

Corsicana High School

Career & Technical
Education

Career Pathways & Course Description Handbook

2017-2018

ASSURANCE OF NONDISCRIMINATION

Corsicana Independent School District does not discriminate on the basis of race, religion, color, national origin, sex or disability in providing education or providing access to benefits of education services, activities, and programs, including career and technology programs, in accordance with Title VI of the Civil Rights Act of 1964 as amended; Title IX of the Education Amendments of 1972; Section 504 of the Rehabilitation Act of 1973, as amended; and Title II of the Americans with Disabilities Act.

CHS MISSION STATEMENT

We commit to developing a personal relationship with every student that will foster a sense of hope and allow for a high level of academic achievement as determined by state and national standards while providing a comprehensive system of support to assure this outcome.

CISD MISSION STATEMENT

Corsicana ISD, in partnership with parents and the community, will teach a rigorous and relevant curriculum in a safe and nurturing environment, preparing our students to succeed and work in a diverse world and encouraging them to become lifelong learners.

MISSION & PURPOSE OF CAREER AND TECHNICAL EDUCATION

The mission of Career and Technical Education is to prepare students to succeed in high demand occupations within the 21st century's competitive global economy and to provide students with the academic skills necessary to continue their education in post-secondary schools. Career and Technical Education can help students explore their potential and establish future career goals. Students can use the Career Pathways and Programs of Study to choose courses that interest them. Students do not need to take every course listed under each grade level as there are many options within each program.



TEXAS CAREER CLUSTERS

At the state level, Texas has adopted the 16 federal career clusters plus the Governor's six targeted industry clusters, which are the economic engines of the state. These encompass most of the careers students might choose and connect directly to the Texas job market and economy.

Students should choose a cluster in the eighth grade, annually reevaluate their education and career goals, continue in a cluster during postsecondary education or training, and enter employment when they are ready to start careers. The system offers a seamless pathway to success in school, career, and life.

Local districts in Texas are free to choose which cluster to implement based on the needs of the students, community, and local economy.

Corsicana High School has adopted the following Texas Career Clusters:

- Agriculture, Food & Natural Resources
- Architecture & Construction
- Arts, A/V Technology & Communications
- Business Management & Administration
- Education
- Finance
- Health Science
- Hospitality & Tourism
- Human Services
- Information Technology
- Law & Public Safety
- Manufacturing
- Marketing
- Science, Technology, Engineering & Mathematics
- Transportation, Distribution & Logistics

More information about Achieve Texas can be found at www.achievetexas.org

Agriculture, Food and Natural Resources

COURSE	GRADE	CREDIT
Principles of Agriculture, Food & Natural Resources	9-12	1
Livestock Production	10-12	1
Veterinary Medical Applications	10-12	1
Advanced Animal Science *counts as 4th science credit	11-12	1
Floral Design *counts as fine arts credit	10-12	1
Agricultural Mechanics & Metal Technologies	10-12	1
Agricultural Equipment Design and Fabrication	11-12	2
Practicum in Agriculture, Food & Natural Resources	12	2

Students enrolled in agriculture courses are provided the opportunity and are expected to complete requirements for membership in the FFA, the nation's largest youth leadership organization. FFA is an integral part of the curriculum of Agriculture, Food and Natural Resources. Through active participation in the FFA, members learn by conducting and taking part in meetings, speaking in public, participating in contests, earning awards and becoming active in cooperative efforts and community improvement.

Principles of Agriculture, Food & Natural Resources

Prerequisite: None

Grades: 09-12

Credit: 1

To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. 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.

Livestock Production

Prerequisite: Principles of Ag

Grades: 11-12

Credit: 1

To be prepared for careers in the field of animal science, students need to 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. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

Veterinary Medical Applications

Prerequisite: Principles of Ag

Grades: 11-12

Credit: 1

To be prepared for careers in the field of animal science, students need to 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. Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species.

