

Career & Technical Education

Agriculture, Food & Natural Resources

Principles of Agriculture, Food, and Natural Resources 0507

This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings.

CREDIT: 1 **TYPE:** Standard **GRADE:** 9-10

Principles of Agriculture - Welding 0507W

No description available

CREDIT: 1 **TYPE:** Standard **GRADE:** 9-10

Floral Design 1507

Floral Design is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. To prepare for careers in floral design, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

This course satisfies the fine arts graduation requirement.

COURSE NOTE: Recommended Prerequisite: Principles of Agriculture, Food, & Natural Resources.

CREDIT: 1 **TYPE:** Standard **GRADE:** 9-12

Wildlife, Fisheries and Ecology Management 0516

Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aquacrops and their ecological needs as related to current agricultural practices. To prepare for careers in natural resource systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

COURSE NOTE: Recommended Prerequisite: Principles of Agriculture, Food, & Natural Resources.

CREDIT: 1 **TYPE:** Standard **GRADE:** 10-12

Agricultural Mechanics and Metal Technologies 1510

Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry

certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings.

COURSE NOTE: Recommended Prerequisite: Principles of Agriculture, Food & Natural Resources.

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Livestock Production

2501

In Livestock Production, students will acquire knowledge and skills related to livestock and the livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

COURSE NOTE: Recommended Prerequisite: Principles of Agriculture

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Horticultural Science

2502

Horticultural Science is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticulture and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings.

CREDIT: 1

TYPE: Standard

GRADE: 10-12

PREREQUISITE: 1507 - Floral Design

Small Animal Management

2507

In Small Animal Management, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings.

CREDIT: 0.5

TYPE: Standard

GRADE: 10-12

Equine Science

2508

In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

COURSE NOTE: Recommended Prerequisite: Principles of Agriculture, Food, & Natural Resources.

CREDIT: 0.5

TYPE: Standard

GRADE: 10-12

Welding I

3320

Welding I provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

COURSE NOTE: Recommended Prerequisites: Algebra I

CREDIT: 2

TYPE: Standard

GRADE: 10-12

PREREQUISITE: 1510 - Agricultural Mechanics and Metal Technologies **or** 1300 - Introduction to Welding

Practicum in Agriculture, Food, & Natural Resources

0525

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources Career Cluster. Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food and natural resources, students must attain academic skills and knowledge, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

COURSE NOTE: Prerequisite: A minimum of two credits must be earned in the Agriculture Career Cluster.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

Welding II

4320

Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

COURSE NOTE: Recommended Prerequisites: Algebra I or Geometry

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 3320 - Welding I

Veterinary Medical Applications

4501

Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings.

COURSE NOTE: .

CREDIT: 1

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 2501 - Livestock Production **or** 2507 - Small Animal Management **or** 2508 - Equine Science

Advanced Plant and Soil Science

4502

Advanced Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

This course satisfies a high school science graduation requirement.

COURSE NOTE: Recommended Prerequisites: IPC, Biology, Chemistry, or Physics

CREDIT: 1

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 2502 - Horticultural Science

Advanced Animal Science

4512

Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

This course satisfies a high school science graduation requirement.

COURSE NOTE: Recommended Prerequisite: Veterinary Medical Applications.

CREDIT: 1

TYPE: Standard

GRADE: 11-12

PREREQUISITE: Biology & Chemistry OR IPC & Chemistry AND Algebra I & Geometry AND either Small Animal Management, Equine Science, OR Livestock Production

Practicum in Manufacturing

9115

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Manufacturing Career Cluster. The Practicum in Manufacturing course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

CREDIT: 2

TYPE: Honors

GRADE: 12

PREREQUISITE: 4320 - Welding II

Architecture & Construction

Principles of Construction

1317

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

CREDIT: 1

TYPE: Standard

GRADE: 9-10

Principles of Architecture**1318**

Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, education, and career information to set and achieve realistic career and educational goals. Job specific training can be provided through training modules that identify career goals in trade and industry areas. Classroom studies include topics such as safety, work ethics, communication, information technology applications, systems, health, environment, leadership, teamwork, ethical and legal responsibility, employability, and career development and include skills such as problem solving, critical thinking, and reading technical drawings.

