

## GRADE 12—COURSE DESCRIPTIONS FOR THE 2020-2021 SCHOOL YEAR

### Accounting I Transcribed Credit-

Credits: 1/2

Elective

Semester

No prerequisite

Class Focus: 11-12

YOU NEED THIS CLASS if you are thinking about going to college for business or marketing. Accounting introduces students to the basic concepts and terms of accounting. This course prepares the learner to analyze record, summarize and interpret accounting information. This course focuses on business transactions, financial statements, merchandising business transactions, special journals, internal controls, receivables and plant assets. The learner will prepare accounting transactions for a practice set, including month end transactions and preparation of the financial statements. Students can choose to take this course for CVTC transcribed credit. Students that choose to do this will be required to do more rigorous activities to meet the CVTC requirements for the credits.

### Advanced Algebra

Credits: 1

Elective

Year

Class Focus: 11-12

**This course is required for four-year college admission.**

Students will be introduced to and apply in realistic problems the following topics: functions, sequences, exponential functions, parabolas, cubics, and other parent graphs, linear systems, logarithms and other inverses, polynomials and general systems, probability, and trigonometric functions. Graphing calculators used extensively.

### Agri-Science I

Credits: 1/2

Elective

Semester

Class focus: 9 – 12

**May be used as a science .5 credit**

Agriculture is still a major employer in the United States, with 19% of the work force employed in Agri-science careers. This course is an introduction to Agri-science. Topics covered will be; “What is Agri-science?” and its importance to society. A soil science unit will be covered with students developing a soil and water management plan for a tract of land. A unit on leadership will also be covered in which we will learn basic parliamentary procedure.

### Ag Electricity

Credits: 1/2

Elective

Semester

Class Focus: 11 - 12

In this course students will learn about the principals of electricity, such as Ohms law, ac current and dc current. Students will study materials and the selection of materials used in the electrical industry. Building wiring and simple electrical circuits will be covered. Students will complete projects that will include wiring mockups, wiring light and receptacle circuits. Electrical safety will be covered as well.

### **Ag Machining**

Credits: 1/2

Elective

Semester

Class Focus: 9-12

In this course students will study the five basic machining operations drilling, turning, milling, grinding and shaping. Students will learn precision measurement with micrometer and calipers. Student projects will be constructed mainly in the machine shop area using milling machines and lathes. Safety glasses required.

### **Ag Metals**

Credits: 1/2

Elective

Semester

Class Focus: 9 - 12

This course is an introduction to metal processing technology. Students will study shop safety, hand tool use and identification, steelmaking process, and precision layout. Projects will be constructed in the areas of bench metal working, metal forging, and sheet metal working. Safety will be stressed and students are required to supply safety glasses and leather gloves.

### **Ag Welding I/II**

Credits: 1/2

Elective

Semester

Class Focus: 9-12

This course is designed to instruct students on basic welding theory, processes, and equipment operation for light-duty welding. Students will learn and perform SMAW or "stick welding," GMAW or "wire-feed," and oxy/fuel "torch" welding. Students will use various metal cutting machines to prepare metal for welding. Safety glasses and leather welding gloves are required. **Course Enrollment capped at 16. Seniors to freshmen will be the enrollment process.**

### **Ag Woods I**

Credits: 1/2

Elective

Semester

Class Focus: 9 - 12

This is a class for students who want to explore woodworking and wish to enhance their skills and challenge themselves. Students will learn how to properly machine lumber by using power tool such as jointers, planers, band saws and table saws. Required and elective projects will be made. As students advance, they will focus on learning the terminology necessary to use power tools successfully, developing skills to safely use these tools in the workshop and becoming familiar with various kinds of wood-finishing materials. Students will learn project layout, prepare bill of materials, cut lists, assembly, and finish techniques. Safety glasses required. Material Fees may be required.