Floral Design

Prerequisite: None

Grades: 10-12

Credit: 1

SUBJECT	GRADE	CREDIT
Principles of Construction (Not offered 2017-2018)	9-12	1
Construction Technology I	10-12	2
Construction Technology II	11-12	2
Practicum Construction Management	12	2
Interior Design (Not offered 2017-2018)	9-12	1
Advanced Interior Design (Not offered 2017-2018)	10-12	1
Practicum in Interior Design (Not offered 2017-2018)	12	2

Principles of Architecture & Construction

Prerequisite: None

Grades: 9-12

Credit: 1

Principles of Architecture and Construction provides an overview to the various fields of architecture, interior design, construction science, and construction technology. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, educational, and career information to set and achieve realistic career and educational goals. Job-specific, skilled training can be provided through the use of training modules to identify career goals in trade and industry areas. Safety and career opportunities are included, in addition to work ethics and job related study in the classroom such as communications; problem solving and critical thinking; Information Technology Applications; systems; safety, health, and environmental; leadership and teamwork; ethics and legal responsibilities; employability and career development; technical skills; introduction to hand tools; introduction to power tools; basic rigging; and reading technical drawings.

Construction Technology I

Recommended Prerequisite: BIM

Grades: 10-12

Credit: 2

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

Construction Technology II

Prerequisite: Construction Technology I

Grades: 11-12

Credit: 2

In Advanced Construction Technology, students gain knowledge and skills specific to those needed to enter the work force as carpenters building maintenance technicians, or supervisors or prepare for a postsecondary degree in construction management, architecture, or engineering. Students build on the knowledge base from Construction Technology and are introduced to exterior and interior finish out skills.

Practicum in Construction Management

Prerequisite: Completion of a coherent sequence in Construction.

Grades: 12

Credit: 2

Instruction may be delivered through laboratory training or through career preparation delivery arrangements. Practicum in Construction Management is an occupationally specific course designed to provide classroom technical instruction or on-the-job training experiences. Safety and career opportunities are included in addition to work ethics and job-related study in the classroom.

Interior Design (Not offered 2017-2018)

Recommended prerequisite: Principles of Architecture & Construction Grades: 10-11 Credit: 1
 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, and compete in industry.

Advanced Interior Design (Not offered 2017-2018)

Prerequisite: Interior Design Grades: 11-12 Credit: 1 - 2

Advanced interior design is a technical laboratory course that includes the knowledge of the employability characteristics, principles, processes, technologies, communication, tools, equipment, and materials related to interior spatial design.

Practicum in Interior Design (Not offered 2017-2018)

Prerequisite: a coherent sequence in interior design Grades: 12 Credit: 2 – 3

Instruction may be delivered through laboratory training or through career preparation delivery arrangements. This is an occupationally-specific course designed to provide classroom technical instruction. Job-specific skilled training is provided through the use of laboratory training or training plans by local training sponsors in areas compatible with identified career goals in interior design.

Arts, A/V Technology & Communications

SUBJECT	GRADE	CREDIT
Principles of Arts, A/V Technology & Communications (Not offered 2017-2018)	9-12	1
Audio/Video Production I	10-12	1
Audio/Video Production II	10-12	2
Graphic Design and Illustration	12	1
Audio/Video Practicum	12	2

Principles of Arts, Audio Video Technology and Communications

Prerequisites: None Grades: 9-12 Credit: 1

Grade Points:

Careers in the Arts, Audio Video Technology and Communications career cluster require a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication in addition to creative aptitude. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

Audio Video Production I

Recommended Prerequisites: Prin. of Arts, A/V Tech & Comm. Grades: 9-12 Credit: 1

Careers in audio and video technology and film production span all aspects of the audio video communications industry. Students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video activities in addition to developing technical knowledge and skills needed for success in the Arts, Audio Video Technology, and Communications career cluster.

Audio Video Production II

Prerequisites: Audio Video Production. Grades: 10-12 Credit: 1

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 postproduction activities. This course may be implemented in an advanced audio format or an advanced format, including both audio and video.

Graphic Design and Illustration I

Recommended Prerequisites: Prin. of Arts, A/V Tech & Comm. Grades: 10-12 Credit: 1

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.

Practicum in Audio Video Production

Prerequisite: Advanced Audio Video Production Grades: 11-12 Credit: 2

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.

Business Management & Administration

SUBJECT	GRADE	CREDIT
Business Information Management I (BIM)	10-12	1
Business Information Management II (BIM II)	10-12	1
Business Management	10-12	1
Entrepreneurship	10-12	1
Practicum in Business Management (Not offered 2017-2018)	12	1/2

Business Information Management I (BIM)

Recommended Prerequisite: Prin. of Business, Marketing and Finance. Grades: 9-12 Credit: 1

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

Business Information Management II (BIM II)

Recommended Prerequisite: Business Information Management I Grades: 10-12 Credit: 1

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 postsecondary 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.

