: Semester or Year
Prerequisite: None

Occupational Applied Math

Occupationally Applied Math courses reinforce general math skills, extend these skills to include some pre-algebra and algebra topics, and use these skills primarily in occupational applications. Course topics typically include rational numbers, measurement, basic statistics, ratio and proportion, basic geometry, formulas, and simple equations. Students will incorporate the use of hand held calculators, spreadsheets, and online graphing calculators (ex. Desmos) as appropriate for each concept.

Grade Level: 9, 10,11, 12
Credit: ½
Length: Semester
Prerequisite: None

Pre-Calculus

The purpose of this class is to provide the college-bound student with an introduction to precalculus. Pre-Calculus mathematics deals mainly with infinite and continuous processes. Its subject matter includes functions, coordinate systems, trigonometry, vectors, limits, and sequences and series. Students will incorporate the use of hand held calculators, spreadsheets, and online graphing calculators (ex. Desmos) as appropriate for each concept.

Grade Level: 11, 12
Credit: 1
Length: Year
Prerequisite: Algebra I, Algebra II, Geometry with grades of C or better

MAT 078 - Prep Math for Non Stem Majors

This course is to prepare students for college-level liberal arts math, technical math, or general statistics courses through content that is relevant for non-STEM majors. Topics in this course incorporate real-life applications while teaching pre algebra, numerical, algebraic, geometric, and measurement concepts; along with an introduction to probability and statistics. ***Online course offered through Sauk Valley Community College. High school credit awarded, no college credit awarded.***

Grade Level: 11, 12
Credit: 1
Length: Year
Prerequisite: Algebra I

MAT 121 - College Algebra

This course assumes proficiency with material in MAT 080. Topics extended to the college level include: real numbers, exponents and radicals, polynomials and factoring, fractional expressions, equalities and inequalities, functions and their graphs, conic sections, and systems of equations and inequalities. New topics include: zeros of polynomial functions, rational functions, exponential and logarithmic functions, matrices and determinants, sequences, and the Binomial Theorem. This course requires a graphing calculator as the use of hand held calculators, spreadsheets, and online graphing calculators (ex. Desmos) will be incorporated as appropriate for each skill concept. ***Dual Credit offered through Sauk Valley Community College.***

Grade Level: 11, 12
Credit: ½
College Credit: 4 Semester Hours
Length: Semester
Prerequisite: Two years of high school Algebra and Geometry with grades of C or higher and appropriate placement score.

MAT 122 - Trigonometry

*This course consists of an elementary survey of trigonometry and its applications. Topics include a review of prerequisite topics, radian measure and the unit circle, trigonometric functions and their graphs, and inverse trigonometric functions. Also included are trigonometric identities and equations, the solution of right and oblique triangles, vectors, and a review of exponential and logarithmic functions and their applications. Students will incorporate the use of hand held calculators, spreadsheets, online graphing calculators (ex. Desmos), and dynamic geometric software (ex. Geogebra) as appropriate for each concept.****Dual Credit offered through Sauk Valley Community College.***

Grade Level: 11, 12
Credit: ½
College Credit: 3 Semester Hours
Length: Semester
Prerequisite: MAT 121 with a grade of C or higher

MAT 240 - Elementary Statistics

An introduction to basic concepts in statistical methods including measures of central tendency, measures of dispersion, probability, theoretical and empirical distribution, estimation, tests of hypotheses, linear regression and correlation.Students will incorporate the use of hand held calculators, spreadsheets, and online graphing calculators (ex. Desmos) as appropriate for each concept. ***Dual Credit offered through Sauk Valley Community College.***

Grade Level: 12
Credit: ½
College Credit: 3 Semester Hours
Length: Semester
Prerequisite: Two years of high school Alg & Geom with grades of C or higher required.

Music

Band

Band gives the students an opportunity to continue the study of a musical instrument, and to extend the experience of ensemble playing while mastering new skill levels in these areas. Band includes Concert Band, Pep Band, and Marching Band.

Grade Level: 9, 10, 11, 12
Credit: ¼ or ½ per semester (students who take band 5 days per week will receive ½ credit per semester)
Length: Year
Prerequisite: None

Chorus

Choir develops a student's knowledge and appreciation of music through choral performance. Students learn technical skills and develop aesthetic values that will contribute to a lifetime of music enjoyment and appreciation.

Grade Level: 9, 10, 11, 12
Credit: ¼ or ½ per semester (students who take chorus 5 days per week will receive ½ credit per semester)
Length: Year
Prerequisite: None

Guitar

Guitar courses provide students an introduction to, and refine the fundamentals of, music and guitar literature and techniques, such as strumming and chords and may offer instruction in more advanced techniques. These courses may include bass, ukulele and other plucked string instruments. Formal and informal performances are typically included as well as experiences in creating and responding to music.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Guitar 2/Music Theory

This course is for students who wish to continue to grow their guitar playing skills and incorporate music theory. Music Theory courses provide students with an understanding of the fundamentals of music and include the following topics: composition, arranging, analysis, aural development, and sight reading.