**Course Enrollment capped at 16. Seniors to freshmen will be the enrollment process.**

### **Ag Woods II**

Credits: 1/2

Elective

Semester

### **Prerequisite Ag Woods I**

Class Focus: 10 - 12

This class is for the student who wishes to advance their wood working skills. Students will learn advanced techniques and will apply them to individually planned projects. Student will be responsible for wood costs incurred in their projects. Safety glasses required. **Material Fees may be required.**

### **Art I-Foundations**

Credits: 1\2

Elective

Semester

Class Focus: 9 - 12

Students will learn the correct techniques needed to improve personal standards in drawing, painting, and ceramics. We will study contour, gesture, and perspective techniques in a variety of media including graphite, ink, pastel and colored pencil. Students will learn how to properly mix colors in preparation for Art II.

### **Art II-Color Study**

Credits: 1/2

Elective

Semester

Class Focus: 9 - 12

Students will study color in a variety of mediums such as tempera and acrylic paint, color pencil, pastel and oil pastel. We will study color schemes and work extensively with the color wheel. Students will learn how to use colors in a complimentary fashion while mixing separate mediums together to create balanced and unified art. We will study specific artists and learn how they used color and style to tell the story of their paintings.

### **Band**

Credits: 1

Elective

Year

Class Focus: 9-12

General Band course develops students' technique for playing brass, percussion and woodwind instruments and covers a variety of non-specified band literature styles (concert, marching, orchestral and modern styles)

### **Chemistry II**

Credits: 1

Elective

Year

Prerequisite: Chemistry 1

Class Focus: 11 & 12

This course is designed for those students pursuing further education at the technical or college level, especially those pursuing careers in a science related field such as nursing, medical technology, chemical analyst, etc. This course is intended to give the student an exposure to the lab skills, study skills and knowledge required of a student entering chemistry at the college level.

### **Chorus**

Credits: 1

Elective

Year

Class Focus: 9-12

Chorus course provides students the opportunity to sing a variety of choral literature styles for men's and/or women's voices and are designed to develop choral techniques and the ability to sing parts.

### **Cross Training**

Credit: ½

Elective

Semester

Class Focus: 11-12

This class is a fitness based class that will be focusing on enhancing fitness using a variety of fitness styles and workout routines. The idea is to prepare students to engage in activities to help improve all 5 health-related fitness domains and prepare them to be active and fit outside the school setting. The units include: Power walking, Yoga and Pilates, Biking, Kickboxing, Dance/Aerobic exercise, circuit training/cross fit, other media workout routines (insanity, Tae Bow, etc.)

### **English 12 (online through eSucceed)**

Credit: 1

**Required**

Year

Class Focus: 12

### **Graphic Design I**

Credit: 1/2

Elective

Semester

Class Focus: 9 - 12

Course is designed to allow students to utilize visual art skills acquired through previous introductory art class instruction. Various methods are used to create and combine words, symbols, and images to create a visual representation of ideas and messages. Students will experiment with page layout, logo and product design. We will also study typography (fonts) and how they interact with each other.

### **Greenhouse Management**

Credits: 1/2

Elective

Semester

Prerequisite: Horticulture is recommended

Class Focus: 12

This course will teach proper greenhouse management techniques with an emphasis on developing work based skills in students. Students will learn all aspects of proper greenhouse management including seed starting, transplanting, fertilizing, container selection and design, media types, and environmental controls. Students will be responsible for managing the school greenhouse and conducting a bedding plant sale from planting to marketing. Students will spend much time in the greenhouse completing hands on activities.

### **Horticulture-- Transcribed Credit**

Credits: 1/2

Elective

Semester

**May be used as a science .5 credit**

Class Focus: 12

This course will cover topics about horticulture. Plant terminology, parts, functions and why horticulture is such a growing industry. Students will use their knowledge to grow things in the greenhouse and help with the poinsettia sale towards the end of the semester. Students can choose to take this course for CVTC transcribed credit. Students that choose to do this will be required to do more rigorous activities to meet the CVTC requirements for the credits.

