

AMBOY HIGH SCHOOL
COURSE DESCRIPTIONS

2024-2025



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REVISED 01/04/2024

Please note: fees associated with some courses are subject to change prior to the beginning of the school year.

AGRICULTURE DEPARTMENT

FFA Dues Fee: \$15.00 (A one-time yearly fee)

COURSE TITLE: Ag Business Management - DUAL ENROLLMENT OPTION SEMESTER

DESCRIPTION: This course will provide students with the basic knowledge and skills necessary to manage personal finances and develop into a successful entrepreneurs and/or businessperson. Instructional units include business ownership types, starting an agribusiness, managing, and operating an agribusiness, financing an agribusiness, managing personal finances, record keeping and financial management of an agribusiness, local, state, and federal taxes, agricultural law, and developing employability skills. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. 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.

PREREQUISITE: Intro to Ag

LEVEL: 11th - 12th grade

COURSE FEE: SVCC dual-enrollment fee if taken for college credit

COURSE TITLE: Ag Sales & Marketing SEMESTER

DESCRIPTION: This course is designed to develop student knowledge and skills in agricultural sales and marketing, commodity marketing, agricultural economics, and international agriculture. Instructional units include successfully starting an agribusiness, developing a marketing plan, pricing, advertising, and selling products and services, communicating with customers, applying commodity trading techniques, basic economic principles, the international agribusiness economy, and agricultural career opportunities. Student skills will be enhanced in math, reading comprehension, communications, and writing through agribusiness applications. 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.

PREREQUISITE: Intro to Ag

LEVEL: 10th - 12th grade

COURSE TITLE: Ag Construction I SEMESTER

DESCRIPTION: This advanced course focuses on the knowledge, hands-on skills, and work place skills applicable to construction in the agricultural industry. Major units of instruction include personal safety, hand tools, power tools, blueprint reading, surveying, construction skills in carpentry, plumbing, electricity, concrete, block laying, drywall, and painting. Careers such as agricultural engineers, carpenter, plumber, electrician, concrete and block layers, finishers, safety specialists, and other related occupations will be examined. Improving workplace and computer 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.

PREREQUISITE: Intro to Ag

LEVEL: 10th - 12th grade

ADDITIONAL CLASS SUPPLY FEE: \$10.00

COURSE TITLE: Advanced Ag Construction

SEMESTER

DESCRIPTION: Advanced Agricultural Construction courses include an integrated way to learn geometry through the application in construction. The structural concepts within the course are organized to complement the skills and the knowledge learned in geometry lessons. Students will experience working days on a job site or technical project, as well as classroom experiences, focused on the development and review of geometry concepts. On working days, students will collaborate to build anything from sawhorses and modular furniture to manufactured housing and tiny

homes. The course will provide students the opportunity to immediately apply what they are learning about geometry to their projects and buildings. 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.

PREREQUISITE: Ag Construction I

LEVEL: 10th - 12th grade

ADDITIONAL CLASS SUPPLY FEE: \$10.00

COURSE TITLE: Ag Engine Maintenance

SEMESTER

DESCRIPTION: This course provides students with the opportunity to learn how to operate, service, and recondition agricultural power units, emphasizing two- and four-cycle small gasoline engines. This class will provide students with opportunities to troubleshoot and repair speed controls, lubrication, ignition, fuel, power transfer, cooling, exhaust, and starting systems; use hand, power, and overhaul tools; and read and interpret service manuals and parts' catalogs. Additional units of instruction may include power transmission, electrical, and hydraulic/pneumatic systems. Applications may include lawn mowers, tractors, tillers, power tools, and so on. Improving workplace skills will be a focus in this course. 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.

PREREQUISITE: Intro to Ag

LEVEL: 10th - 12th grade

ADDITIONAL CLASS SUPPLY FEE: \$10.00

COURSE TITLE: Ag Leadership

SEMESTER

DESCRIPTION: Agricultural Leadership courses help students develop leadership skills with a focus on opportunities in the food, fiber, and natural resources industries. Topics may include but are not limited to human relationships and effective communication, decision-making and problem-solving, leadership qualities and styles, and ensuring successful completion of group activities. Students will learn to lead groups and teams, manage volunteers, exercise leadership ethics, and be able to demonstrate leadership in multicultural settings. 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.

PREREQUISITE: Intro to Ag

LEVEL: 10th - 12th grade

COURSE TITLE: B.S.A.A. (Animal Science)

SEMESTER

DESCRIPTION: This course is designed to reinforce and extend students' understanding of biology by associating advanced scientific principles and concepts with relevant applications in agricultural animal systems. Students will examine major phases of animal agriculture and specific biological science concepts that govern management decisions in the animal industry. Topics of study are in the areas of growth and development of animals – embryology, ethology, nutrition, immunity systems, and processing animal products preservation, fermentation, and pasteurization. The course will be valuable preparation for post-secondary education and will increase the relevance of science through the applied setting of agricultural animal systems by enhancing literacy in science and the scientific process. 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.

PREREQUISITE: 1 year of Biology or teacher consent

LEVEL: 10th - 12th grade

COURSE TITLE: B.S.A.A. (Plant & Soil Science)**SEMESTER**

DESCRIPTION: This course is designed to reinforce and extend students' understanding of science by associating basic scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of plant growth and management in agriculture and the specific biological science concepts that govern management decisions. Topics of study are in the areas of initiating plant growth – cell structure and function, germination, plant sensory mechanisms, enzyme action, absorption, and managing plant growth – photosynthesis, respiration, translocation, metabolism, genetics, taxonomy, and growth regulation. The course will be valuable preparation for further education and will increase the relevance of science through the applied setting of agriculture by enhancing literacy in science and the scientific process. 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.

PREREQUISITE: 1 year of Biology or teacher consent

LEVEL: 10th - 12th grade

COURSE TITLE: Ag Mechanics - DUAL ENROLLMENT OPTION**YEAR**

DESCRIPTION: First semester, theory and hands-on experiences provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. Instructional areas include the fundamentals of maintaining and repairing small gasoline engines, basic electricity, welding, construction, cold metal work, and operating agricultural equipment safely. Improving workplace and computer 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.

Second semester will concentrate on expanding student's knowledge and experiences with agricultural mechanics technologies utilized in the agricultural industry. Units of instruction included are design, construction, fabrication, maintenance, welding, electricity/electronics, internal combustion engines, hydraulics, and employability skills.

Careers of agricultural construction engineer, electrician, plumber, welder, equipment designer, parts manager, safety inspector, welder, and other related occupations will be examined. Improving workplace and computer 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.

Examples of units included are: Design, Construction, Fabrication, and Maintenance; Welding; Electricity/Electronics; Internal Combustion Engine; Hydraulics;

Environmental/Natural Resources Management; and Employment Skills. Microcomputer applications are utilized as they relate to each instructional unit. Because FFA and Supervised Agricultural Experience Programs are integral components of this course, students are required to participate in activities of the FFA organization.

PREREQUISITE: Intro to Ag

LEVEL: 11th - 12th grade

ADDITIONAL CLASS SUPPLY FEE: \$45.00 & SVCC dual-enrollment fee if taken for college credit

COURSE TITLE: Ag Science**YEAR**

DESCRIPTION: This course builds on basic skills and knowledge gained in the Introduction to the Agricultural Industry course. Major units of instruction include agricultural research, soil science, advanced plant science, biotechnology, advanced animal science. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. 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.

PREREQUISITE: Intro to Ag

LEVEL: 10th - 12th grade

COURSE TITLE: Ag Biology**YEAR**

****This course could replace General Biology and be used to meet the Biological Science requirement for high school graduation****

DESCRIPTION: "Agricultural Biology is designed for freshman and sophomore students interested in learning about food systems or the production, processing, distribution, and consumption of food products as well as the interactions of various aspects of food systems with the natural environment. Agricultural Biology will cover all major topics in life science including biochemistry, ecology, cells, reproduction, heredity, biological evolution and diversity. The course will cover the majority of the Performance Expectations in the following Illinois Learning Standards in Science as well as a few physical, earth and space science, and engineering design performance expectations:

PREREQUISITE: Enrollment or Completion of Intro to Ag

LEVEL: 9th - 12th grade

COURSE TITLE: Applied Mathematics in Ag**YEAR**

****This course could count as a 3rd or 4th year math course as required for HS graduation****

DESCRIPTION: Applied Mathematics in Agriculture (AMA) courses apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of Agribusiness Systems and Power, Structural, and Technical Systems. Topics covered may include whole numbers, fractions, decimals, ratios, measurements, basic algebra, plane geometry, solid figures, triangle geometry, intermediate algebra, and statistics. Course topics may be applied in a class business and/or structural project. 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.

PREREQUISITE: Intro to Ag

LEVEL: 11th - 12th grade

COURSE TITLE: Intro to Ag Industry**YEAR**

DESCRIPTION: This course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in animal science, plant science, soil science, horticulture, natural resources, agribusiness management, and agricultural mechanics, will be presented. Students will learn about FFA History, Structure, parliamentary procedure, leadership skills and public speaking. 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.