Grade Level: 9, 10, 11, 12
Credit: 1/2
Length: Semester
Prerequisite: Guitar

Science

Earth Science

This is a basic freshman course designed to cover four fields of science: geology, space, weather and climate, and how the oceans function. It will introduce students to basic concepts in each field. This course is designed to teach general skills related to scientific study. Each field of study will use the scientific method to develop laboratory experiments related to certain processes within these fields. Each student will be required to develop a science project related to one of the fields mentioned above.

Grade Level: 9
Credit: 1
Length: Year
Prerequisite: None
Lab: Yes

Biology

This course is designed to improve the students' knowledge of biological concepts. The characteristics of living things and the scientific method are reviewed, as well as the tools and techniques that biologists use. Cellular structure and function, cell reproduction and food/waste processing are covered. Basic chemistry is used to study the biochemistry of life. Genetics and inheritance are introduced. Students will complete projects and experiments relating to these topics. Each student will also be required to complete a one-semester science project that is related to Biology.

Grade Level: 10
Credit: 1
Length: Year
Prerequisite: None
Lab: Yes

Physical Science

This course is designed to improve the students' general knowledge of subjects underneath the topic of Physical Science. The course is divided into two major subjects: Physics and Chemistry. In units related to Physics, students will develop an

understanding of Measurements, Motion, Force, Work and Energy, Temperature and Heat, Sound Waves, Light Waves, Electricity and Magnesium, and the basic concept of the Atom and Nuclear Reactions. In units related to Chemistry, students will develop an understanding of Chemical Elements, Chemical Bonding, Chemical Reactions, Organic Chemistry, and Place and Time.

Grade Level: 11, 12
Credit: 1
Length: Year
Prerequisite: None
Lab: Yes

Chemistry

This course is designed for college bound students. Students will use a variety of lab materials to study matter and its changes. Atomic Theory, elements and their properties, formula writing, balancing equations, stoichiometry, concentration of solutions, gas laws, equilibrium, reaction tendencies and metric measurements will be studied. This course is organic in nature. Students will be required to complete two semester long projects that are related to chemistry.
Grade Level: 11, 12
Credit: 1
Length: Year
Prerequisite: 2 Years of Science
Lab: Yes

Physics

This course is designed for the college bound student. Students will use toys and simple materials to study the basics of kinematics (motion); dynamics (how forces alter motion); work and energy; wave phenomena; electricity; magnetism; and heat and internal energy. The students will do extensive problem solving as well as learn real life application of the material covered. Students will also complete two semester long projects that are related to physics.

Grade Level: 11, 12
Credit: 1
Length: Year
Prerequisite: Algebra II and Geometry (May take Algebra II concurrently with Physics)
Lab: Yes

Anatomy/Basic Emergency Response

This course presents an in-depth study of the human body and biological system. Students study such topics as anatomical terminology, cells, and tissues and typically explore functional systems such as skeletal, muscular, circulatory,

respiratory, digestive, reproductive, and nervous systems. A special emphasis will be placed on the knowledge and skills needed in medical emergencies.

Grade Level: 11, 12
Credit: ½
Length: Year
Prerequisite: Biology

Application of Agriculture Science

Applications of Agriculture is a science elective that explores the scientific principles and technological innovations behind modern agriculture. This interdisciplinary course bridges biology, chemistry, environmental science, and engineering as students investigate how food, fiber and fuel are produced sustainably. Through hands-on projects, labs, case studies and field experiences, students will learn about plant and animal systems, soil science, biotechnology, sustainable practices and the role of agriculture in global and local ecosystems.

Grade Level: 11, 12
Credit: 1
Length: Year
Prerequisite: None

Fitness & Nutrition

This course focuses on the examination of individual nutrients; their structure and function in the human body; nutrient composition of food; and selection of food to meet nutrient needs, maintain health and provide satisfaction. Topics covered include digestion, absorption, and metabolism of carbohydrates, lipids, and proteins; vitamins and minerals; physical activity; nutritional needs throughout the life cycle; and evaluation of nutritional claims. Application of nutrition and physical fitness is included in this course.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Fitness & Physiology

This course examines all major systems, tissues, and muscle groups in the human body to help students understand how these systems interact and their role in maintaining homeostasis. These courses may also cover such topics as cell structure and function, metabolism, and the human life cycle. Application of physiology as it relates to fitness is included in this course.

Grade Level: 9, 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

Forensics

This course involves the application of biological, chemical, and physical science principles to data and physical evidence related to evidence collection and analysis. The courses focus on the application of scientific knowledge and scientific

principles to collect, preserve, and analyze evidence in a laboratory setting. Topics may include but are not limited to entomology, forensic anthropology, serology, and fingerprinting.

Grade Level: 10, 11, 12
Credit: ½
Length: Semester
Prerequisite: None

BIO 105 - Principles of Biology

A survey of the basic principles of biology including: nature of science, cells, structure and function of organisms, genetics, evolution and ecology. This course is designed to satisfy the biology requirement for general education and vocation-occupational curriculum majors. It provides a basis for understanding principles common to all major fields of biology for the science or professional major. ***Dual Credit offered through Sauk Valley Community College.***

Grade Level: 11, 12
Credit: ½
College Credit: 5 Semester Hours
Length: Semester
Prerequisite: Biology

BIO 108- Introduction to Human Anatomy and Physiology

A study of introductory chemistry, cells, tissues, and structure and function of organ systems including: digestive, respiratory, reproductive, urogenital, cardiovascular-lymphatic, musculoskeletal, nervous, immune, and endocrine systems. ***Dual Credit offered through Sauk Valley Community College.***

Grade Level: 11, 12
Credit: ½
College Credit: 4 Semester Hours
Length: Semester
Prerequisite: BIO 105

Social Science

Contemporary U.S. Issues

Contemporary U.S. Issues courses study the political, economic, and social issues facing the United States, with or without an emphasis on state and local issues. These courses may focus on current issues or may examine selected issues that span throughout the 20th century to the present.