CREDIT: 1**TYPE:** Standard**GRADE:** 9-10

Architectural Design I**1360**

In Architectural Design I, students will gain knowledge and skills needed to enter a career in architecture or construction or prepare a foundation toward a post-secondary degree in architecture, construction science, drafting, interior design, or landscape architecture. Architectural Design I includes the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for nonresidential or residential architectural purposes.

COURSE NOTE: Recommended Prerequisites: Geometry, Principles of Construction or Principles of Architecture.

CREDIT: 1**TYPE:** Standard**GRADE:** 10-12**PREREQUISITE:** Algebra I AND English I

Construction Technology I**1363**

In Construction Technology I, students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors or prepare for a post-secondary degree in construction management, architecture, or engineering. Students acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.

For safety and liability considerations, enrollment may be limited to 15 students.

COURSE NOTE: Recommended Prerequisite: Principles of Architecture or Principles of Construction.

CREDIT: 2**TYPE:** Standard**GRADE:** 10-12

Interior Design I**2515**

Interior Design is a technical course that addresses psychological, physiological, and sociological needs of individuals by enhancing the environments in which they live and work. Individuals use knowledge and skills related to interior and exterior environments, construction, and furnishings to make wise consumer decisions, increase productivity, promote sustainability and compete in industry.

***Recommended Prerequisites: Principles of Architecture & Construction

COURSE NOTE: Recommended Prerequisites: Principles of Architecture or Principles of Construction.

CREDIT: 1**TYPE:** Standard**GRADE:** 10-12**PREREQUISITE:** Algebra I AND English I

Architectural Design I Dual Credit**9360**

Dual Credit with Paris Junior College - CAD 1309 and CAD 1305

COURSE NOTE: This course requires admission to Paris Junior College.

CREDIT: 1**TYPE:** Honors**GRADE:** 11

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

CREDIT: 0.5

TYPE: Standard

GRADE: 9-12

Audio Video Production I

1001

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video products.

COURSE NOTE: Recommended Prerequisite: Principles of Arts, AV Technology & Communications.

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Graphic Design and Illustration for Journalism

1410

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

The student will learn journalistic style of writing and layout design on computers. Students in this class are responsible for producing the school newspaper. Some outside class time is required.

COURSE NOTE: Recommended Prerequisite: Principles of Arts, AV Technology & Communications

CREDIT: 1

TYPE: Standard

GRADE: 10-12

PREREQUISITE: 2214 - Commercial Photography

Commercial Photography

2214

Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs.

COURSE NOTE: Recommended Prerequisite: Principles of Arts, AV Technology & Communications.

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Graphic Design and Illustration

2320

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

COURSE NOTE: Recommended Prerequisite: Principles of Arts, A/V Technology, and Communications

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Audio/Video Production II Lab

2001L

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production activities. This course may be implemented in an advanced audio format or an advanced format, including both audio and video. This course requires a lab co-requisite that affords necessary time devoted specifically to the production and post-production process.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 1001 - Audio Video Production I

Animation

2321

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing technical knowledge and skills needed for success in the world of technology, students will be expected to develop an understanding of the history and techniques of the animation industry.

COURSE NOTE: Recommended Prerequisites: Art I or Principles of Art, Audio/Video Technology, & Communications.

CREDIT: 1

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 0223 - Digital Media **or** 1410 - Graphic Design and Illustration for Journalism **or** 2320 - Graphic Design and Illustration

Graphic Design & Illustration II for Journalism Lab

2410L

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills.