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE TITLE: AFNR Workplace Experience (Formerly: (Supervised Ag Experience)**YEAR**

DESCRIPTION: Agriculture, Food & Natural Resources Workplace Experience courses provide work experience in fields related to the Agriculture, Food, & Natural Resources cluster. Goals must be set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses must include classroom instruction at least once per week, involving further study of the field, discussion of relevant topics that are responsive to the workplace experience and employability skill development. Workplace Experience courses must be taught by an approved WBL educator-coordinator. These courses should be aligned to a Career Development Experience that could include: Student-led Enterprises; School-based Enterprises; Immersion Supervised Agricultural Experiences; Clinical Experiences in Science and Technology programs; Internships; and Apprenticeship programs including Youth Apprenticeships, Pre-apprenticeships, and Registered Apprenticeships. Participation in FFA student organization activities is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

PREREQUISITE: Intro to Ag & Be a FFA member in good standing

LEVEL: 10th - 12th grade

COURSE TITLE: Veterinary Science I**SEMESTER**

DESCRIPTION: This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Topics to be discussed include veterinary terminology, anatomy and physiology, pathology, genetics, handling and restraint, first-aid, and physical examinations along with common surgical skills. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. 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.

PREREQUISITE: Biology & Intro to Ag

LEVEL: 10th - 12th grade

ADDITIONAL CLASS SUPPLY FEE: \$10.00

COURSE TITLE: Welding I**SEMESTER**

DESCRIPTION: This course will emphasize the development of basic welding skills necessary to succeed in the agricultural metal fabrication industry. Topics of instruction include welding safety, metal identification and properties, joint design and terminology, metal preparation, use of oxyacetylene torch, Stick Metal Arc Welding (SMAW) focusing on the flat and horizontal position, Gas Metal Arc Welding (GMAW), project design and construction. Suggested electrodes for this course are E6013 and E6011. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership career exploration and reinforcement of academic concepts.

PREREQUISITE: Intro to Ag

LEVEL: 10th - 12th grade

ADDITIONAL CLASS SUPPLY FEE: Consumable welding materials \$25.00

COURSE TITLE: Welding II**SEMESTER**

DESCRIPTION: Advanced Agricultural Welding focuses on the development of advanced welding and metal fabrication techniques utilized within the agricultural industry. Topics of instruction may include welding safety, technical drawings & blueprint reading, welding symbols, welding discontinuities and failures, destructive testing, nondestructive examination, equipment setup, metal preparation, pipe welding, cutting processes, oxyfuel cutting/welding, shielded metal arc welding, gas metal arc welding, flux cored arc welding, and gas tungsten arc welding processes. Suggested welding positions are flat, horizontal, vertical down, and vertical up. Electrodes taught and used may include E6010, E6011 and E7018. This course should be aligned with an industry-recognized credential. Upon successful completion, it is suggested students receive an industry certification or dual credit through a local accredited institution. Improving workplace skills will be a focus in this course. 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.

PREREQUISITE: Intro to Ag, Welding I, Teacher approval

LEVEL: 10th - 12th grade

ADDITIONAL CLASS SUPPLY FEE: Consumable welding materials \$25.00

COURSE TITLE: Horticulture**SEMESTER**

DESCRIPTION: This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include horticulture research, horticultural careers, plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, growing greenhouse crops, and floral design. 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.

PREREQUISITE: Intro to Ag

LEVEL: 9th - 12th grade

COURSE FEE: \$25.00

BUSINESS/COMPUTER DEPARTMENT

COURSE TITLE: Accounting I (Part 1)

SEMESTER

DESCRIPTION: This semester course is to develop an understanding of how a business operates on a day-to-day basis. There will be a focus on accounting as a profession, financial reports, financial analysis, the accounting process, and compliance with laws and regulations. Aside from direct instruction, basic accounting fundamentals will be taught and assessed through an accounting simulation. This simulation allows the student to become the “accountant” of a fictitious service business organized as a sole proprietorship. They will interpret transactions and then record and post the transactions. At the end of the cycle, they will create the financial statements for the business. College bound students considering a major in any business field should take this class.

PREREQUISITE: None

LEVEL: 10th - 12th grade

LAB FEE: \$15.00 (one workbook and two simulations)

COURSE TITLE: Accounting I (Part 2)

SEMESTER

DESCRIPTION: This course is designed to help students to develop greater knowledge of the accounting principals and how various businesses operate on a day-to-day basis. There will be a focus on accounting as a profession, financial reports, financial analysis, inventory costs, profit and compliance with laws and regulations. Aside from direct instruction, basic accounting fundamentals will be taught and assessed through an accounting simulation. This simulation allows the student to become the “accountant” of a fictitious merchandising business organized as a partnership. They will interpret transactions and then record and post the transactions. At the end of the cycle, they will create the financial statements for the business. College bound students considering a major in any business field should take this class.

PREREQUISITE: Accounting I (Part 1)

LEVEL: 10th - 12th grade

LAB FEE: \$15.00 (one workbook and simulation)

COURSE TITLE: Accounting II

YEAR

DESCRIPTION: This course is designed to help students to develop greater 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. Students may become familiar with such specialized fields as cost accounting, tax accounting, payroll accounting, payroll clerk and data processing computer applications.

PREREQUISITE: Accounting I (Part 1 & 2)

LEVEL: 11th - 12th grade

LAB FEE: \$15.00 (one workbook and simulation)

COURSE TITLE: Resource Management

SEMESTER

DESCRIPTION: A semester course with the purpose of enhancing student knowledge of everyday consumer skills. Students will study economics, taxes, budgets, banking, credit, financing college, investments and buying a car/home. Students will engage in projects designed to introduce them to real world problems and events, such as paying bills and maintaining a budget. This course meets the state requirement for consumer education.

PREREQUISITE: None

LEVEL: 10th - 12th grade

COURSE TITLE: Business Co-op / Work Co-op

YEAR

2.5 credits=1/class & 2/work

DESCRIPTION: Students interested in the co-op program will learn the employability competencies required in the 21st Century Workplace. The course will teach responsibility, integrity, taking initiative and being self-monitoring. Students will focus on creating a resume and cover letter for the job classification they are interested in and learn interviewing techniques. Students will be encouraged to apply for prospective jobs that can be part of the Co-op work experience. Business Co-op Class is required to be taken first semester along with Work Co-op. Work Co-op can be a one or two year experience. Students are encouraged to find employment in the field they wish to pursue after high school. Employment experience must be a supervised, paid experience. Class size is limited to 20.

Students wishing to participate must have a 2.75 GPA and no more than ten absences in their previous year.

PREREQUISITE: Completed application, 3 teacher recommendations, and an interview. Students will be accepted into the program based on application, recommendations, interview and attendance.

LEVEL: 11th - 12th grade

COURSE TITLE: Senior Internship

SEMESTER OR YEAR

DESCRIPTION: Senior students having a specific interest in exploring a particular career in depth are placed in a supervised workplace environment, on a paid or non-paid basis. Students participating in this program are expected to learn about and perform many of the duties of the career being researched, and keep a detailed journal describing their experience and the knowledge they have gained. A portfolio of their work will also be developed. This program will be under the direction of the co-op program and participation in it is strictly limited based on the ability to find a compatible internship site. **Students wishing to participate must have a 2.75 GPA and no more than ten absences in their junior year.** If interested in signing up for this class, please see the Guidance Counselor.

PREREQUISITE: Business Co-op Class; Students will be accepted into the program based on application, recommendations, interview and attendance.

LEVEL: 12th grade

COURSE TITLE: Business Law

SEMESTER

DESCRIPTION: This course is designed to introduce the student to the study of law through a look at what is ethical, criminal law, societal problems, the legal system in the United States, and the functions of the federal and state court systems. Additional topics include computer law, financial crimes, legal careers, contracts and business organization. This course will help students become aware of their rights and responsibilities under the laws so they can function as

responsible citizens in their personal and professional lives. At the completion of the semester, and time permitting, a mock trial will be conducted by the class.

PREREQUISITE: None

LEVEL: 10th - 12th grade

COURSE TITLE: 21 Century Ready (required 9th grade)

SEMESTER

DESCRIPTION: This is a semester long class designed to help students prepare for high school and beyond. The class is divided into two portions. During the first 9 weeks students discover careers that meet their skills, interests, values, and personalities. Emphasis will be placed on career exploration, teamwork, job acquisition skills, resumes, interviewing, and job shadowing. The second portion of the class focuses on skills to aid students in high school and beyond, including but not limited to: note taking, correspondence, and communication skills. This class is required for graduation.

PREREQUISITE: None

LEVEL: 9th grade

COURSE TITLE: Computer Concepts (required 9th grade)

SEMESTER

DESCRIPTION: A required one-semester orientation course designed to improve student's computer skills. Through practical exercises students are introduced to real-world applications using both Google Apps and

Microsoft office. Students will create documents, spreadsheets and presentations using both applications and make comparisons between the programs while learning to transfer their skills from one to the other. Students will use Google tools such as: Photos, Maps, Sketch Up, GMail, Hangouts, and Sites. Students will also work with Microsoft Publisher to allow them to use their creative side to produce real-world projects.