Grade: 11, 12
Credit: ½ (¼ per semester)
Length: Year
Prerequisite: U.S. History

World History

This course involves an explanation of today's world through the study of past events that shaped Western Civilization, the growth of technology, colonialism-past and present, the growth of nationalism, the drawing of national borders, the Cold War, and the new frontiers available to man. Specific Units will include the study of Ancient Greece, the Roman Empire, Medieval Europe, the Renaissance and Reformation, the Industrial Revolution, World War I, World War II, and the Cold War. This course uses a combination of a textbook and on-line format.

Grade Level: 9
Credit: 1
Length: Year
Prerequisite: None

Civics

Civics courses examine the general structure and functions of U.S. systems of government, the roles and responsibilities of citizens to participate in the political process, and the relationship of the individual to the law and legal system. These courses do not typically delve to the same degree of detail into constitutional principles or the role of political parties and interest groups as do comprehensive courses in U.S. Government.

Grade Level: 10
Credit: ½
Length: Semester
Prerequisite: None

World Geography

This course focuses on the study of how the world came to look the way it does. Students will be looking at specific locations, what makes a location unique, how similar places are combined, how people, goods, and ideas move from place to place, and the effect people have on their environment as well as how the environment affects people. Skills in reading maps, charts, and tables will be reviewed. Relevant current events in each location will be discussed. This course uses an on-line format, including an on-line textbook.

Grade Level: 10
Credit: ½
Length: Semester
Prerequisite: None

United States History

This course offers an in-depth study of United States history including coverage of political, social, economic, and diplomatic events. Specific areas of study will include Colonial and Revolutionary America, Young America, Expansion, Civil War, and Reconstruction, Industrial Transformation, and becoming a World Power.

Grade Level: 11
Credit: 1
Length: Year

HIS 221- American History to 1865

Students will examine the first interactions of Native American cultures, European conquerors, and enslaved Africans. They will compare the Spanish, French, and English experiences in North America, and explore the events in the English colonies that led to revolution and independence. They will examine the constitution issues, political clashes, and social changes of the Federalist, Jefferson and Jacksonian periods. Students will explore westward expansion, immigration in the north, and the southern slave economy. They will consider the events of the decade of crisis that led to civil war, and look closely at the war and its major consequences. ***This is a Dual Credit course offered through Sauk Valley Community College.***

Grade Level: 11, 12
Credit: ½
College Credit: 3 Semester Hours
Length: Semester

HIS 222- American History Since 1865

Students will examine American history from the Reconstruction Era to the present. They will gain an understanding of historical periods and events such as the Industrial Revolution, the Gilded Age, the Great Depression, the two World Wars, the Cold War, The Age of Affluence, and the Struggle for Racial and Gender Equality. ***This is a Dual Credit course offered through Sauk Valley Community College.***

Grade Level: 11, 12
Credit: ½
College Credit: 3 Semester Hours
Length: Semester

Spanish

Spanish I

Spanish I is the beginning of the study of the Spanish language and the people who speak it. This course includes a beginning study of Spanish vocabulary, grammar, reading, comprehension, written and aural – oral communication skills. Emphasis is placed on communication of basic needs. Students will also study Spanish and Hispanic people and culture.

Grade Level: 9, 10, 11, 12
Credit: 1
Length: Year
Prerequisite: None

Spanish II

Spanish II is an intermediate study of the Spanish language with more emphasis on grammar and communication skills. A study of Spanish-speaking people continues.

Grade Level: 9, 10, 11, 12
Credit: 1
Length: Year
Prerequisite: Spanish I with a grade of C or higher

Whiteside Area Career Center (WACC)

Ohio Junior and Senior students may choose to attend WACC and receive career and technical education. Transportation will be provided to WACC. With travel, students will be away from Ohio Community High School for three class periods.

Any student wishing to enroll at WACC must be registered at one of the sixteen member high schools.

Prerequisites: Several WACC courses list prerequisites that students must meet in order to enroll in the program.

Recommended Student Criteria: All WACC programs have required lab work that is a critical component of student learning and student assessment. A school wishing to enroll a student who does not meet the recommended criteria for a WACC program must participate in a scheduled meeting with WACC staff to discuss student accommodations prior to the student's enrollment.

Allied Health

One-year program offered to junior and senior students that are interested in pursuing a career in various medical fields.