This course includes a co-requisite lab course.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 1410 - Graphic Design and Illustration for Journalism **or** 2320 - Graphic Design and Illustration

Practicum in Audio/Video Production

3001

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production audio and video activities in a studio environment. This course may be implemented in an advanced audio, video, or animation format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 2001L - Audio/Video Production II Lab

Video Game Design

3321

Video Game Design will allow students to explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will learn gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical

Virtual Business**4311**

Virtual Business is designed for students to start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.

COURSE NOTE: Recommended Prerequisite Touch Systems Data Entry

CREDIT: 0.5

TYPE: Standard

GRADE: 10-12

Business Information Management (A)**9307**

Students gain knowledge and skills in the area of computer technologies, including advanced knowledge of electrical and electronic theory, computer principles, and components related to the installation, diagnosis, service, and repair of computer-based technology systems. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Proper use of analytical skills and application of information technology concepts and standards are essential to prepare students for success in a technology-driven society.

COURSE NOTE: Recommended Prerequisite: Touch System Data Entry

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Career Preparation I**0305**

Career Preparation provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. This instructional arrangement should be an advanced component of a student's individual program of study. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant, rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

COURSE NOTE: Prerequisites: Must be at least 16 years of age, no excessive absences or tardies, no SAC or Alternative School assignments, have your own reliable transportation, must start program when school starts and have a job within the first 15 days of school.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

Career Preparation I - Extended**0305E**

Career Preparation provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. This instructional arrangement should be an advanced component of a student's individual program of study. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant, rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. Students must be working at least 15 hours per week to take this course, and it must be taken concurrently with Career Preparation I or II

COURSE NOTE: Prerequisites: Must be at least 16 years of age, no excessive absences or tardies, no SAC or Alternative School assignments, have your own reliable transportation, must start program when school starts and have a job within the first 15 days of school.

CREDIT: 3

TYPE: Standard

GRADE: 11-12

Career Prep II - Extended**1305E**

Career Preparation II develops essential knowledge and skills through advanced classroom instruction with business and industry employment experiences. Career Preparation II maintains relevance and rigor, supports student attainment of academic standards, and effectively prepares students for college and career success.

CREDIT: 3**TYPE:** Standard**GRADE:** 11-12

PREREQUISITE: Prerequisites: Career Prep I, must be at least 16 years of age, no excessive absences or tardies, no SAC or Alternative School assignments, have your own reliable transportation, must start program when school starts and have a job within the first 15 days of school.

Business Management Dual Credit**2308D**

This course will count as a Business Management credit for SSHS and dual credits for BUSG 1301 and BUSG 1327 for Paris Junior College.

COURSE NOTE: This course requires admission to Paris Junior College and tuition.

CREDIT: 1**TYPE:** Honors**GRADE:** 11-12

Practicum in Business Management**3307**

Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or post-secondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

COURSE NOTE: Must have completed a minimum of two credits in the Business Management & Administration Career Cluster. Recommended Prerequisite: Business Information Management II.

CREDIT: 2**TYPE:** Standard**GRADE:** 11-12

Business Information Management II**5307**

In Business Information Management II, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or post-secondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software.

COURSE NOTE: Recommended Prerequisite: Touch Systems Data Entry

CREDIT: 1**TYPE:** Standard**GRADE:** 11-12

PREREQUISITE: 4307 - Business Information Management I

Business Law**5310**

Business Law is designed for students to analyze various aspects of the legal environment, including ethics, the judicial system, contracts, personal property, sales, negotiable instruments, agency and employment, business organization, risk management, and real property.

CREDIT: 1

TYPE: Standard

GRADE: 11-12

Career Preparation II

1305

Career Preparation II develops essential knowledge and skills through advanced classroom instruction with business and industry employment experiences. Career Preparation II maintains relevance and rigor, supports student attainment of academic standards, and effectively prepares students for college and career success.

CREDIT: 2

TYPE: Standard

GRADE: 12

PREREQUISITE: Career Prep I, must be at least 16 years of age, no excessive absences or tardies, no SAC or Alternative School assignments, have your own reliable transportation, must start program when school starts and have a job within the first 15 days of school.