PREREQUISITE: None

LEVEL: 9th grade

COURSE TITLE: Entrepreneurship

SEMESTER

DESCRIPTION: A focus on the primary topics related to the general principles of business management and its daily operations. Students will learn the skills necessary to succeed as an entrepreneur. The fundamentals of starting and operating a business, developing a business plan, obtaining financing, marketing a product or service and developing an effective accounting system.

Students will understand what skills are needed for management success through use of the decision-making process, leadership skills, and analysis of financial information.

PREREQUISITE: None

LEVEL: 10th - 12th grade

COURSE TITLE: Investing for Your Future

SEMESTER

DESCRIPTION: Students will participate in the Stock Market Game Program, an integrating and exciting Internet simulation on trading stocks. This class is designed to spark student interest in the stock market, help make future investment decisions, and look at the risk involved. This course will allow the student to see managing their finances through the eyes of an adult. Subjects learned throughout the course are: money management, the power of investing, retirement, insurance, investing in a home or car, determining financial outcomes, and financial analysis.

PREREQUISITE: None

LEVEL: 10th - 12th grade

LAB FEE: \$10

COURSE TITLE: Sports Marketing

SEMESTER

DESCRIPTION: This class will look at marketing techniques with an emphasis in the sporting world. We will look at college sports, professional sports, and amateur sports. We will discuss topics such as promotions, royalties, public relations, fans, endorsements, agents, managers, and franchising. Software will be used titled Virtual Business – Sports in which the student becomes the owner of a football franchise and is in charge of selecting the players, location of the franchise, ticket prices, promotions, and licensing in an effort to complete an entire season with profit.

PREREQUISITE: None

LEVEL: 10th - 12th grade

COURSE TITLE: TechHELP! 101

YEAR

DESCRIPTION: The TechHELP! 101 course is a hands-on class designed to support teaching and learning in a 1:1 Chromebook environment. Students will be required to assist with technology problems both (hardware and software) for students and teachers and will offer multiple solutions to technology-related problems. TechHELP! 101 students will be responsible, work independently, and demonstrate leadership. They will serve as role models to their peers.

PREREQUISITE: Application and Interview with tech coach and coordinator

LEVEL: 10th - 12th grade

COURSE TITLE: Yearbook

YEAR

DESCRIPTION: This yearlong course is designed to provide students with the journalism skills and the ability to apply those skills to the actual production of the yearbook. Units of study include teamwork, responsibility, brainstorming, content, coverage, writing, photography, design, yearbook campaign, advertising and distribution.

Students may be asked to leave course at semester if work/production is not proficient. Actual work results in the publication of the Amboyan yearbook

PREREQUISITE: None

LEVEL: 10th - 12th grade

EDUCATION PATHWAY COURSES

COURSE TITLE: Pathway Competencies I

SEMESTER

DESCRIPTION: This course has been designed to introduce students to professional education competencies as well as employment and entrepreneurial competencies. Instruction and activities will address educational competencies including: planning and preparation, classroom environment, professional responsibilities, and instruction. Employment competencies including: communication, accountability, planning and organizing, problem solving, critical thinking, decision making, and teamwork. Entrepreneurial competencies including innovation and invention, and growth in mindset. Students will be required to complete job shadows of education professionals during the semester as well as 25 hours of classroom observation. Students will complete one of two team-based challenges related to the field of education, collaborative in nature, and includes a presentation of the challenge.

PREREQUISITE: None

LEVEL: 10th - 12th grade

COURSE TITLE: Pathway Competencies II

SEMESTER

DESCRIPTION: Students enrolled in this course will continue to build on their knowledge of educational competencies along with employability and entrepreneurial competencies. Students will reflect on their progress as learners and on progress made towards their academic goals. Students are required to participate in the second of two team-based challenges related to the field of education. Students will create a portfolio to archive their secondary experiences. Students will create a personal statement reflecting on growth attainment using competency rubrics. Time is given for students to complete necessary components of their individualized lesson plan to obtain the Pathway Endorsement.

PREREQUISITE: Pathway Competencies I and Supervised Experience III

LEVEL: 12th grade

COURSE TITLE: Supervised Experience I

SEMESTER

DESCRIPTION: Students are required to complete 60 hours of supervised field experience. During this experience students will complete 20 hours of the experience. A log of the experience must be maintained and submitted as part of the education portfolio requirements. This experience differs from observation in that it requires students to take on some of the duties of the education professional and to interact with the students. Experiences will include: working with small groups of students, working with individual students, and leading whole group class activities at least once during the experience. Students are required to complete a self-reflection of their experience. Supervising teachers will complete an evaluation of the students' performance multiple times during their experience.

PREREQUISITE: Pathway Competencies I

LEVEL: 11th - 12th grade

COURSE TITLE: Supervised Experience II

SEMESTER

DESCRIPTION: Students are required to complete 60 hours of supervised field experience. During this experience students will complete 20 hours of the experience. A log of the experience must be maintained and submitted as part of the education portfolio requirements. This experience differs from observation in that it requires students to take on some of the duties of the education professional and to interact with the students. Experiences will include: working with small groups of students, working with individual students, and leading whole group class activities at least once during the experience. Students are required to complete a self-reflection of their experience. Supervising teachers will complete an evaluation of the students' performance multiple times during their experience.

PREREQUISITE: Pathway Competencies I and Supervised Experience I

LEVEL: 11th - 12th grade

COURSE TITLE: Supervised Experience III

SEMESTER

DESCRIPTION: Students are required to complete 60 hours of supervised field experience. During this experience students will complete 20 hours of the experience. A log of the experience must be maintained and submitted as part of the education portfolio requirements. This experience differs from observation in that it requires students to take on some of the duties of the education professional and to interact with the students. Experiences will include: working with small groups of students, working with individual students, and leading whole group class activities at least once during the experience. Students are required to complete a self-reflection of their experience. Supervising teachers will complete an evaluation of the students' performance multiple times during their experience.

PREREQUISITE: Pathway Competencies I and Supervised Experience II

LEVEL: 12th grade

ENGLISH DEPARTMENT

COURSE TITLE: English I

YEAR

DESCRIPTION: This course will strive to improve students' ability to read, write, listen, and speak. Students will study different genres of literature and specific writing styles within the StudySync curriculum and various additional offline activities. Literature genres include informational texts, short stories, a play and the theater (Shakespeare's *Tragedy of Romeo and Juliet*), and novels (*Of Mice and Men* and *To Kill a Mockingbird*). Writing genres include narrative, argumentative, and research. Grammar and usage skills will be visited through integration into daily lessons and/or units to help correct composition errors or areas of weakness.

PREREQUISITE: None

Level: 9th grade

COURSE TITLE: English II

YEAR

DESCRIPTION: This course is an integrated one in which literature is the focus. Students will study a variety of literary works: novels, plays, non-fiction, poetry, and short stories. Within the study of literature, students will learn to write various modes of discourse. This will include writing analytical, reflective, informational, and research-based essays. The study of grammatical conventions, vocabulary development, and speaking is also an integral part of this course. Work in our online platform, StudySync, will be required, and we will cover certain pieces of literature such as Bradbury's *Fahrenheit 451*, Rand's *Anthem*, Coehlo's *The Alchemist*, Skloot's *The Immortal Life of Henrietta Lacks*, and Sophocles' *Antigone*.

PREREQUISITE: None

LEVEL: 10th grade

COURSE TITLE: English III

YEAR

DESCRIPTION: This course will further develop the general goals of all English Courses: to improve the students' ability to write, listen, read, and speak. Non-fiction works, poetry, short stories, drama, and novels will be used in this examination of American Literature. Our focus will be on literature's intent as response to and reflection American history.

PREREQUISITE: None

LEVEL: 11th grade

COURSE TITLE: English IV

YEAR

DESCRIPTION: This course will further develop the general goals of all English courses: to improve the student's ability to write, listen, read, and speak. This is a writing intensive course based in non-fiction reading. Thematic

units will help students develop their critical thinking and metacognitive skills. This course will also provide an option for placement in a college-level English class.

PREREQUISITE: None

LEVEL: 12th grade

COURSE TITLE: Communications

SEMESTER

DESCRIPTION: This course provides students with a variety of speech communication experiences, with an emphasis placed on the preparation, organization, composition, and delivery of the oral presentation. Students study interpersonal communication, verbal and non-verbal communication, and listening skills. Students also study what it means to be a digital citizen and how that affects them in the “real world.” Students present a number of speeches throughout the course, including an expository presentation, a research-based persuasive speech, and a research-based Public Service Announcement campaign based on a need for social change.

PREREQUISITE: None

LEVEL: 9th -12th grade

COURSE TITLE: Chillers and Thrillers

Offered 2024-2025

SEMESTER

DESCRIPTION: This class will focus on novels, novellas, short stories, and films. Students will read works by Edgar Allan Poe and Stephen King, as well as others in the genre. A film study and research project will end the semester.

PREREQUISITE: Successful completion of English I and English II

LEVEL: 11th - 12th grade

COURSE TITLE: Creative Writing

SEMESTER

DESCRIPTION: Creative Writing is a semester elective designed to expand the students’ minds and imaginations through an original character. Students will develop elements of their own writing through guided activities and selected writing foundation lessons. Later in the semester, students will compose a final masterpiece that brings to a close the journey their original character experienced. Students can expect in-class writing time, peer editing and brainstorming, writing projects--short and long, and endless opportunities for expression in writing.