First semester, students are in the classroom three days per week and at clinical sites two days per week. Students participate in up to three clinical sites throughout the school year. Clinical sites include, but are not limited to, hospitals, clinics, long-term care facilities, chiropractors, veterinary clinics, physical therapists, etc. Students can practice in different areas of the medical field, such as Maternal-Child Nursing, Geriatrics, Emergency Nursing, Radiology, Dental Medicine, Veterinary Science, and more. Second Semester, students will take a Phlebotomy Certification course. Students would complete the clinical portion of this class in a health care lab setting.

3 Dual Credits with SVCC: Medical Terminology (NRS116)

Potential Phlebotomy Certification

Prerequisites: Students will be required to participate in an internship two days per week for most of the year. Therefore, a student who enrolls in Allied Health **MUST** be able to transport him or herself to internship sites. Students must have updated immunizations, including a flu shot and TB test, and adhere to all clinical site requirements relative to COVID mitigation.

Grade Level: 11, 12
Credit: 1
Length: Semester

Automotive Technology

One or two-year program offered to junior and senior students. First year students will be building basic repair skills such as lubrication, brakes, engine tune up, suspension, fuel injection, computer controls, electrical systems, exhaust systems, and cooling. Second year students will learn differential operation, transmissions and clutches, engine diagnostics, heating and cooling systems, and qualifying students can participate in work-based learning at various job sites in order to gain real world work experiences while going to school.

Prerequisites: Students who enroll in Automotive Technology II will either participate in an internship two to three days per week, or will perform an internship at WACC in the WACC Automotive shop that will require working on customers' vehicles. Any student enrolled in Automotive Technology II must have a valid Illinois Driver's license.

Recommended Student Criteria: Students enrolled in Automotive Technology will be required to work in an automotive shop approximately 70% of the time while at WACC. Students should be able to lift both arms above his or her head, lift 40 pounds, and be able to lower him or herself to the ground to work under a vehicle.

Grade Level: 11, 12
Credit: 1
Length: Semester

Building & Construction Trades

One- or two-year program offered to junior and senior students. This course provides experiences related to the construction and maintenance of residential and/or commercial buildings and related fixtures. During the year, students will spend 85% of their time at a job site constructing or remodeling a residential house or commercial building. The other 15% of the time students will be in the classroom or shop. Instruction will include safety principles, proper order of procedures, problem solving, framing, plumbing, electrical, roofing, installing insulation, dry wall, concrete foundations and flatwork, landscaping, estimating materials, blueprint reading, siding, hanging doors, heating and air conditioning, and finish work. Second year students are provided the opportunity to advance their skills and leadership roles in the construction trades.

Recommended Student Criteria: Students enrolled in Building Trades will be involved in constructing or remodeling a house, and will perform work at the job site approximately 85% of the time while at WACC. Students should be able to climb an eight-foot step ladder, stand for an hour and thirty minutes, and have the strength and mobility to operate various power tools, such as nail guns, power saws, power drills, etc. Students will be working in cold weather and will need to have work boots and appropriate clothing.

Grade Level: 11, 12
Credit: 1
Length: Semester

CEO *(Creating Entrepreneurial Opportunities)*

One-year course offered to juniors and seniors. It covers a wide range of business topics, such as innovative thinking strategies, product development, competitive advantages, business structure, marketing, financial strategies, record keeping, financial statements, business plan writing. Entrepreneurial thinking (out-of-the box problem solving) is utilized throughout the course. 21st Century Workforce Skills, creative and critical thinking, collaboration, and communication are emphasized throughout the year. Students experience networking and business development firsthand. This course will take place in area businesses, and includes approximately 45 tours of local industry and 50 guest speakers from all areas of business.

3 Dual Credits with SVCC: BUS 260 Entrepreneurship Principles

Prerequisites: All students interested in enrolling in the WACC CEO class must complete an application available through his/her school counselor. Students will be selected by the CEO Advisory Board. Students who are selected to enroll in the CEO class must provide his or her own transportation to and from the various class meeting sites.

Grade Level: 11, 12
Credit: 1
Length: Semester

Cosmetology

One or two-year program available to juniors and seniors. Students will explore several aspects of cosmetology. The curriculum includes but is not limited to: theory and practice hours in hair, nails, skin, business basics and effective communication. This course takes place at Educators of Beauty. After completing this program, students will be considered for financial incentives that are available for students who chose to return to Educators of Beauty for their 12-month program following high school graduation.

Grade Level: 11, 12
Credit: 1
Length: Semester

Criminal Justice

One-year program designed to train students in various aspects of law enforcement, criminal justice, and the legal system. Students will receive instruction in skills needed for careers in associated fields; e.g. police officers, prosecuting and defense attorneys, probation and parole officers, crime scene investigators, correctional officers, etc. Major objectives of the program include: history of law enforcement, constitutional law, Illinois law, courts and the legal system, communication and dispatch operations, report writing and records, criminal investigations, search and seizure, community relations, patrol functions, traffic investigations, corrections, private security operations, criminology, and other related areas. Role play scenarios are used to enhance the student's learning experiences and provide an introduction to practical experiences which might be expected in the field.

Recommended Student Criteria: Students enrolled in the Criminal Justice program will participate in active, police scenarios. These scenarios include, but are not limited to the following physical activity; dragging a 150-pound person 10 feet, firing air guns, combat drills, and restraining potential suspects. Students should be able to pick up and carry objects weighing 25 pounds.