Education and Training

Principles of Education and Training

1316

Principles of Education and Training is designed to introduce learners to the various careers available within the Education and Training Career Cluster. Students use self-knowledge as well as educational and career information to analyze various careers within the Education and Training Career Cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

CREDIT: 1

TYPE: Standard

GRADE: 9-10

Child Development

5316

Child Development is a technical laboratory course that addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

COURSE NOTE: Recommended Prerequisite: Principles of Human Services or Principles of Education and Training

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Instructional Practices

1321

Instructional Practices in Education and Training is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge or early childhood education and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 5316 - Child Development

Practicum in Education Dual Credit

4321D

This course will satisfy the Practicum in Education credits for SSSH and students will receive credits for EDUC 1301 and EDUC 2301 for Paris Junior College.

COURSE NOTE: This course requires admission to Paris Junior College and tuition.

CREDIT: 2

TYPE: Honors

GRADE: 11-12

Practicum in Education and Training**4321**

Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel.

COURSE NOTE: Recommended Prerequisites: Principles of Education & Training

CREDIT: 2

TYPE: Standard

GRADE: 12

PREREQUISITE: 1321 - Instructional Practices

Finance

Principles of Business, Marketing, and Finance**1308**

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

CREDIT: 1

TYPE: Standard

GRADE: 9-10

Money Matters**5308**

In Money Matters, students will investigate money management from a personal financial perspective. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning.

COURSE NOTE: Recommended Prerequisite: Principles of Business, Marketing, & Finance

CREDIT: 1

TYPE: Standard

GRADE: 9-12

Accounting I**0302**

In Accounting I, students will investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students will formulate and interpret financial information for use in management decision making.

COURSE NOTE: Recommended Prerequisite: Principles of Business, Marketing, & Finance

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Financial Mathematics**2113**

Financial Mathematics is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. This course will integrate career and postsecondary education planning into financial decision making.

CREDIT: 1

TYPE: Standard

GRADE: 10-12

PREREQUISITE: 0104 - Algebra I PSP

Accounting II

1302

In Accounting II, students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.

This course satisfies a high school mathematics graduation requirement.

CREDIT: 1

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 0302 - Accounting I

Financial Analysis

3302

In Financial Analysis, students will apply knowledge and technical skills in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students will develop analytical skills by actively evaluating financial results of multiple businesses, interpreting results for stakeholders, and presenting strategic recommendations for performance improvement.

CREDIT: 1

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 1302 - Accounting II

Health Science

Principles of Health Science

1401

The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.

CREDIT: 1

TYPE: Standard

GRADE: 9-10

Health Science Theory

1402

The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.

CREDIT: 1

TYPE: Standard

GRADE: 10-12

PREREQUISITE: Principles of Health Science Theory AND Biology

Medical Terminology

4402

The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

COURSE NOTE: Recommended Prerequisite: Principles of Health Science

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Lifetime Nutrition and Wellness

0800

Lifetime Nutrition and Wellness is a laboratory course that allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences. This course meets a local requirement for graduation.

CREDIT: 0.5

TYPE: Standard

GRADE: 11-12

Anatomy and Physiology CP

1101

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. Anatomy and Physiology will satisfy a science credit beyond physics.

CREDIT: 1

TYPE: Honors

GRADE: 11-12

PREREQUISITE: Biology and 2nd Science Credit

Practicum in Health Science I

2402

The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. To pursue a career in health science, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should understand that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to learn the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: Prerequisites: Principles of Health Science, Health Science Theory, AND Biology.

Project-Based Research

4403

Project-Based Research is a course for students to research a real-world problem. Students are matched with a mentor from the business or professional community to develop an original project on a topic related to career interests. Students use scientific methods of investigation to conduct indepth research, compile findings, and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

CREDIT: 1

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 1402 - Health Science Theory

Practicum in Health Science - CNA **9120**

This is a dual-credit course through Paris Junior College. Students will earn PJC credits in NURA 1301 and NURA 1260 and take the Certified Nurse Aid Certification.