### **Human Anatomy and Physiology**

Credits: 1

Elective

Year

Class Focus: 10- 12

The class should be taken by anyone who is planning on entering a health care field or who is going to college. Topics covered in this class include: basic chemistry, cellular biology, tissue study, skin, systems of the human body including muscular, skeletal, nervous, digestive, endocrine, circulatory, respiratory, and reproductive.

### **Indoor Physical Education-Team**

Credit: 1/2

Elective

Semester

Class Focus: 11-12

This course is designed for individual and team activities that encourage a lifetime of fitness, sportsmanship, sport skill development, teamwork and activity through enjoyment in leisure sport. Examples of activities include: Badminton, Pickle Ball, Indoor Soccer, Basketball, Ping Pong, Floor Hockey , Team Handball, Volleyball, Dodgeball Games.

### **Industrial Design**

Credit: 1/2

Elective

Semester

Class Focus: 9 - 12

Students will review and create architectural and automotive designs. Students will use the principals of basic drafting as well as computer aided drafting to design industrial structures. Blue print reading, historical perspective, and multiple design elements will be emphasized. This would be the perfect course for students interested in construction, fabrication, engineering, and manufacturing.

### **Innovative Business Mindset**

### **Transcribed Credit**

Credits: ½

Elective

Semester

Class Focus: 10- 12

In this course, students will define the traits and mindset of entrepreneurs. Students will use tools to determine their personal entrepreneurial traits. Students will examine a variety of entrepreneurial companies (small, social, and global.) Students will understand the difference between entrepreneurs and entrepreneurs. Students will evaluate existing business plans.

## Math for Technical Trades (New Offering) Transcribed Credit

Credits: 1

Elective

Year

Class Focus: 11-12

This course will study how technicians use arithmetic and algebra as problem solving tools. Topics include arithmetic skills with integers, decimals, and fractions. Algebraic skills involving equations, word problems, percents, and technical formulas will focus on the needs of the students' professional studies.

## Outdoor Physical Education

Credit: 1/2

Elective

Semester

Class Focus: 11-12

This class provides an excellent way for students to learn necessary skills and fitness components to participate in an array of physical activities geared for the outdoors. Students will learn aspects of physical fitness and sports components and skills. Units covered: Frisbee Golf, Ultimate Frisbee, Croquet, Power Walking, Outdoor Yard Games, Golf ), Hiking/Orienteering, Geocaching, Winter survival and Sculpture. Other sports possibilities include Soccer, Speedball, Football, Tennis, Track and Field. **We will be going outside for all activities (anything above 0 degrees) so students should wear clothes that are appropriate for the cold and snowy weather.**

## Principles of Management Transcribed Credit-

Credits: 1/2

Elective

Semester

Prerequisite:

Class Focus: 10 - 12.

YOU NEED THIS CLASS if you are thinking about going to college for business or marketing. Students will learn business leadership. Areas of study will include planning, organizational structure, leadership styles, and effects of decision making. Students can choose to take this course for CVTC transcribed credit. Students that choose to do this will be required to do more rigorous activities to meet the CVTC requirements for the credits.

## Principles of Marketing Transcribed Credit-

Credits: 1/2

Elective

Semester

No Prerequisite

Class Focus: 10-12

Marketing is a basic introduction to the scope and importance of marketing in the global economy. Lessons will relate to advertising/promotion/selling, distribution, financing, marketing-information management, pricing, and product/service management. Students can choose to take this course for CVTC transcribed credit. Students that choose to do this will be required to do more rigorous activities to meet the CVTC requirements for the credits.