Grade Level: 11, 12
Credit: 1
Length: Semester

Culinary Arts

One- or two-year program open to juniors and seniors. Students explore Culinary Arts, preparing food for a large number of consumers, and catering. Occupational skills taught include care and use of commercial equipment, food preparation, customer service, management, nutrition, knife skills, safety and sanitation. Students in this program will receive weekly hands-on experience in the WACC commercial kitchen and provide food services for the public. Students will receive professional experience with cooking, baking, and pastry. Food Service Sanitation Management Certification will be given to 2nd year students.1st year students can earn a food handlers certification. 2nd year students have an opportunity to earn their food service sanitation management certification.

3 Dual Credits with Kishwaukee College: Intro to Hospitality HOS 103 (3 credits) ***Student Criteria:*** Students enrolled in Culinary Arts will be required to work in a commercial kitchen approximately 70% of the time. Students should be able to stand for an hour and forty-five minutes, lift 20 pounds, and have the ability to safely work around hot items, such as stoves, ovens and deep-fryers.

Grade Level: 11, 12
Credit: 1
Length: Semester

Digital Media Arts

One- or two-year program offered to juniors and seniors. This course is for students eager to explore the world of digital media and entrepreneurship. This hands-on program equips students with essential skills in graphic design, photography, video & sound production, digital drawing, motion graphics, animation, and interactive media design including gaming and website design. Coursework includes learning camera control, lighting, composition, file management, and image manipulation for digital photography, along with video editing techniques for film, TV, and web. Students will also dive into 2D, 3D, and practical animation styles, as well as web and app and website creation, with a focus on technical skills, visual storytelling, social impact, and ethics. Students will also be introduced to digital drawing techniques, composition tools, color theory and the effective use of social media. Second year students can choose to work on a capstone project, including projects for businesses or organizations. Qualifying WACC students may earn up to 12 college credits taking the Digital Media Arts class.

12 Dual Credits possible with SVCC: MCC 103-Digital Photography, MCC 105-Motion Graphics, MCC 236-Film and Video, MCC 238-Interactive Media Design (3 credits per course).

Grade Level: 11, 12
Credit: 1
Length: Semester

Early Childhood Education

One- or two-year program offered to junior and senior students. This course is designed to provide students interested in the development of children and a career involving children with a basic knowledge and understanding of children and their physical, mental, and emotional development. Broad areas of emphasis include: development of the child from conception through preschool age, the changes that take place in a mother's body, the family and its role, nutritional and emotional needs of the children, the role of parents, educational and creative activities for children, childhood illnesses, learning disabilities, and the exploration of human services and education-related careers. First year students will work on a weekly basis with children at our on-site laboratory called "Kiddie Kampus Preschool". Second year students will work with a cooperating teacher at a work-based learning site for three days a week throughout the school year. This work-based learning site could be a daycare center, home day care, preschool program, elementary school, or a location specific to a students' career interest. (i.e.: special education, speech teacher, reading specialist, social worker, child life specialist)

Students may earn a Level 1 Gateways Certificate upon successful completion of the course.

1 Dual Credits available with SVCC for 2nd year students – EDU105-Clinical Experience in Elementary Education

Recommended Student Criteria: Students enrolled in Early Childhood Education will be required to work in the WACC preschool with young children ages three to five years old. Students should be able to sit on the floor with the preschool children, have the dexterity to perform crafts with the children, and have the strength to restrain a child if needed for the

child's safety. (For example, prevent a child from running out the door.) Students should not have a history of violent behavior. Students should have the maturity and aptitude to work with young children. For example, a student who could not be recommended for a babysitting job should not be recommended for Early Childhood Education.

Grade Level: 11, 12
Credit: 1
Length: Semester

Health Occupations-CNA

One-year program offered to junior and senior students, who are at least 16 years of age and are interested in pursuing a career in the medical field. Upon completion of the Illinois Department of Public Health (IDPH) requirements, the students will be eligible to take the State Certified Nursing Assistant exam at the end of the school year. The students must meet the following criteria to be successful in Health Occupations: 1) Achieve a C or better each quarter throughout the year on the coursework, 2) Be competent at the 21 skills in the laboratory and at the clinical site, 3) Have excellent attendance throughout the school year, and 4) Pass the criminal background check 5) Pass an entrance exam. Students must have an outstanding work ethic, be self-motivated, and take initiative to be successful in Health Occupations. This is a state regulated program that requires students to spend 80 hours of theory and 40 hours of clinical time working with patients.

8 Dual Credits with SVCC: NRS101-Basic Nursing Assistant, NRS103-Advanced Nursing Assistant (4 credits per class)

Prerequisites: The Health Occupations program prepares students to become a Certified Nursing Assistant. Students must have updated immunizations including a flu shot and TB test, and adhere to all clinical site requirements. Student must be able to lift 50 pounds as it is a state mandated CNA skill to perform a two person lift on residents who are 119 pounds or less.