COURSE NOTE: Must meet PJC admission requirements and pay tuition to PJC campus.

CREDIT: 2 **TYPE:** Honors **GRADE:** 11-12

PREREQUISITE: Prerequisites: Principles of Health Science, Health Science Theory, AND Biology

Anatomy & Physiology DC **9200**

This is a dual credit course for Anatomy and Physiology offered through Paris Junior College to satisfy a science credit for Allied Health Majors: BIOL 2401 & 2402

CREDIT: 1 **TYPE:** Honors **GRADE:** 11-12

Practicum in Health Science II **3402**

The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. To pursue a career in health science, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should understand that quality health care depends on the ability to work well with others.

CREDIT: 2 **TYPE:** Honors **GRADE:** 12

PREREQUISITE: 2402 - Practicum in Health Science I

Hospitality and Tourism

Introduction to Culinary Arts **0802**

Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry. This course is offered as a classroom and laboratory-based course.

COURSE NOTE: Recommended Prerequisite: Principles of Hospitality and Tourism.

CREDIT: 1 **TYPE:** Standard **GRADE:** 9-10

Hospitality Services **0510**

Hospitality Services provides students with the academic and technical preparation to pursue high-demand careers in hospitality related industries. The knowledge and skills are acquired within a sequential, standards-based program that integrates hands-on and project-based instruction. Standards included in the Hospitality Services course are designed to prepare students and entry-level careers. In addition, Hospitality Services is designed so that performance standards meet employer expectations, enhancing the employability of students. Instruction may be delivered through laboratory training or through internships, mentoring, or job shadowing.

CREDIT: 2 **TYPE:** Standard **GRADE:** 9-12

Culinary Arts **0801**

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national

sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory-based or internship course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

CREDIT: 2

TYPE: Standard

GRADE: 10-12

PREREQUISITE: 0802 - Introduction to Culinary Arts

Practicum in Hospitality Services I

0515

Practicum in Hospitality Services is a unique practicum experience to provide opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Hospitality Services integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. Students are taught employability skills, including job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Practicum in Hospitality Services is relevant and rigorous, supports student attainment of academic and technical standards, and effectively prepares students for career success.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 0510 - Hospitality Services

Practicum in Hospitality Services II

0520

Practicum in Hospitality Services is a unique practicum experience to provide opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Hospitality Services integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. Students are taught employability skills, including job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Practicum in Hospitality Services is relevant and rigorous, supports student attainment of academic and technical standards, and effectively prepares students for career success.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 0515 - Practicum in Hospitality Services I

Practicum in Culinary Arts

0805

Practicum in Culinary Arts is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 1801 - Advanced Culinary Arts

Advanced Culinary Arts

1801

Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards in order to prepare students for success in higher education, certifications, and/or immediate employment.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 0801 - Culinary Arts

Human Services

Principles of Human Services

0313

Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

CREDIT: 1

TYPE: Standard

GRADE: 9-10

Child Development

5316

Child Development is a technical laboratory course that addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

COURSE NOTE: Recommended Prerequisite: Principles of Human Services or Principles of Education and Training

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Lifetime Nutrition and Wellness

0800

Lifetime Nutrition and Wellness is a laboratory course that allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences. This course meets a local requirement for graduation.

CREDIT: 0.5

TYPE: Standard

GRADE: 11-12

Dollars and Sense

3901

Dollars and Sense focuses on consumer practices and responsibilities, money-management processes, decision-making skills, impact of technology, and preparation for human services careers. This course meets a local requirement of graduation.

CREDIT: 0.5

TYPE: Standard

GRADE: 11-12

Practicum in Human Services

4313

Practicum in Human Services provides background knowledge and occupation-specific training that focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community services careers. Content for Practicum in Human Services is designed to meet the occupational preparation needs and interests of students and should be based upon the knowledge and skills selected from two or more courses in a coherent sequence in the human services cluster.