PREREQUISITE: Successful completion of English I

LEVEL: 10th - 12th grade

COURSE TITLE: Creative Writing II

SEMESTER

DESCRIPTION: This class is designed to be a continuation of Creative Writing I. Longer writing projects will carry over from previous creations, including new character development and exploration into different writing styles. We will investigate amateur and professional publishing opportunities and writing contests.

PREREQUISITE: Creative Writing I

LEVEL: 10th - 12th grade

COURSE TITLE: Drama

Offered 2025-2026

SEMESTER

DESCRIPTION: Drama is a performance-based class designed to give students an introduction to theater with an emphasis on acting. Students will learn to interact with other performers, improvisation, nonverbal communication, body language, role playing, and recognizing and developing dramatic conflicts. Students will also focus on vocal interpretation and voice control, interpretive actions, how to block a scene using stage terminology, and finally read and analyze plays. In small and large groups, students will perform on stage with lines memorized and prop usage.

PREREQUISITE: Successful completion of English I

LEVEL: 10th - 12th grade

COURSE TITLE: Film and Literature

SEMESTER

DESCRIPTION: The purpose of this class is to apply skills normally associated with the reading of literature to the medium of film. Students will be required to create a minimum of 2 projects and write several analytical essays. We will examine a variety of films from several eras and genres.

PREREQUISITE: Successful completion of English I and English II

LEVEL: 10th - 12th grade

COURSE TITLE: Greek Mythology

SEMESTER

DESCRIPTION: Students will read and discuss a variety of literary works pertaining to Greek mythology and also watch related films. Discussions will include reference to a variety of material in addition to readings and films themselves. Students will survey ancient Greek stories about heroes, gods, and the universe and illustrate the influence of these myths of the arts, literature and culture of the modern world. Throughout the semester, we will take a look at contemporary views of Greek mythological stories. This will include watching a few short videos and movies. It may also include analyzing some poetry (for its content).

PREREQUISITE: Completion of English I

LEVEL: 10th - 12th grade

COURSE TITLE: Shakespeare

SEMESTER

DESCRIPTION: Students will read a variety of Shakespearian texts including both drama and poetry. Students will also view both direct and modernized versions of plays. We will focus on translation of works and modern social significance.

PREREQUISITE: Successful completion of English I and English II

LEVEL: 11th - 12th grade

COURSE TITLE: Short Story

SEMESTER

DESCRIPTION: Many American authors will be read and discussions will be led by students. Discussion and instruction will center on varying styles, themes, and types of short stories. One short story will be produced by each student in the class. The various genres will be covered from horror to mystery, classic to modern, and more.

PREREQUISITE: Successful completion of English I

LEVEL: 10th -12th grade

FINE ARTS DEPARTMENT

COURSE TITLE: Spanish I

YEAR

DESCRIPTION: Introduction to the basic grammatical concepts, (nouns, pronouns, verbs, adjectives, adverbs). Development of oral communication and listening comprehension skills are stressed. Students will focus on verbs and vocabulary as well as sentence and question construction. Cultural topics will also be discussed.

PREREQUISITE: Recommended "C" average or higher in English/Language Arts classes 6-9 grades.

COURSE TITLE: Spanish II

YEAR

DESCRIPTION: Continued work on grammatical concepts with emphasis on different verb tenses. Vocabulary will be expanded. Continued development of oral comprehension, speaking skills, and written work are stressed. Cultural topics will be expanded upon.

PREREQUISITE: Recommended "C" average or higher in Spanish I.

COURSE TITLE: Spanish III

YEAR

DESCRIPTION: Continued work on grammatical concepts, oral comprehension, speaking skills, and written work. Students will expand vocabulary and verb tenses. Students will begin to speak mostly Spanish in class. Cultural topics will be expanded upon. Literature will be introduced and cultural topics will be expanded upon.

PREREQUISITE: Recommended "C" average or higher in Spanish II.

COURSE TITLE: Spanish IV

YEAR

DESCRIPTION: Continued work and improvement towards fluency with grammatical concepts, oral comprehension, speaking skills, and written work. Students will be required to speak Spanish during class. Besides basic skill acquisition, students will begin reading popular literature, poetry, and plays.

PREREQUISITE: Recommended "C" average or higher in Spanish III.

COURSE TITLE: 2D Art

SEMESTER

DESCRIPTION: **(Drawing, Painting, Printmaking)**

Introductory: Students will apply art history, art criticism, and aesthetics to find explanations of artworks. Students will use a variety of two-dimensional media, tools and techniques to create original works (drawing, painting, and printmaking) of art that use the elements and principles of art. This class may be taken 2 times.

Intermediate: Students will demonstrate knowledge of media, tools, and techniques to create original, two-dimensional works of art (drawing, painting, printmaking). Students will evaluate artworks using art history, art criticism, and aesthetics. This class may only be taken 1 time.

Advanced: Students will create original, two-dimensional works of art (drawing, painting, printmaking) that investigate media, tools, and techniques. Students will determine how their original 1 artworks show the influence of art history, art criticism, and aesthetics. This class may only be taken 1 time.

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE FEE: \$20.00

COURSE TITLE: 3D Art

SEMESTER

DESCRIPTION: **(Sculpture & Ceramics)**

Introductory: Students will demonstrate knowledge of media, tools, and techniques to create original, three-dimensional works of art (sculpture & ceramics). Students will apply art history, art criticism, and aesthetics to find explanations of artworks. This class may be taken 2 times.

Intermediate: Students will demonstrate knowledge of media, tools, and techniques to create original, three-dimensional works of art (sculpture & ceramics). Students will evaluate artworks using art history, art criticism, and aesthetics. This class may only be taken 1 time.

Advanced: Students will create original, three-dimensional works of art (sculpture & ceramics) that investigate media, tools, and techniques. Students will determine how their original artworks use art history, art criticism, and aesthetics. This class may only be taken 1 time.

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE FEE: \$20.00

COURSE TITLE: Computer Art

SEMESTER

DESCRIPTION: **(Graphic Design, Digital Photography, Media Arts)**

Introductory: Students will demonstrate knowledge of the elements and principles of design and Photoshop to create computer generated artworks that illustrate visual communication skills. Apply aesthetic criteria in developing and refining works of art in the media arts. This class may be taken 2 times.

Intermediate: Students will demonstrate innovation and adaptation to create computer generated artworks, using Photoshop, that illustrate visual communication skills. Apply a personal aesthetic when developing and refining works of art in the media arts. This class may only be taken 1 time.

Advanced: Students will demonstrate fluency and independence to create computer generated artworks, using Photoshop, that illustrate visual communication skills. Integrate a personal aesthetic when experimenting to create works of art in the media arts. This class may only be taken 1 time.

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE FEE: \$20.00

COURSE TITLE: Art Appreciation - Dual Enrollment

SEMESTER

DESCRIPTION: A survey of the visual arts (painting, drawing, printmaking, sculpture and architecture). Examines historical, social and technological factors that contribute to understanding the function and meaning of works of art. Dual-enrollment through SVCC is offered and if accepted, fulfills a fine arts general education requirement for the non-art major at colleges and universities.

PREREQUISITE: None

LEVEL: 11th - 12th grade

COURSE FEE: SVCC dual-enrollment fee if taken for college credit

COURSE TITLE: Band

YEAR

DESCRIPTION: Students who enjoy playing their instruments are encouraged to participate in band. Students will participate in concert, marching, and pep bands. Performances are required and include three concerts, football field shows, parades, and basketball pep bands. Students will learn music theory and notation and have the opportunity to play various types of music literature. Group lessons meet once each week. Students are given the opportunity to audition and attend contests and festivals throughout the year.

PREREQUISITE: Ability to read music

LEVEL: 9th - 12th grade

COURSE TITLE: Chorus

YEAR

DESCRIPTION: Students who enjoy singing are encouraged to participate in chorus. Students will learn how to read music and have the opportunity to sing various types of music literature. Performances are required and include 3 concerts and extra-curricular events where the National Anthem is performed. Students are given the opportunity to audition and perform at various contests and music festivals throughout the year.

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE TITLE: Music Appreciation I

SEMESTER

DESCRIPTION: This class is the study of music history in the world from the 1940's - 1975. We will cover music from the following genres; Jazz, Rockabilly, Bluegrass, British Invasion, European Rock, R & B, Country, Rock and Roll, and classic rock. Artist covered will include; Elvis Presley, Johnny Cash, The Beatles, Rolling Stones, Jackson 5, and many, many more.

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE TITLE: Music Appreciation II

SEMESTER

DESCRIPTION: This class is the study of music history in the world from the 1975 – Present Day. We will cover music from the following genres; Jazz, Rockabilly, Bluegrass, Country, Rock and Roll, Classic Rock, British Invasion, European Rock, Metal, R & B, Hip Hop, and Rap. Artist covered will include; Lynyrd Skynyrd, Pink Floyd, Madonna, Britney Spear, George Strait, Garth Brooks, RUN DMC, and many, many more.