Grade Level: 11, 12
Credit: 1
Length: Semester

Welding, Machining and Manufacturing Technology

One- or two-year program offered to junior and senior students. Welding, machining, and CAD principles will be taught through hands-on experiences. Topics include:

- **Welding processes - (Stick, Oxyacetylene, Mig, Tig, Plasma cutting, and OAW cutting),**
- **Machine operations – (Lathes, Mills, Grinders, Shear, Pipe cutters, etc.)**
- **AutoCAD - Computer aided drafting program**
- **Blueprint reading**
- **Welding symbols**

The second year will provide the students with the opportunity to obtain advanced training on components of welding and metal fabrication.

- **Welding processes – (Structural welds, Pipe welds, Flux cored welding)**
- **Machine operations – (CNC and manual Machining)**
- **AutoCAD Fusion 3D Modeling**
- **Inventor - Computer aided drafting program**
- **Product design and development**
- **Internship at manufacturing site**

10 Dual Credits with SVCC: IND 106-Intro to Welding, IND 108-Intro to CAD, IND125-Maching and Manufacturing Processes, IND203-Advanced Machining and Manufacturing Processes (2 credits each for IND 106 and IND 108; 3

credits each for IND 125 and IND 203)

Recommended Student Criteria: Students enrolled in Welding and Manufacturing Technology will be required to work in a machine/welding shop approximately 75% of the time while at WACC. Students must be able to work in the confines of a welding booth (3'x 4'), have the ability to lift 40 pounds, must be able to stand for an hour and forty-five minutes, and must have the strength and mobility to operate machines such as lathes, grinders, and welding torches.

Prerequisites: Welding 2 students will be required to participate in an internship four days per week during second semester. Therefore, students that enroll in Welding 2 must be able to transport him or herself to various internship sites.

Grade Level: 11, 12
Credit: 1
Length: Semester

Programs of Study

Today's students will have multiple jobs and several different careers over their lifetime. Some will be working in careers that have yet to be created due to rapidly changing technologies. Equipping students with the knowledge and skills to develop a career plan as well as acquiring the academic and technical preparation to be successful is critically important. In the following pages, sequences of suggested high school courses related to career clusters are provided to help students choose courses aligned to future goals.

Programs of Study can help students identify Ohio courses that align with their career interests and make informed choices about course selection as part of their educational plan.

These Programs of Study are in no way meant to be an absolute plan that all students must follow. Rather, they reflect recommendations of potential four-year plan course choices that may help students connect high school learning with future career endeavors. Please note that required courses are shaded in gray. All other courses listed each year are suggestions of electives that would help prepare students interested in the particular career cluster. Students should not expect to take all electives suggested for each year. In addition, students should discuss all course plans with the counselor, teachers, and parents.

"Career Pathways." VALEES. Valley for Educational Employment System, 17 Nov. 2010. Web. 9 Dec. 2010. <http://valees.org/pathways1.html>. The Career Cluster icons are being used with permission of the States' Career Clusters Initiative, 2010, www.careerclusters.org

Program of Study for Agriculture, Food and Natural Resources Cluster

Grade	9	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	
Science	Earth Science	Biology	Chemistry or Physics	Chemistry or Physics
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster	Intro to Agriculture	Any of the Agricultural Courses	WACC Food Services I, Any of the Agricultural Courses	WACC Food Services II, Any other Agricultural Courses
Other Recommended Electives	Spanish I	Spanish II	Spanish III	Spanish IV
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree or Certificate:* Civil Engineering Tech Commercial Driver Farm Equipment Technician Heavy Equipment Operator/Technician Miner, Survey Technician Oil and Gas Well Drilling Crew Power Plant Operator		*Careers Requiring a Bachelor's Degree:* Agriculture Engineer Veterinarian Civil Engineer Dietician Environmental Consultant or Engineer Farmer, Botanist Food Inspector Global Information System Specialist	

Program of Study for Architecture and Construction Cluster

Grade	9	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	Pre-Calculus
Science	Earth Science	Biology	Chemistry or Physics, BIO 105, BIO 108	Chemistry or Physics, BIO 105, BIO 108
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster	Intro to Agriculture	Any of the Agricultural Courses	WACC Building Trades I, WACC Welding & Manufacturing I	WACC Building Trades II, WACC Welding & Manufacturing II
Other Recommended Electives	Spanish I	Spanish II	Spanish III	Spanish IV, Statistics
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree or Certificate:* Bricklayer/Stonemason Building Inspector Cabinetmaker Carpenter Construction Laborer Drafter Electrician Heating, Air Conditioning, Refrigerator Tech Pipefitter Plumber		*Careers Requiring at least a Bachelor's Degree:* Architect Civil Engineer Construction Manager Home Inspector Interior Designer Land Surveyor Landscape Architect Real Estate Agent Solar Energy Technician	

Program of Study for Arts, A/V Technology and Communications Cluster

Grade	9	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	
Science	Earth Science	Biology	Chemistry or Physics	Consumer Education
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster			WACC Digital Media Arts I	WACC Digital Media Arts II
Other Recommended Electives	Spanish I, Art	Spanish II, Art	Spanish III, Art	Spanish IV, Art
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree or Certificate:* Actor Announcer Artist Audio-Video Technician Broadcast Technician Computer Animator Fashion Designer Film and TV Crew Makeup Artist Photographer Recording Engineer Sound Technician Video Game Developer Website Designer		*Careers Requiring a Bachelor's Degree:* Actor Anthropologist and Archaeologist Art/Music Therapist Communications Specialist Curator/Gallery Manager Director and Coach Editor Fashion Designer Historian Journalist Musician/Music Teacher Photographer Website Designer Writer	