COURSE NOTE: Required Prerequisites: Minimum of two (2) credits in Human Services cluster.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

Information Technology

Principles of Information Technology

0221

In Principles of Information Technology, students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

CREDIT: 1

TYPE: Standard

GRADE: 9-10

Digital Media

0223

In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Computer Programming I

0303

In Computer Programming I, students will acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer programming. Students will apply technical skills to address business applications of emerging technologies.

COURSE NOTE: Recommended Prerequisite: Principles of Information Technology and Algebra I

CREDIT: 1

TYPE: Honors

GRADE: 10-12

Computer Maintenance

1325

Students acquire principles of computer maintenance, including electrical and electronic theory, computer hardware principles, and broad level components related to the installation, diagnosis, service, and repair of computer systems. To prepare for success, students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

COURSE NOTE: Recommended Prerequisite: Principles of Information Technology

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Web Technologies

0219

In Web Technologies, students will learn to make informed decisions and apply the decisions to the field of IT. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

CREDIT: 1

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 2321 - Animation

Computer Programming II

1303

In Computer Programming II, students will expand their knowledge and skills in structured programming techniques and concepts by addressing more complex problems and developing comprehensive programming solutions. Students will analyze the social responsibility of business and industry regarding the significant issues relating to environment, ethics, health, safety, and diversity in

society and in the workplace as related to computer programming. Students will apply technical skills to address business applications of emerging technologies.

CREDIT: 1

TYPE: Honors

GRADE: 11-12

PREREQUISITE: 0303 - Computer Programming I

Practicum in Information Technology Tech

1340TT

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation. This course will provide an internship on campus with our Digital Learning Specialist and our student Tech Team.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: Minimum of two (2) IT courses: Principles of IT, Computer Programming I AND/OR Digital Media.

Practicum in Information Technology

1340

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.

CREDIT: 2

TYPE: Standard

GRADE: 12

PREREQUISITE: Computer Programming I AND Computer Programming II

Law, Public Safety, Corrections, and Security

Principles of Law, Public Safety, Corrections, and Security

2331

Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, protective services, and corrections.

CREDIT: 1

TYPE: Standard

GRADE: 9-10

Law Enforcement I

4330

Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime.

COURSE NOTE: Recommended Prerequisite: Principles of Law, Public Safety, Corrections, & Security.

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Court Systems and Practices

4331

Court Systems and Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.

CREDIT: 1

TYPE: Standard

GRADE: 10-12

PREREQUISITE: 4330 - Law Enforcement I

Forensic Science

0331

Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science. This course satisfies a high school science graduation requirement.

COURSE NOTE: Recommended Prerequisite: Any Law & Public Safety course.

CREDIT: 1

TYPE: Standard

GRADE: 11-12

PREREQUISITE: Biology AND Chemistry

Court Systems Dual Credit

4331D

This course will satisfy the Court Systems credit for SSHS and students will receive credits for CRIJ 1301 and CRIJ 2323 through Paris Junior College.

COURSE NOTE: This course requires admission through Paris Junior College and tuition.

CREDIT: 1

TYPE: Honors

GRADE: 11-12

Practicum in Law, Public Safety, Corrections & Security

4332

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Law, Public Safety, Corrections, and Security Career Cluster. The Practicum in Law is designed to give students supervised practical application of previously studied knowledge and skills in Law, Public Safety, Corrections, and Security. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: Two (2) Credits in Law & Public Safety: Principles of Law, Law Enforcement, AND/OR Court Systems

Practicum in Law Dual Credit

4332D

This course will satisfy the credits for Practicum in Law for SSHS and credits with Paris Junior College for CRIJ 1307 and CRIJ 2328.

COURSE NOTE: This course requires admission through Paris Junior College and tuition.

CREDIT: 2

TYPE: Honors

GRADE: 11-12

Manufacturing

Introduction to Welding

1300

Introduction to Welding will provide an introduction to welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic

welding processes. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries. Students will develop knowledge and skills related to welding and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills will prepare students for future success. Introduction to Welding will provide an introduction to welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries. Students will develop knowledge and skills related to welding and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills will prepare students for future success.