## Small Engines I & II

Credits: 1/2

Elective

Semester

Class Focus: 11 - 12

This course is designed to develop a basic understanding of 2 and 4 cycle engine theory and operation. Topics

covered will be small engine part identification, engine construction, fuel systems, carb systems, ignition systems, lubrication systems and cooling systems. Students will also learn to use and identify tools and measuring instruments used in small engine maintenance and repair. Students will spend time in the shop disassembling and reassembling a 5 hp Briggs and Stratton engine. Safety glass required.

### **Sports and Entertainment Marketing**

Credits: ½

Elective

Semester

Class Focus: 9-12

In Sports and Entertainment Marketing, you will develop a fundamental knowledge of marketing that relates sports and entertainment industries, and career possibilities available in the industries. You will also develop the necessary entry skills for a career in the sports and entertainment fields. Sports & Entertainment Marketing is a course designed to teach marketing concepts through (applied to) the sports and entertainment industry. Marketing is a tool that has allowed the U.S. economy to become highly successful internationally. The basic functions of marketing product/service management, distribution, selling, marketing information management, financing, pricing, and promotion will be covered. In addition to marketing overview, this course is designed to show how advertising, sales, and event marketing and communications are important.

### **Sports Theory**

Credits: ½

Elective

Semester

Class Focus: 10-12

This class is designed for 10-12th graders looking to expand their knowledge of a variety of sports. Potential units: Types of Sports, Sport Creation, the history of sports and the Olympics, sportsmanship, professional sports vs. society, Sport Psychology, how to officiate of a variety of sports, successful coaching philosophies, and basic principles in athletic training.

### **Street Law**

Credits: 1/2

Elective

Semester

Grades 10-12

Description

Street Law is a semester-long social studies elective that serves as an introductory course to law and legal systems in the United States. Street Law will focus on our national, state and local legal systems. The content will be conveyed in a practical format to allow students to gain the knowledge necessary to survive in our law-saturated society. Students will engage in the study of criminal, civil, contract and family law in the classroom and in the community. A strong emphasis will be placed on written work in the form of case studies and mock trials. We will touch on broad and specific legal topics to give students a better understanding of law and how it affects you in real life.

### **Weight Training and Conditioning**

Credit: ½

Elective

Semester

No Prerequisite

Class Focus: 9-12

Course provides an emphasis on free weights, Olympic lifting, multiple joint movements and plyometric work including auxiliary lifts and circuit programs. Participants will also perform lateral agility, speed, jumping, and flexibility workouts.

### **World Studies II**

Credits: 1/2

Elective

Semester

Class Focus: 10-12

World Studies is an in depth World History course. We will be examining major periods of change and development throughout history. This survey course will cover the Enlightenment Period to modern times. We will study both the physical and economic geography as influenced by political and human interaction. We will investigate progress to see how and why men formed governments. We will look at man's economic record to see how people earn a living and why nations trade with each other. The societies and cultures of man will be studied to better understand the conflicts which confront nations today. An emphasis will be placed upon map skills during this course.

### **Words at Work 1,2, & 3**

Credits: 1/2

Elective

Semester

Class Focus:10-12

Business Communication is a practical course that will show you the right way to write memos, letters and reports through lessons of writing informational, persuasive, sales, employment, and good and bad news communications, to both internal and external audiences – with practice analyzing those audiences. It will also include the study and application of team communication and use of technology to facilitate the communication process.

### **Yoga/Pilates/Core Strength**

Credits: 1/2

Elective

Semester

Class Focus: 11-12

This course is intended to provide a combination of beginning level Yoga and Pilates taught throughout the semester. Yoga is a series of physical exercises resulting in the union of the mind-body-spirit. It is a combination of exercises to develop/improve relaxation, concentration, body tone, strength, and flexibility. A program of physical postures is designed to develop balanced, injury-free muscle and spine and to develop deep mind/body awareness. Pilates is a series of mind/body exercise techniques to train the students to integrate the use of mind and body. The methods of exercise and physical movement are designed to stretch, strengthen, and balance the body. Pilates will improve joint health and bone density as well as posture, balance, and core strength.