Business Management

Recommended Prerequisite: None

Grades: 10 – 12

Credit: 1

Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Topics will incorporate social responsibility of business and industry. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent managers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate management decisions.

Entrepreneurship

Prerequisite: BIM Finance

Grades: 9-12

Credit: 1

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 understand the capital required, the return on investment desired, and the potential for profit.

Practicum in Business Management

Recommended Prerequisite or co-requisite: Business Management Grade: 12 Credit: 2

Practicum is designed to give students supervised practical application of previously studied knowledge and skills. 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 postsecondary 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.

Education & Training

SUBJECT	GRADE	CREDIT
Principles of Education & Training (Not offered 2017-2018)	9-12	1
Human Growth & Development	10-12	1
Instructional Practices in Education & Training	10-12	2
Practicum in Education & Training	12	2

Principles of Education and Training

Prerequisites: None

Grades: 9-12

Credit: 1

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 and educational and career information to analyze various careers within the education and training career cluster. Students will also gain an understanding of the basic knowledge and skills essential to 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.

Human Growth and Development

Recommended prerequisites: Principles of Education and Training. Grades: 10-12 Credit: 1
Recommended prerequisites: Principles of Education and Training. Human Growth and Development is an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development.

Instructional Practices

Recommended prerequisites: Human Growth and Development Grades: 11-12 Credit: 2
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 of 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.

Practicum in Education and Training

Recommended prerequisites: Instructional Practices in Education and Training.
Grade: 12 Credit: 2
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.

Finance

SUBJECT	GRADE	CREDIT
Money Matters	9-12	1
Accounting I	10-12	1
Accounting II	10-12	1

Money Matters

Recommended Prerequisite: Prin. of Business, Marketing, and Finance. Grades: 9-12 Credit: 1
Students will investigate global economics with emphasis on the free enterprise system and its impact on consumers and businesses. Students apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long-term financial goals based on those options. Students will determine methods of achieving long-term financial goals through investment, tax planning, asset allocation, risk management, retirement planning, and estate planning.

Accounting I

Prerequisite: Principles of Business, Marketing, and Finance. Grades: 10-12 Credit: 1
Students 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 reflect on the

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.

Anatomy and Physiology

Recommended prerequisites: Three credits of science. Grades: 10-12 Credit: 1

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.

Pathophysiology

Recommended prerequisites: Three credits of science. Grades: 11-12 Credit: 1

In Pathophysiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

Hospitality & Tourism

SUBJECT	GRADE	CREDIT
Principles of Hospitality & Tourism (Not offered 2017-2018)	9	1
Introduction to Culinary Arts	10	1
Culinary Arts	11-12	2
Advanced Culinary Arts	11-12	2
Practicum in Culinary Arts	12	2

Principles of Hospitality and Tourism

Prerequisites: None Grades: 9-11 Credit: 1

The hospitality and tourism industry encompasses lodging; travel and tourism; recreation, amusements, attractions, and resorts; and restaurants and food beverage service. The hospitality and tourism industry maintains the largest national employment base in the private sector. Students use knowledge and skills that meet industry standards to function effectively in various positions within this multifaceted industry. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Food Science

Prerequisites: Three units of science Grade Placement: 11-12 Credit: 1

In Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public.

Introduction to Culinary Arts

Recommended prerequisites: Prin. of Hospitality and Tourism or BIM Grades: 10-12 Credit: 1

This course 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. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Culinary Arts

Recommended prerequisites: Introduction to Culinary Arts, or Lifetime Nutrition and Wellness

Grades: 10-12 Credit: 2

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.

Advanced Culinary Arts

Prerequisite: Culinary Arts

Grades: 10-12

Credit: 2

Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by infusing high-level, industry-driven content to prepare students for success in higher education, certifications and/or immediate employment.

Practicum in Culinary Arts

Recommended prerequisites: Advanced Culinary Arts

Grades: 11-12

Credit(s): 2

This course 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. 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 college and career success.