PREREQUISITE: None

LEVEL: 9th - 12th grade

MATH DEPARTMENT

COURSE TITLE: Algebra 1

YEAR

DESCRIPTION: The following topics will be covered in this course: sets of numbers, properties of numbers, solving and graphing linear equations and inequalities, slope of lines and exponents. Polynomials, factoring, system of equations and the quadratic equation will also be introduced.

PREREQUISITE: None LEVEL: 9th - 10th grade

COURSE TITLE: Algebra 1A (2 periods per day)

YEAR

DESCRIPTION: This course will cover the same material as Algebra I, but will meet every day for two periods. Students taking this class will receive 1 ½ math credits and ½ an elective credit towards graduation.

PREREQUISITE: Teacher recommendation & placement

LEVEL: 9th grade

COURSE TITLE: Geometry

YEAR

DESCRIPTION: This course takes an abstract, formal approach to the study of geometry, include topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

PREREQUISITE: Algebra 1

LEVEL: 9th - 10th grade

COURSE TITLE: Conceptual Geometry

YEAR

DESCRIPTION: Covers the same material as Geometry, but will include more individualized attention to the subject matter.

PREREQUISITE: Teacher Recommendation or Administrative Placement

LEVEL: 10th - 12th grade

COURSE TITLE: Algebra 2

YEAR

DESCRIPTION: Students will see polynomials as a system and not just a set of expressions to classify and manipulate and see rational functions as an extension of polynomials. Reviews on linear, exponential and quadratic functions are reemphasized with polynomial, rational, and trigonometric functions. Students will look at the role of randomization in statistical design and processes. Students see mathematics as a tool to model real-world situations. They write algebraic expressions, create functions, create geometric models and understand statistical relationships. Students understand the effects of parameter changes and apply them to create rules for modeling functions in context.

PREREQUISITE: Algebra I and Geometry

LEVEL: 10th - 12th grade

COURSE TITLE: Practical Math 3A

YEAR

DESCRIPTION: This course is not part of the regular math sequence, but does fulfill the required third year of math for students NOT planning on earning a four-year college degree. The class will focus on applying math to real world situations that students will encounter after graduation.

Topics will include, but are not limited to: reading and using a ruler, handling cash transactions, using fractions, budgeting for vacations or home remodeling projects, and much more. Concepts from the Integrated series will also be reviewed and addressed.

PREREQUISITE: Teacher Recommendation or Administrative Placement

LEVEL: 11th - 12th grade

COURSE TITLE: Applied Mathematics in Ag

YEAR

DESCRIPTION: See the Agriculture department courses

PREREQUISITE: None

LEVEL: 11th - 12th grade

COURSE TITLE: Math Applications**SEMESTER**

DESCRIPTION: This course is designed to reinforce many of the concepts that are covered on the ACT, PSAT/NMSQT, and SAT. It is recommended for students who wish to improve their exam performance and enhance their potential for success in college math.

PREREQUISITE: None

LEVEL: 11th grade

COURSE TITLE: Statistics**YEAR**

DESCRIPTION: Probability and Statistics courses introduce the study of likely events and the analysis, interpretation, and presentation of quantitative data. Course topics generally include basic probability and statistics: discrete probability theory, odds and probabilities, probability trees, populations and samples, frequency tables, measures of central tendency, and presentation of data (including graphs). Course topics may also include normal distribution and measures of variability.

PREREQUISITE: Algebra II

LEVEL: 11th - 12th grade

COURSE TITLE: Pre-Calculus**YEAR**

DESCRIPTION: Pre-Calculus is offered to students who are interested in a 2 or 4 year degree for careers in engineering, business, and the sciences (College Algebra is required). Topics covered by this course are: limits, differentiation, integration, infinite series, conic sections, vectors, and differential equations. Numerous applications to each subject covered are used to tie in calculus with real life situations.

PREREQUISITES: Algebra 1, Geometry, Algebra II

LEVEL: 11th - 12th grade

COURSE TITLE: Transitional Math QL**YEAR**

DESCRIPTION: This course is designed for:

1. High school seniors who have met their math graduation requirements but may not place into college credit bearing math coursework. Successful completion of this course with a C or higher will place students into an entry level college credit bearing course in the pathway of study. (This course will not place the student into college algebra.)
2. OR High school juniors or seniors that want to take it as their 3rd year math requirement. If this option is used, it will NOT place the student into an entry level college credit bearing course.

This project-based course will apply student's knowledge and skills in numeracy, algebra, statistics, functions and modeling to everyday life and application to work. Students will be expected to interpret their results, justify their answers, communicate their results, assess the reasonableness of their results, collaborate with others, and apply technology to analyze, generate, visualize, and estimate data.

PREREQUISITE: Must have 2 or 3 math credits

GRADE LEVEL: 11th - 12th grade

COURSE TITLE: Calculus**YEAR**

DESCRIPTION: Calculus is offered to students who have previously taken Pre-Calculus and are interested in careers in engineering, advanced business, and the sciences. Topics covered by this course are the same as those covered in Pre-Calculus. Topics will be covered more in depth with an increased awareness of applications.

PREREQUISITE: Pre-Calculus

LEVEL: 12th grade

SCIENCE DEPARTMENT**COURSE TITLE: Astronomy****SEMESTER**

DESCRIPTION: In this course the students have the opportunity to study the solar system, stars, galaxies and interstellar bodies. This course usually introduces and use astronomic instruments and typically explore theories regarding the origin and evolution of the universe, space, and time.

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE TITLE: Biology I

YEAR

DESCRIPTION: In this course the learning process involves a mastery of fundamental biological concepts. The student will be introduced to cell structure and function, genetics, basic biological themes and processes. Relationships will be developed by examining the six kingdoms through examination of specimens and dissection. The student will develop an awareness of the interrelationships of the living organisms and their environmental adaptations. This course is highly recommended for any college bound student. Some dissection is required.

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE TITLE: Ag Biology

YEAR

DESCRIPTION: See the Agriculture department courses

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE TITLE: Biology II

offered 2025-2026

SEMESTER

DESCRIPTION: This course is designed to build upon the fundamental concepts learned in Biology I. The six kingdoms, interrelationships and their effects with emphasis on zoology and botany will be examined in greater detail. Human biology, genetics and DNA will also be applied.

PREREQUISITE: Biology I

LEVEL: 10th - 12th grade

COURSE TITLE: Engineering Technology

SEMESTER or YEAR

DESCRIPTION: The practical application of science and technology to solve real world problems. Subjects such as Electro-Magnetics, Newtonian Physics, climate change, robotics, weather, ground motion, and aerodynamics are samplings of subjects that can be explored and understood through the use of technology that students can build and employ to better understand the topic.

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE TITLE: Forensic Genetics

offered 2025-2026

SEMESTER

DESCRIPTION: This introductory course applies scientific technique to the real world. Students will focus on the importance of observation, experimentation and critical thinking. With the use of physical and life science techniques, students will analyze evidence of simulated crime scenes. DNA and basic genetic principles will be emphasized.

PREREQUISITES: A Life Science or Physical Science class

LEVEL: 10th - 12th grade

COURSE TITLE: Geology

SEMESTER

DESCRIPTION: This course will provide an in-depth study of the forces that formed and continue to affect the earth's surface. Earthquakes, volcanoes, and erosion are examples of topics that are presented.

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE TITLE: Physical Science

YEAR

DESCRIPTION: This course will encompass all the General Science Standards of Scientific Inquiry, and Technological Design. This course will also meet the Physical Science Standards. These standards include: Matter and Energy, Force and Motion; Earth's Structure, Earth's Dynamic Process, atmosphere, and water; and Astronomy. This course, or Preparatory Physical Science, is required.

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE TITLE: Anatomy & Physiology

YEAR

DESCRIPTION: This course uses basic biological concepts gained in Biology I with particular emphasis on human anatomy and physiology. This course is highly recommended to any college bound student preparing for a career in the medical field, nursing, hospital lab work, etc. Students will be introduced to basic chemistry relationships in connection with biological processes. Anatomy is studied from the basic cell up through the organ systems. Physiology is explained for each system so students understand how each part of the system works for the good of the whole organism.

Medical terminology, prefixes, suffixes, and medical disorders are stressed. Dissection is required.

PREREQUISITE: Biology I

LEVEL: 10th - 12th grade

COURSE TITLE: Chemistry I

YEAR

DESCRIPTION: This college-preparatory course is designed to give students an excellent foundation in inorganic chemistry. This course is highly recommended for any college-bound student, for it prepares you to succeed in college chemistry [which can be used as a "weed-out" course]. Students will be introduced to atomic models and chemical shorthand, the tools of chemistry including measurement systems, scientific notation, significant figures, etc., as well as the mole, water solutions and their properties, gases, structure of compounds, electron structure, intermolecular bonding, intermolecular forces, the interaction between heat energy and matter, rates of chemical reactions, and acids and bases. The course relies heavily on mathematical computations, so a background in algebra is required. Most computations can be performed easily on a calculator. Lab exercises prepare students to use scientific equipment and offer "hands on" learning opportunities.