Program of Study for Business Management and Administration Cluster

Grade	9	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	Statistics
Science	Earth Science	Biology	Chemistry or Physics	Consumer Education
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster			WACC CEO	WACC CEO
Other Recommended Electives	Spanish I	Spanish II	Spanish III	Spanish IV
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree or Certificate:* Administrative Assistant Advertising Copywriter Bookkeeper Data Entry Clerk Event Planner Facilities Manager Medical Transcriptionist Office Manager OSHA/ADA Compliance Officer Sales Representative		*Careers Requiring a Bachelor's Degree:* Auditor Business Consultant Certified Public Accountant Corporate Trainer Health Care Administrator Human Resources Manager Investment Executive Marketing Analyst Public Relations Manager School Superintendent	



Program of Study for Education and Training Cluster

Grade	9	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	Pre-Calculus
Science	Earth Science	Biology	Chemistry or Physics	Chemistry or Physics
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster			WACC Early Childhood Education I	WACC Early Childhood Education II
Other Recommended Electives	Spanish I, Art	Spanish II, Art	Spanish III, Art	Spanish IV, Statistics, Art
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree or Certificate:* Child Care Worker Choreographer Coach Diving Instructor Fitness Instructor Sports Instructor Teacher Assistant Translator		*Careers Requiring a Bachelor's Degree:* Athletic Trainer Assessment Specialist Clinical Psychologist College/University Faculty Counselor Curriculum Developer Elementary/Middle/High School Teacher Librarian Principal Professor School Counselor/Social Worker/Psychologist Speech-Language Pathologist	

Program of Study for Finance Cluster

Grade	9	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	Pre-Calculus
Science	Earth Science	Biology	Chemistry or Physics	
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster			WACC CEO	WACC CEO
Other Recommended Electives	Spanish I	Spanish II	Business Math	Statistics
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree or Certificate:* Bank Teller Bookkeeper Commodities Representative Credit Counselor Insurance Agent Internal Auditor Tax Preparer Examiner Treasurer		*Careers Requiring a Bachelor's Degree:* Actuary Auditor Certified Public Accountant Economist Financial Planner Foreign Exchange Manager Investment Banker Money Manager Research Analyst Trader Venture Capitalist	

Program of Study for Government and Public Administration Cluster

Grade	9	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	
Science	Earth Science	Biology	Chemistry or Physics	Chemistry or Physics)
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster				
Other Recommended Electives	Spanish I	Spanish II	Spanish III	Spanish IV
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree or Certificate:* Coast Guard City Manager Election Supervisor Food Inspector Infantry Interpreter Transportation Inspector		*Careers Requiring a Bachelor's Degree:* Archivist Criminologist Economist Cryptographer Foreign Service Officer Immigration Officer Intelligence Analyst Internal Revenue Investigator Lobbyist Politician Public Policy Analyst	

Program of Study for Health Science Cluster

Grade	9	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	Pre-Calculus
Science	Earth Science	Biology	Chemistry or Physics, BIO 105, BIO 108	Chemistry or Physics, BIO 105, BIO 108
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster			WACC Health Occupations I	WACC Allied Health, WACC Health Occupations II
Other Recommended Electives	Spanish I	Spanish II	Spanish III	Spanish IV, Statistics
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree or Certificate:* Dental Assistant/Hygienist EMT/Paramedic Health Records Professional Home Health Aide Lab Technician Licensed Practical Nurse Massage Therapist Medical Imaging Technician Personal Trainer Phlebotomist Psychiatric Aide Radiographer Registered Nurse Veterinary Technician		*Careers Requiring a Bachelor's Degree:* Anesthesiologist Biomedical Engineer Dentist Geneticist Nutritionist Occupational Therapist Pharmacist Physician (MD/DO) Physician's Assistant Psychologist/Psychiatrist Radiologist Research Scientist Speech/Language Pathologist Surgeon Veterinarian	

Program of Study for Hospitality and Tourism Cluster

Grade	9Cu	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	
Science	Earth Science	Biology	Chemistry or Physics	
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster			WACC Culinary Arts I	WACC Culinary Arts II
Other Recommended Electives	Spanish I, Art	Spanish II, Art	Spanish III, Art	Spanish IV, Art

Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree or Certificate:* Butcher Caterer Chef Concierge Flight Attendant Hotel Desk Clerk Housekeeper Travel Agent	*Careers Requiring a Bachelor's Degree:* Curator Event Planner Hotel Manager Recreation Director Sports Marketer Zookeeper

Program of Study for Human Services Cluster

Grade	9	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	Statistics
Science	Earth Science	Biology	Chemistry or Physics	Chemistry or Physics
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster				
Other Recommended Electives	Spanish I, Art	Spanish II, Art	Spanish III, Art	Spanish IV, Art
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree or Certificate:* Community Worker Cosmetologist Early Childhood Educator Florist Esthetician Funeral Director Hospital Service Worker Humanitarian Aid Worker Massage Therapist Optician Personal Fitness Trainer Pet Groomer		*Careers Requiring at least a Bachelor's Degree:* Adoption Counselor Clergy Counselor (Addictions, Marriage and Family, Crisis, Rehabilitation, Career) Mental Health Nurse Midwife Psychiatrist Psychologist Social Worker	