Human Services

SUBJECT	GRADE	CREDIT
Principles of Human Services	9-12	1
Child Development	9-12	1
Child Guidance (Not offered 2017-2018)	10-12	2
Lifetime Nutrition & Wellness	9-12	1/2
Instructional Practice in Education	10-12	1
Practicum in Human Services	11-12	2

Principles of Human Services

Prerequisite: None

Grades: 9-12

Credit: 1/2

This laboratory course will enable students to investigate careers in the human services career cluster including counseling and mental health, early childhood development, family and community, and personal care 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. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Interpersonal Studies

Prerequisite: None

Grades: 10-12

Credit: 1/2

This course examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services.

Lifetime Nutrition and Wellness

Recommended prerequisite: Principles of Human Services, Principles of Hospitality and Tourism, Principles of Health Science, or Principles of Education and Training.

Grade Placement: 10-12 Credit: 1/2

This laboratory course 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.

Child Development

Recommended prerequisite: Principles of Human Services Grades: 10-12 Credit: 1

This technical laboratory course 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.

Child Guidance (Not offered 2017-2018)

Recommended prerequisite: Child Development Grades: 10-12 Credit: 2

This technical laboratory course addresses the knowledge and skills related to child growth and guidance equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children, including those with special needs.

Practicum in Human Services

Prerequisite: Principles of Human Services Grades: 11-12 Credit: 2

Provides occupationally specific training and 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 as well as the essential knowledge and skills including communication, critical thinking, problem solving, information technology, ethical and legal responsibilities, leadership, teamwork, and entrepreneurship.

Cosmetology I

Prerequisite: Principles of Human Services Grades: 11-12 Credit: 2

Students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, haircare, nail care, and skin care and meets the Texas Department of Licensing and Regulation requirements for licensure upon passing the state examination. Analysis of career opportunities, requirements, expectations, and development of workplace skills are included.

Cosmetology II

Prerequisite: Cosmetology I Grades: 11-12 Credit: 2 -

Students review academic knowledge and skills related to cosmetology. This course is designed to provide advanced training for employment in cosmetology careers. Instruction includes advanced training in sterilization and sanitation processes, hair care, nail care, and skin care and meets the Texas

Department of Licensing and Regulation requirements for licensure upon passing the state examination. Students apply, combine, and justify knowledge and skills to a variety of settings and problems.

Information Technology

SUBJECT	GRADE	CREDIT
Principles of Information Technology (Not offered 2017-2018)	9-12	1
Digital & Interactive Multimedia (1)	10-12	1
Web Technologies	10-12	1
Computer Programming (Not offered 2017-2018)	10-12	1
Advanced Computer Programming (Not offered 2017-2018)	11-12	1

Principles of Information Technology (Not offered 2017-2018)

Prerequisite: None

Grades: 9-10

Credit: 1

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

Computer Programming I (Not offered 2017-2018)

Recommended Prerequisite: Prin. of Information Technology or BIM Grades: 10-12 Credit: 1

Students acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will also 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 it relates to computer programming. Students should be able to apply technical skills to address business applications of emerging technologies as they relate to computer programming.

Computer Programming II (Not offered 2017-2018)

Recommended Prerequisite: Computer Programming

Grades: 11-12

Credit: 1

Students acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will also 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 it relates to computer programming. Students should be able to apply technical skills to address business applications of emerging technologies as they relate to computer programming.

Digital and Interactive Multimedia

Prerequisite: None

Grades: 10-12

Credit: 1

Students study digital and interactive media and its application in information technology and analyze/assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students use personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Knowledge and skills acquired and practiced enables students to successfully perform and interact in a technology-driven society. Students enhance reading, writing, computing, communication, and reasoning skills applied to the information technology environment.

Web Technologies

Recommended Prerequisite: Prin. of Information Technologies Grades: 10 -12 Credit: 1
 Through the study of web technologies and design, students learn to make informed decisions, and apply them to the field of information technology.

Law, Public Safety, Corrections & Security

SUBJECT	GRADE	CREDIT
Principles of Law, Public Safety & Corrections	9-12	1
Law Enforcement I	10-12	1
Law Enforcement II	11-12	1
Forensic Science *counts as science credit (Not offered 2017-2018)	12	1
Court Systems & Practices	10-12	1
Practicum in Law, Public Safety, Corrections, and Security	11-12	2

Principles of Law, Public Safety, Corrections, and Security

Recommended Prerequisite: None Grades: 9-12 Credit: 1
 Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, security, corrections, and fire 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, security, and corrections.