PREREQUISITE: Algebra I

LEVEL: 10th - 12th grade

COURSE TITLE: Adv Chemistry II

YEAR

DESCRIPTION: Chemistry II is a continuation of Chemistry I and introduces concepts of oxidation/reduction reactions, electrochemistry, and more information regarding acids and bases. The course will also develop the concept of chemical equilibrium. Students will also be introduced to basic organic chemistry and nuclear chemistry. Further work will be done regarding kinetics and equilibrium. Calculator with log key necessary.

PREREQUISITE: Chemistry I

LEVEL: 11th - 12th grade

COURSE TITLE: STEM (Science, Technology, Engineering, Mathematics)

YEAR

DESCRIPTION: This course is designed to give our interested and motivated students a broader and firmer understanding of how scientific knowledge is acquired. Beginning with a "Student Research Handbook", we will explore and define the methodologies used in acquiring science. Students will be expected to understand the methods used for researching scientific topics. This knowledge will be accessed through books, class lectures, class discussions, and laboratory work. Work outside the classroom is expected to be performed to meet the expected goals. The lab work will be guided for the first semester and goal oriented for the second term, which simply means the student chooses a topic for research and has to meet specific deadlines in the course of his/her work.

PREREQUISITES: One year of each of a life science and a physical science with a minimum grade of B and concurrent enrollment in Algebra II or higher math class and English III. Students not meeting those requirements will be required to provide letters of recommendation from a math teacher, a science teacher, and an English teacher to be considered for this class.

LEVEL: 11th - 12th grade

COURSE FEE: \$20.00

COURSE TITLE: Physics I

YEAR

DESCRIPTION: Physics is designed to present students with the basic physics concepts and principles that will form a foundation for most studies of science and technology. It is open to juniors and seniors. Since most topics involve problem solving, an understanding of the nature of mathematics and measurement is necessary. Students should have Algebra I prior to enrolling in Physics. More advanced math classes are strongly recommended. Topics covered in this class include motion, sound, and light; and electricity and magnetism.

PREREQUISITE or CONCURRENT: Algebra II

LEVEL: 11th - 12th grade

COURSE TITLE: Physics II

Offered 2025-2026

YEAR

DESCRIPTION: Physics II will be a continuation of Physics I in that we will discuss Physics that has been discovered since 1900. This includes Einstein's Special Theory of Relativity, Early Quantum Theory and Models of the Atom, Quantum Mechanics of Atoms, Molecules and Solids, Nuclear Physics and Radioactivity, Elementary Particles, The Standard Model Theory and recent Developments in Discovery, High Energy Physics, Astrophysics and Cosmology, (including dark matter and dark energy).

PREREQUISITE: Algebra II

LEVEL: 12th grade

COURSE TITLE: Zoology

SEMESTER

DESCRIPTION: Zoology is a taxonomy class that will look at the large kingdom Animals. The course will begin with students working on sponges and ending with mammals. This is a lecture-based class with many hands-on activities, including dissections.

PREREQUISITE: Biology

LEVEL: 11th- 12th

SOCIAL STUDIES DEPARTMENT

COURSE TITLE: Social Problems

Offered 2025-2026

SEMESTER

DESCRIPTION: This course is designed to focus students on the problems that face our society. This course will cover current social problems that affect America as well as the world. This course is student driven and requires a wide base of knowledge, critical thinking, research, and class participation. It will provide an introduction to sociology through an in-depth study of major social problems; explores the policy implications of the general sociological perspective and of sociological knowledge of particular problems. Problems include population, drug use, science and technology, and poverty.

PREREQUISITE: None

LEVEL: 9th - 12th grade

TEXTBOOK: None

****Note: This course is a combination of Social Issues and Current Events.*

COURSE TITLE: Ancient History

SEMESTER

DESCRIPTION: This course deals with the development of civilization from prehistoric times to the fall of Rome. Course emphasis is placed on the development of institutions such as government, religion, philosophy, technological change, and the arts. Also, this course will emphasize cross-culture interactions between ancient societies, resulting in a broad knowledge of how cultures interacted with one another.

PREREQUISITE: None

LEVEL: 9th - 12th grade

TEXTBOOK: World History (1st Half)

COURSE TITLE: Medieval History

SEMESTER

DESCRIPTION: This course deals with the development of civilizations in modern times. Course emphasis is placed on the development of institutions such as government, religion, philosophy, technological change, and the arts. A major portion of the semester will be devoted to the ideas of the Reformation and the Renaissance and expansion into the Western world.

PREREQUISITE: None

LEVEL: 9th - 12th grade

TEXTBOOK: World History (2nd Half)

*** Note: Ancient and Medieval History are a division of World History.*

COURSE TITLE: 20th Century World History

SEMESTER

DESCRIPTION: This course begins with the 1st World War and continues through modern times. It will focus on the developments in world history during the 20th century from a non-American perspective. Emphasis will be placed on the impact of religion, government, and technological change in the modern world.

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE TITLE: American History through Film

SEMESTER

DESCRIPTION: Course will provide a broad overview of American history using films to examine and discuss important eras, people and events. This is not an eat popcorn and watch movies class. Each film will consist of 6 to 8 days of class work. This class work will be divided into three different areas. The first area will be the introduction. At this point we will introduce the time period and topic that the film focuses on. The second area will be the actual watching of the film with discussion. The third and final area will be the post work, which may include discussion questions, work sheets, film reviews and/or essays.

PREREQUISITE: None

LEVEL: 10th - 12th grade

COURSE TITLE: Conspiracy Theories in History

SEMESTER

DESCRIPTION: This course is designed to explore the theories in history that have forced debates by historians all around the world. Emphasis will be placed on events that can be approached from multiple perspectives. This class will include such interesting topics as John Fitzgerald Kennedy's assassination, Adolf Hitler's alleged escape to Argentina, and many others. Debate, research projects, and classroom discussions are a major focus of the class.

PREREQUISITE: None

LEVEL: 9th -12th grade

COURSE TITLE: American History I (required for Juniors)

YEAR

DESCRIPTION: The emphasis of this course in American History will be on those persons, events, values, and principles that have helped shape contemporary American character and society.

PREREQUISITE: None

LEVEL: 11th grade

COURSE TITLE: AP US History

YEAR

DESCRIPTION: Students will develop the analytical skills and enduring understandings necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. This course will help provide the skills necessary to arrive at conclusions on the basis of an informed

judgment and to present reasons and evidence clearly and persuasively in an essay format. There will be summer course work, which must be completed prior to the beginning of the student's junior year.

PREREQUISITE: Consent of Instructor

LEVEL: 11th grade

COURSE TITLE: Government (required for Seniors)

SEMESTER

DESCRIPTION: This course includes the study of the state and federal government. It will emphasize the purpose and exercise of democratic government.

PREREQUISITE: None

LEVEL: 12th grade

COURSE TITLE: Illinois History

offered 2024-2025

SEMESTER

DESCRIPTION: This course will study the political, economic, and cultural development of the state. Special emphasis will be placed on local areas of the state.

PREREQUISITE: None

LEVEL: 10th - 12th grade

COURSE TITLE: American Sports History

SEMESTER

This class will examine the development of sports throughout American History. It will focus on helping students gain a better understanding of the inter-relationship that sport has with social, economic, cultural and political forces that are at work in the United States as well as the world. Additionally, an examination of gender, race, ethnicity and social class will be emphasized through readings, primary sources, audio and visual materials as well as class discussion.

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE TITLE: World Geography

SEMESTER OR YEAR

DESCRIPTION: **World Geography I-1** begins with an introduction to the major themes of geography, including location, place, human environment interaction, movement, and regions, and the skills necessary to apply these themes to the world. The course concludes with a study of the Western Hemisphere, its geography, climate, politics, and culture. **World Geography I-2** continues the study of the five themes of Geography I, focusing on the geography, climate, politics, and cultures of the Eastern Hemisphere.

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE TITLE: Economics

SEMESTER

DESCRIPTION: This course is an introduction to the concepts of micro and macroeconomics. This course looks at the reason for economic systems, how they function, and compares America's to that of other countries in the world.

PREREQUISITE: None

LEVEL: 10th - 12th grade

COURSE TITLE: Psychology I, II

Offered 2024-2025

SEMESTER OR YEAR

DESCRIPTION: This course introduces students to the study of behavior and the mind. During the course of the class students will learn of the history of Psychology, along with its research methods. Other topics covered will be: behavior, the brain, thinking, and the effects of drugs and alcohol on the brain. Intelligence, emotions, and abnormal behavior will also be covered. Students make take either Psychology I or Psychology II or both semesters of Psychology.

PREREQUISITE: None

LEVEL: 11th - 12th grade

TEXTBOOK: Psychology: Themes and Variations by Wayne Weiten

PHYSICAL EDUCATION

(4 YEARS REQUIRED)

COURSE TITLE: Physical Education

YEAR

DESCRIPTION: Physical education is a required class of all students for four years. The physical education curriculum includes a variety of team and individual sports and dance. During the first semester, conditioning, golf, and co-ed co-recreation [badminton, shuffleboard, darts, ping pong] are emphasized. The second semester units consist of co-ed square/country dancing, archery, softball, and tennis. Other activities interspersed throughout the year are speedaway, flag football, volleyball, lacrosse, handball, floor hockey, devil's triangle, horseshoes, etc.