COURSE NOTE: Recommended Prerequisite or Co-requisite: Algebra I

CREDIT: 1

TYPE: Standard

GRADE: 9-10

Welding I

3320

Welding I provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

COURSE NOTE: Recommended Prerequisites: Algebra I

CREDIT: 2

TYPE: Standard

GRADE: 10-12

PREREQUISITE: 1510 - Agricultural Mechanics and Metal Technologies **or** 1300 - Introduction to Welding

Welding II

4320

Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

COURSE NOTE: Recommended Prerequisites: Algebra I or Geometry

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 3320 - Welding I

Practicum in Manufacturing

9115

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Manufacturing Career Cluster. The Practicum in Manufacturing course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

CREDIT: 2

TYPE: Honors

GRADE: 12

PREREQUISITE: 4320 - Welding II

Marketing

Principles of Business, Marketing, and Finance

1308

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

CREDIT: 1

TYPE: Standard

GRADE: 9-10

Professional Communications

0700

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

CREDIT: 0.5

TYPE: Standard

GRADE: 9-12

Entrepreneurship

3305

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition students will understand the capital required, the return on investment desired, and the potential for profit.

COURSE NOTE: Recommended Prerequisite: Principles of Business, Marketing & Finance

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Virtual Business

4311

Virtual Business is designed for students to start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.

COURSE NOTE: Recommended Prerequisite Touch Systems Data Entry

CREDIT: 0.5

TYPE: Standard

GRADE: 10-12

Career Preparation I

0305

Career Preparation provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. This instructional arrangement should be an advanced component of a student's individual program of study. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career

preparation is relevant, rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

COURSE NOTE: Prerequisites: Must be at least 16 years of age, no excessive absences or tardies, no SAC or Alternative School assignments, have your own reliable transportation, must start program when school starts and have a job within the first 15 days of school.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

Career Preparation I - Extended

0305E

Career Preparation provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. This instructional arrangement should be an advanced component of a student's individual program of study. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant, rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. Students must be working at least 15 hours per week to take this course, and it must be taken concurrently with Career Preparation I or II

COURSE NOTE: Prerequisites: Must be at least 16 years of age, no excessive absences or tardies, no SAC or Alternative School assignments, have your own reliable transportation, must start program when school starts and have a job within the first 15 days of school.

CREDIT: 3

TYPE: Standard

GRADE: 11-12

Career Prep II - Extended

1305E

Career Preparation II develops essential knowledge and skills through advanced classroom instruction with business and industry employment experiences. Career Preparation II maintains relevance and rigor, supports student attainment of academic standards, and effectively prepares students for college and career success.

CREDIT: 3

TYPE: Standard

GRADE: 11-12

PREREQUISITE: Prerequisites: Career Prep I, must be at least 16 years of age, no excessive absences or tardies, no SAC or Alternative School assignments, have your own reliable transportation, must start program when school starts and have a job within the first 15 days of school.

Career Preparation II

1305

Career Preparation II develops essential knowledge and skills through advanced classroom instruction with business and industry employment experiences. Career Preparation II maintains relevance and rigor, supports student attainment of academic standards, and effectively prepares students for college and career success.

CREDIT: 2

TYPE: Standard

GRADE: 12

PREREQUISITE: Career Prep I, must be at least 16 years of age, no excessive absences or tardies, no SAC or Alternative School assignments, have your own reliable transportation, must start program when school starts and have a job within the first 15 days of school.