Program of Study for Information Technology Cluster

Grade	9	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	Pre-Calculus
Science	Earth Science	Biology	Chemistry or Physics	
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster			WACC Computer Technology I	WACC Computer Technology II
Other Recommended Electives	Spanish I, Computer Tech I, Computer P & D	Spanish II, Computer Tech II	Statistics	Statistics
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree or Certificate:* Animator Desktop Publisher Electronics Repairer Quality Controller Technical Sales Representative Technician Video Game Developer Web Developer Webmaster		*Careers Requiring a Bachelor's Degree:* Animator Computer Engineer Computer Scientist Electrical Engineer Multimedia Developer Project Manager Video Game Developer Web Developer Webmaster	

Program of Study for Law, Public Safety, Corrections, and Security Cluster

Grade	9	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	
Science	Earth Science	Biology	Chemistry or Physics	Chemistry or Physics
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster	Intro to Agriculture	Any of the Agricultural Courses	WACC Criminal Justice	WACC Criminal Justice
Other Recommended Electives	Spanish I, Art	Spanish II, Art	Spanish III, Art	Spanish IV Honors, Art
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree: or Certificate* Corrections Officer Court Reporter Crime Scene Investigator EMT/Paramedic Firefighter Park Ranger Police Officer Public Information Officer Security Systems Technician Transportation Inspector		*Careers Requiring at least a Bachelor's Degree:* Civil Litigator Coroner Federal Agent Forensic Scientist Judge Lawyer Paralegal Probation/Parole Officer Youth Services Worker	

Program of Study for Manufacturing Cluster

Grade	9	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	Pre-Calculus
Science	Earth Science		Chemistry or Physics	
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster	Intro to Agriculture	Any of the Agricultural Courses	WACC Welding & Manufacturing I	WACC Welding & Manufacturing II
Other Recommended Electives	Spanish I, Art	Spanish II, Art		
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree or Certificate:* Blacksmith Electrician Heating, Air Conditioning, Refrigeration Tech Industrial Machinery Mechanic Manufacturing Technician Plumber Production Manager Quality Control Technician Tool and Die Maker Upholsterer Welder		*Careers Requiring a Bachelor's Degree:* Design Engineer Electrical Engineer Environmental Engineer Industrial Engineer Labor Relations Manager Quality Controller Safety Engineer	

Program of Study for Marketing Cluster

Grade	9	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	Statistics
Science	Earth Science	Biology	Chemistry or Physics	
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster			WACC Digital Media Arts I	WACC Digital Media Arts I
Other Recommended Electives	Spanish I, Art, Computer Tech I, Computer P & D	Spanish II, Art, Computer Tech II, Marketing	Spanish III, Art	Spanish IV, Art
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree or* Certificate*:* Copywriter/Designer Customer Service Representative Mortgage Broker Real Estate Agent Retail Marketing Coordinator Trade Show Manager Travel Agent Warehouse Manager Web Developer Webmaster Website Designer		*Careers Requiring a Bachelor's Degree:* Advertising Account Executive Appraiser Entrepreneur Media Buyer Sports Marketer Web Developer Webmaster Website Designer	

Program of Study for Science, Technology, Engineering and Mathematics Cluster

Grade	9	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	Pre-Calculus
Science	Earth Science	Biology	Chemistry or Physics, BIO 105, BIO 108	Chemistry or Physics, BIO 105, BIO 108
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster			WACC Building Trades I	WACC Building Trades II
Other Recommended Electives	Spanish I, Computer Tech I, Computer P & D, Art	Spanish II	Spanish III	Spanish IV
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree or Certificate:* Appliance Repairer CAD Technician Civil Engineer Drafter Electrical Engineering Tech Geologist Petroleum Engineer Taxidermist Technical Writer		*Careers Requiring a Bachelor's Degree:* Aerospace Engineer Agricultural Engineer Astronaut Biologist Biomedical Engineer Ecologist Geologist Mathematician Zoologist	

Program of Study for Transportation, Distribution and Logistics Cluster

Grade	9	10	11	12
English	English I	English II	English III	English IV
Math	Algebra I	Geometry	Algebra II	
Science	Earth Science	Biology	Chemistry or Physics	
Social Science	World History	U.S. History	World Geography/ Civics	Consumer Education
Physical Education	Physical Education, Health	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster	Intro to Agriculture	Any of the Agricultural Courses	WACC Automotive Technology I	WACC Automotive Technology II
Other Recommended Electives	Spanish I, Computer Tech I, Computer P & D	Spanish II, Computer Tech II		
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	*Careers Requiring an Associate's Degree or Certificate:* Air Traffic Controller Auto body Detailer Automotive Service Technician Civil Engineering Technician Industrial Machinery Mechanic Motorcycle Mechanic Pilot Transportation Inspector Truck Driver		*Careers Requiring a Bachelor's Degree:* GIS Specialist Logistics Specialist Operations Research Analyst Urban and Regional Planner	

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