PREREQUISITE: None

LEVEL: 9th - 12th grade

COURSE TITLE: Weightlifting

YEAR

DESCRIPTION: This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the basic fundamentals of weight training, strength training, aerobic training and overall fitness training and conditioning. Must complete freshmen year PE with a B or better or have teacher consent.

PREREQUISITE: None

LEVEL: 10th - 12th grade

MISCELLANEOUS COURSES

COURSE TITLE: Driver Education (required)

SEMESTER

DESCRIPTION: This course consists of two parts: A minimum of thirty hours of classroom instruction and six hours of behind the wheel driving instruction. The classroom phase will introduce the student to the necessary mental skills and concepts of safe driving. The behind the wheel phase will introduce the student to the physical skills for safe driving. The student must be at least 15 years of age by September 1st, of their sophomore year and must have a social security number. Students may not miss more than 5 days of instruction or will be dropped from the class. This class is also open to freshmen that are 15 years of age as of January 31 of the second semester.

PREREQUISITE: Student must pass a minimum of 8 classes during the previous two semesters

LEVEL: 9th - 10th grade

COURSE TITLE: Health (required)

SEMESTER

DESCRIPTION: Health education is a co-educational class taught on a semester basis. It is required by the State of Illinois of all students. The major objective of the course is to teach students the value of a healthy lifestyle. Specific units of instruction include: nutrition and weight control, physical fitness and exercise, human body systems, mental health, first aid and CPR, diseases, environmental health, consumer health, drug and alcohol use and abuse, and human sexuality.

PREREQUISITE: None

LEVEL: 10th - 12th grade

COURSE TITLE: Office Aide

SEMESTER OR YEAR

DESCRIPTION: A student may volunteer to give up his/her one period during the day to serve as an aide to the office staff. This must be approved through the office administration. Credit may be given for this service, and student is expected to report to the area designated by his/her mentor each day.

PREREQUISITE: None

LEVEL: 12th grade

COURSE TITLE: Sauk Valley College Dual Credit Courses

YEAR

DESCRIPTION: Any junior or senior will be allowed to enroll at Sauk Valley College and receive credit on both their Amboy transcript and college transcript. This option is available for both semesters of their senior year and during the summer proceeding their senior year. See the handbook for full details and requirements of this option. *Two classes must be taken per semester, and ENG 101/103 must be taken during 1st year.*

LEVEL: 11th - 12th grade

COURSE FEE:

COURSE TITLE: Whiteside Area Career Center

YEAR

DESCRIPTION: Students during their junior or senior year may choose to attend the career center and pursue one of many programs offered there. This option will take the place of four regular electives. 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.

LEVEL: 11th - 12th grade

COURSE FEE: Expected fee for this program is \$100.

Following is a listing of WACC Courses and Descriptions

****Descriptions updated by WACC as of 3/22.**

COURSE TITLE: Allied Health

5 Dual Credits with SVCC: 3 credits for Medical Terminology (NRS116)

DESCRIPTION: Allied Health is a 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.

POTENTIAL PHLEBOTOMY CERTIFICATION PREREQUISITE: Students will be required to participate in an internship two days per week first semester. Therefore, a student who enrolls in Allied Health that is not a C.N.A. 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, to include proof of COVID vaccination as required.

COURSE TITLE: Automotive Technology

2 Dual Credits with Highland Community College in AUTM 138

DESCRIPTION: Automotive Technology is a 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.

PREREQUISITE: Students who enroll in Auto Service 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 Auto Service II must have a valid Illinois Driver's license.

RECOMMENDED STUDENT CRITERIA: Students enrolled in Auto Services 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.

COURSE TITLE: Building & Construction Trades

6 Dual Credits with Highland Community College: 3 credits for MTEC 240 and 3 credits for MTEC 245

DESCRIPTION: Building & Construction Trades is a 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. Instruction will include safety principles, framing, plumbing, wiring, roofing, installing insulation, dry wall, pouring concrete, landscaping, estimating materials, blueprint reading, hanging cabinets, siding, hanging doors, heating and air conditioning, masonry, and finish work. Second year students are provided the opportunity to advance their skills 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.

COURSE TITLE: CEO (Creating Entrepreneurial Opportunities)

3 Dual Credits with SVCC: BUS 270 Topics/Issues in Business

DESCRIPTION: CEO (Creating Entrepreneurial Opportunities) is a 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.

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.

COURSE TITLE: Computer Technology

15 Dual Credits with SVCC possible: 3 credits each for CIS167, CIS 151, CIS 250 CIS 123, and CIS 197

3 Dual Credits with Kishwaukee College possible: Desktop Pro Plus (TestOut)

DESCRIPTION: Computer Technology is a one-or-two year program offered to juniors and seniors who want to work with repair, networking, configuring operating systems, programming, Microsoft software, and application development. Qualified students will acquire the skills to potentially pass the Test Out and Linux+ certifications. All first year students will start with the CIS167 core class. In addition, the course introduces students to the formal concepts of object-oriented programming including program design, control structures, data structures and algorithms using JavaScript and other programming languages. JavaScript may also be taken as a semester long dual credit course for 3 credits.

RECOMMENDED STUDENT CRITERIA: Students enrolled in Computer Technology will be required to stand, stoop, kneel, crouch and reach while performing typical computer repair work; have hand-eye coordination; handle or feel objects, tools or controls; lift and/or move objects and materials of up to 50 pounds in weight.

COURSE TITLE: Cosmetology

DESCRIPTION: Cosmetology is a one-year program open to 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 part time program, students will earn up to 200 of the 1500 hours necessary to complete the program. Financial incentives are available for students who chose to return to Educators of Beauty upon graduation.

COURSE TITLE: Criminal Justice

No dual credit available.

DESCRIPTION: Criminal Justice is a 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.

COURSE DESCRIPTION: Culinary Arts

Dual credits pending with Kishwaukee College

DESCRIPTION: Culinary Arts is a 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, and nutrition. Students in this program will receive weekly hands-on experience in the WACC commercial kitchen and provide food services for the public. Food Service Sanitation Management Certification will be given to 2nd year students.

RECOMMENDED 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.

COURSE TITLE: Digital Media Arts

24 Dual Credits possible with SVCC: ART 100-Media Arts, ART 103-Digital Photography, ART 105-Motion Graphics, ART 107- Digital Drawing, ART 230-Graphic Design I, ART 231 – Graphic Design II, ART 236-Film and Video, ART 237-Image and Sound Recording, ART 238-Interactive Media Design, ART 299-Topics and Issues (3 credits per course)

DESCRIPTION: Digital Media Arts is a one to two year program offered to juniors and seniors. The classes are for visual and creative thinkers as well as computer geeks interested in cutting edge digital and media arts. The program offers the latest trends, techniques and technologies in the ever-evolving multimedia field. The wide variety of the curriculum provides opportunities to build skills for future success in careers as an illustrator, desktop publisher, photographer, graphic artist, digital video editor, studio staging director, film maker, computer animator, sound engineer, camera operator, web designer or other positions in the exciting and growing recording, entertainment and digital media arts and communications field. Students work at their own pace and get “hands-on” experience using state-of-the-art software, cameras,

lighting, special effects, sound and broadcasting equipment. All classes begin each fall and spring semester and students take two classes per semester. Students completing a selection of eight classes (the equivalent of two years at WACC), will receive a Certificate in Graphic Design from Sauk Valley Community College. Students not able to complete the certificate requirements while attending WACC are invited to enroll at Sauk Valley Community College after high school to finish the certificate requirements if they so choose. Qualifying WACC students may earn up to 24 college credits taking the Digital Media Arts class.

COURSE TITLE: Early Childhood Education

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

1 Dual Credits available with SVCC for 2nd year students – EDU276

DESCRIPTION: Early Childhood Education is a 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)

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.

COURSE TITLE: Health Occupations-CNA

8 Dual Credits with SVCC: 4 credits for NRS101, 4 credits for NRS103

DESCRIPTION: Health Occupations-CNA is a one-year program offered to junior and senior students that 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. 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.

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 relative to COVID mitigation, to include proof of COVID vaccination as required. 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.

COURSE TITLE: Welding, Machining and Manufacturing Technology

2 Dual Credits with SVCC: WELD 106; 3 credits with HCC: DRAF 105, and 3 credits for MTEC151 for Welding 2 students

DESCRIPTION: Welding, Machining and Manufacturing Technology is a 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

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)
- Inventor - Computer aided drafting program
- Product design and development
- Internship at manufacturing site

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 the second semester. Therefore, students that enroll in Welding 2 must be able to transport him or herself to various internship sites.