Science, Technology, Engineering & Mathematics

Principles of Applied Engineering

1301

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety

of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

CREDIT: 1

TYPE: Standard

GRADE: 9-10

Robotics I

1350

In Robotics I, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Robotics II

2350

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

CREDIT: 1

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 1350 - Robotics I

Practicum in STEM

4350

Practicum in STEM is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

COURSE NOTE: Must have completed a minimum of two credits in the STEM cluster.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 0104 - Algebra I PSP **or** 0108 - Geometry PSP **or** 1108 - Geometry CP

Transportation, Distribution & Logistics

Principles of Transportation Systems

0224

In Principles of Transportation Systems, students will gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the transportation industry. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

CREDIT: 1

TYPE: Standard

GRADE: 9-10

Automotive Basics

5500

Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics, students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

CREDIT: 1

TYPE: Standard

GRADE: 9-12

Automotive Tech I: Maintenance & Light Repair

0501

Automotive Technology I: Maintenance and Light Repair includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In Automotive Technology I: Maintenance and Light Repair, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability

CREDIT: 2

TYPE: Standard

GRADE: 10-12

PREREQUISITE: 5501 - Small Engine Technology **or** 5500 - Automotive Basics **or** 0224 - Principles of Transportation Systems

Small Engine Technology

5501

Small Engine Technology I includes knowledge of the function and maintenance of the systems and components of all types of small engines such as outdoor power equipment, motorcycles, generators, and irrigation engines. This course is designed to provide training for employment in the small engine technology industry. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems. In addition, the student will receive instruction in safety, academic, and leadership skills as well as career opportunities.

COURSE NOTE: Recommended Prerequisites: Principles of Transportation, Distribution & Logistics

CREDIT: 1

TYPE: Standard

GRADE: 10-12

Automotive Tech II: Automotive Service

5502

Automotive Technology II: Automotive Service includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Technology II: Automotive Service includes applicable safety and environmental rules and regulations. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 0501 - Automotive Tech I: Maintenance & Light Repair

Practicum in Transportation Systems

5504

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of courses in the Transportation, Distribution, and Logistics cluster. The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate for the nature and level of experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or worked based.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

PREREQUISITE: 0501 - Automotive Tech I: Maintenance & Light Repair **or** 5502 - Automotive Tech II: Automotive Service

Worked-based Learning

Career Preparation I

0305

Career Preparation provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. This instructional arrangement should be an advanced component of a student's individual program of study. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant, rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

COURSE NOTE: Prerequisites: Must be at least 16 years of age, no excessive absences or tardies, no SAC or Alternative School assignments, have your own reliable transportation, must start program when school starts and have a job within the first 15 days of school.

CREDIT: 2

TYPE: Standard

GRADE: 11-12

Career Preparation I - Extended

0305E

Career Preparation provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. This instructional arrangement should be an advanced component of a student's individual program of study. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant, rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. Students must be working at least 15 hours per week to take this course, and it must be taken concurrently with Career Preparation I or II

COURSE NOTE: Prerequisites: Must be at least 16 years of age, no excessive absences or tardies, no SAC or Alternative School assignments, have your own reliable transportation, must start program when school starts and have a job within the first 15 days of school.

CREDIT: 3

TYPE: Standard

GRADE: 11-12

Career Prep II - Extended

1305E

Career Preparation II develops essential knowledge and skills through advanced classroom instruction with business and industry employment experiences. Career Preparation II maintains relevance and rigor, supports student attainment of academic standards, and effectively prepares students for college and career success.

CREDIT: 3

TYPE: Standard

GRADE: 11-12

PREREQUISITE: Prerequisites: Career Prep I, must be at least 16 years of age, no excessive absences or tardies, no SAC or Alternative School assignments, have your own reliable transportation, must start program when school starts and have a job within the first 15 days of school.

Career Preparation II

1305

Career Preparation II develops essential knowledge and skills through advanced classroom instruction with business and industry employment experiences. Career Preparation II maintains relevance and rigor, supports student attainment of academic standards, and effectively prepares students for college and career success.

CREDIT: 2

TYPE: Standard

GRADE: 12

PREREQUISITE: Career Prep I, must be at least 16 years of age, no excessive absences or tardies, no SAC or Alternative School assignments, have your own reliable transportation, must start program when school starts and have a job within the first 15 days of school.