**WACC COURSE
MATERIALS AND FEES 2023-2024**

COURSE	DESCRIPTION	Fee Paid to WACC	Other Expense Pd. by Student
ALLIED HEALTH	<p><u>CNA Students:</u> Medical Terminology Book Phlebotomy Coursework CPT Exam (Phlebotomy Certification Exam) Flu Shot (Free with some insurance plans) Annual TB Test (Low SES - Free) Name Badge</p> <p style="text-align: right;">Total for CNA Students</p> <p><u>Non-CNA Students:</u> Medical Terminology Book Phlebotomy Coursework CPT Exam (Phlebotomy Certification Exam) CPR and First Aid Name Badge WACC Patch Annual 2-step TB Test (Low SES - Free) Flu Shot (Free withome insurance plans) Uniform - scrub top and pants</p> <p style="text-align: right;">Total for Non-CNA Students:</p> <p>Additional Required Purchases - purchase on own: All White Shoes and watch with a second hand</p>	<p>\$85.00 \$75.00 \$7.00 \$167.00</p> <p>\$85.00 \$75.00 \$5.00 \$7.00 \$8.00 \$180.00</p>	<p>\$125.00 \$25.00 \$25-50 \$175-200</p> <p>\$125.00 \$25-50 \$25.00 \$30-50 \$205-250</p>
	AUTOMOTIVE TECH I & II	Safety glasses	
BUILDING TRADES I & II	<p>Required for all students: 25' tape measure, hammer, speed square, retractable knife, nail pouch, nail set, chalk line, 4-in-1 screwdriver, mini flat bar, safety glasses. Additional Required purchase: Cold weather clothing, work boots.</p>		\$50-90 approx.

EARLY CHILDHOOD EDUCATION	CPR and First Aid	\$20.00	
	Total for ECE		\$20.00
COMPUTER TECHNOLOGY	Required for all students: Headphones or earbuds Optional Certification Tests: A+ Certification Test (2 tests in total) Network+ Certification Test Security+ Certification Test CYSA+ Certification Test (After Passing Security+. For advanced students) Recommended for all students: USB Drive		\$2-10 approx. \$218.00 \$168.00 \$247.00 \$247.00 \$3-10 approx.
COSMETOLOGY	Lab fee (paid to Educator's of Beauty)		\$150.00
CULINARY ARTS	1st Yr.: Food Worker Card 2nd Yr.: Food Service Sanitation Management Certificate	\$15.00 \$153.00	
DIGITAL MEDIA ARTS	Required for all students: Headphones or earbuds Required of Photography students: Prints Required of Graphic Design students: Prints, T-shirt screen Recommended for all students: USB drive		varies varies varies varies
HEALTH OCCUPATIONS	WACC patch Nursing Assistant Textbook Nursing Assistant Workbook CPR/First Aid Plastic Name Badge State Test Criminal Background Check Uniform TB Test (2 Step) Flu Shot (Free with some insurance plans)	\$8.00 \$60.00 \$15.00 \$5.00 \$7.00 \$75.00 \$40.00	
		\$210.00	

	<p>Additional Required Purchases - purchase on own: All White Shoes and watch with a second hand</p>		<p>\$30-50 \$25-80 \$25.00 \$80-130</p>
WELDING	<p>Required for all students: USB drive, safety glasses, tape measure, pliers, welding hood, welding gloves, long sleeved shirt or shop coat Optional Recommended Purchases: Allen wrench set, 1" micrometer, 6" verial dial or digital caliper</p>		<p>varies varies</p>

Home schools may require separate fees for attending WACC.

da:FY23 Course Fees

SPECIAL EDUCATION

*ENROLLMENT IN SPECIAL EDUCATION CLASSES WILL BE BASED ON INDIVIDUAL EDUCATION PLAN.

COURSE TITLE: Reading Essentials

SEMESTER

DESCRIPTION: The purpose of this course is intended to help students improve their reading skills. Diagnostic testing is used to determine student strengths and weaknesses. Word attack, vocabulary development, comprehension strategies, instruction in fluency, and study skills are emphasized in this class. Course placement based on test scores and /or teacher recommendation.

PREREQUISITE: None

LEVEL: 9th -12th grade

COURSE TITLE: Modified English I

DESCRIPTION: This course will strengthen the student's ability to read, write, listen, and speak properly. Writing skills of proper sentences and paragraphs will be covered along with vocabulary and spelling exercises. Reading comprehension and oral reading exercises will be given to improve the student's reading and speaking abilities. Note taking, listening, and outlining skills will be covered to assist the student in other subject areas. Short stories by classical writers and renowned poets are introduced in literature.

COURSE TITLE: Modified English II

DESCRIPTION: This course will review the essential skills from English I and will coincide with the student's individual needs. Developing the student's ability to write properly and to comprehend reading material is the main part of this class. Depending on the student's individual level, writing and reading skills will be improved upon, along with other related projects.

COURSE TITLE: Modified English III

DESCRIPTION: A junior level course to improve writing, reading, speaking, listening skills. Vocabulary skills, both oral and written, will be stressed. Study skills and functional English will be taught.

COURSE TITLE: Modified English IV

DESCRIPTION: A senior level course to improve writing, reading, speaking, and listening skills through literature selections. Vocabulary skills will continue to be stressed. Preparing various job-related forms, as well as preparation for job interviews will be studied. Each senior will prepare career exploration unit and portfolio.

COURSE TITLE: Modified Reading

SEMESTER

DESCRIPTION: This course emphasizes functional reading skills. Those skills will include recall, main idea, prediction, fact/opinion, inference, newspaper reading, forms and applications and vocabulary building. During the semester, the student will be responsible for independent and group reading.

COURSE TITLE: Modified Math I

DESCRIPTION: This course will cover the basics of addition, subtraction, multiplication, and division. Fractions, percents, word problems, and money management problems, which will be related to the student's everyday life, are covered in this course.

COURSE TITLE: Modified Math II

DESCRIPTION: This course is a continuation of Math I. The course covers practical and functional math skills: budgeting, sales tax, order forms, checking accounts, map and graph reading, and home maintenance. There will be some basic algebra and geometry. The student works with a calculator a great deal of this class.

COURSE TITLE: Modified Math III

DESCRIPTION: This course is a continuation of Math II. The course continues to build on and practice skills acquired in Math I and II. Usage and accuracy, in real-life situations, and on forms is stressed as well as preparation for ACT/PSAE tests. Calculations are done by hand and also with calculators.

COURSE TITLE: Consumer Math

DESCRIPTION: Consumer Math courses reinforce general math topics (such as arithmetic using rational numbers, measurement, ratio and proportion, and basic statistics) and apply these skills to consumer problems and situations. Applications typically include budgeting, taxation, credit, banking services, insurance, buying and selling products and services, home and/or car ownership and rental, managing personal income, and investment.

COURSE TITLE: Modified Physical Science

DESCRIPTION: This course will provide the student with the knowledge of basic physics and some chemistry in the student's everyday life. The physics section will cover energy, force, motion, sound, light, electricity, and magnets. Elements, atoms, compounds, chemical reactions, and acids and bases are covered in the chemistry section. There will be some lab experiments to coincide with the material being presented.

COURSE TITLE: Modified Biology

DESCRIPTION: This course covers the basic concepts of biology. The course discusses the biosphere, the cell, plants, animals, the human body and our environment. There will be some lab experiments to coincide with the material being presented.

COURSE TITLE: Modified Geography

DESCRIPTION: This course covers physical geography and the economic, political, social, historical, and cultural aspects of each region. The student will learn how each region relates to him/her.

COURSE TITLE: Modified Current Events

DESCRIPTION: This course is designed to focus students on the current events in their world each day. They will compare and contrast different events in different parts of the world. Students will learn about different news arenas and how perspectives differ.

COURSE TITLE: Modified American History I

DESCRIPTION: This course is designed for juniors/seniors and is required before taking U.S. Government. The student will learn how the United States was formed and developed, in chronological order from its social, political and economical aspects. This course will satisfy both the State of Illinois and Amboy High School's requirement for graduation.

COURSE TITLE: Modified American History II

SEMESTER

DESCRIPTION: This course is a continuation of United States History I. The focus will include the United States' involvement in World Wars and other events that have involved the United States.

COURSE TITLE: Modified Government

SEMESTER

DESCRIPTION: This course is offered senior year, after taking U. S. History. The course will satisfy the State of Illinois Constitution requirement and is required for graduation. The student will learn how local, state, and the Federal government works.

COURSE TITLE: Co-op Step Work

YEAR

DESCRIPTION: Amboy's Special Education Department in collaboration with the STEP Work Study Program have developed the Co-op Step Work Course. This course will help eligible students explore career or job-related interests in a hands-on setting. Students will have an opportunity to learn valuable job skill training both inside and outside the classroom.

PREREQUISITE: Application, interview, good attendance from the previous year, and good credit standing toward graduation requirements.

CREDIT: .5 credit for 1 class period

LEVEL: 11th-12th

COURSE TITLE: Modified Life Skills

DESCRIPTION: Life Skills is designed to increase student knowledge and skills necessary for everyday living. The course emphasizes goal-setting, decision making and problem solving, communication, healthy lifestyles and relationships, nutrition, personal safety, citizenship and consumerism.

COURSE TITLE: Modified Study Skills

SEMESTER

DESCRIPTION: This course is designed to improve a student's study skills; through an emphasis on organization, personal responsibility and planning. The student planner will be used daily, along with weekly time lines, and activities to reinforce good study habits and homework completion.

COURSE TITLE: Consumer Skills

SEMESTER

DESCRIPTION: A semester course with the purpose of enhancing student knowledge of everyday consumer skills. Students will study economics, taxes, budgets, banking, credit, and buying a car/home. Students will engage in projects designed to introduce them to real world problems and events, such as paying bills and maintaining a budget. This course meets the state requirement for consumer education.