Law Enforcement I

Recommended Prerequisite: Principles of Law, Public Safety, Corrections, and Security
 Grades: 10-12 Credit: 1
 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.

Law Enforcement II

Recommended Prerequisite: Law Enforcement I Grades: 11-12 Credit: 1
 Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.

Forensic Science * counts as science credit (Not offered 2017-2018)

Prerequisites: Biology and Chemistry Grades: 11-12 Credit: 1
 Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science.

Court Systems and Practices

Recommended prerequisite: Law Enforcement I Grades: 10-12 Credit: 1
 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.

Practicum in Law, Public Safety, Corrections, and Security

Recommended prerequisite: Law Enforcement I Grades: 10-12 Credit: 2
 The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of courses in Law, Public Safety, Corrections, and Security. The Practicum 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.

Manufacturing

SUBJECT	GRADE	CREDIT
Principles of Manufacturing (Not offered 2017-2018)	9-12	1
Introduction to Welding	10-12	1
Welding I	10-12	2
Welding II	11-12	2

Principles of Manufacturing (Not offered 2017-2018)

Recommended prerequisite: None Grades: 9-12 Credit: 1
 In Principles of Manufacturing, students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Knowledge and skills in the proper application of principles of manufacturing, the design of technology, the efficient production of technology, and the assessment of the effects of technology prepare students for success in the modern world. The study of technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting. In addition to general academic and technical knowledge and skills, students gain an understanding of career opportunities available in manufacturing and what employers require to gain and maintain employment in these careers.

Introduction to Welding

Recommended prerequisite: BIM Grades: 10-12 Credit: 1
 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.

Welding I

Prerequisite: Introduction to Welding or Ag. Mechanics
 Grade Placement: 10-12 Credit: 2
 Rapid advances in technology have created new career opportunities and demands in many industries. Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system in order to apply them to personal

career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer their 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.

Welding II

Recommended prerequisite: Welding or Agricultural Mechanics & Metal Technologies

Grade Placement: 11-12 Credit: 2

Advanced Welding builds on knowledge and skills developed in Welding. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates 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.

Engineering – Project Lead the Way

SUBJECT	GRADE	CREDIT
Introduction to Engineering Design	9	1
Principles of Engineering (Prerequisite: Algebra I or Introduction to Engineering Design)	10	1
Digital Electronics (Prerequisite: Algebra I and Principles of Engineering)	11	1
Engineering Design and Development	12	1

Introduction to Engineering Design (IED)

Prerequisite: None

Grades: 9-12

Credit: 1

Grade Points:

In this course, students use 3D solid modeling design software to help them design solutions to solve proposed problems. Students will learn how to document their work and communicate solutions to peers and members of the professional community. The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation.

Engineering Science

Prerequisite: Algebra I or Introduction to Engineering Design Grades: 9-12 Credit: 1

This survey course of engineering exposes students to some of the major concepts they'll encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high-tech careers and to develop skills and understanding of course concepts. Students employ engineering and scientific concepts in the solution of engineering design problems. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students also learn how to document their work and communicate their solutions to peers and members of the professional community.

Digital Electronics (DE)

Prerequisite: Algebra I and Engineering Science; or Algebra II Grades: 10-12 Credit: 1

This course is the study of electronic circuits that are used to process and control digital signals. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, and high-definition televisions. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

Transportation, Distribution & Logistics

SUBJECT	GRADE	CREDIT
Principles of Transportation	9-12	1
Automotive Basics	10-12	1
Automotive Technology I	10-12	2
Automotive Technology II	11-12	2
Practicum Transportation, Distribution & Logistics	12	2

Principles of Transportation

Prerequisite: None

Grades: 9-10

Credit: 1

In Principles of Transportation, Distribution, and Logistics, students gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation, distribution, and logistics 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.

Automotive Basics

Prerequisite: Prin. of Transportation

Grades: 10-12

Credit: 1

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.

Automotive Technology I: Maintenance and Light Repair

Prerequisite: Automotive Basics

Grades: 10-12

Credit: 2

Automotive services include knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Automotive Technology, students gain knowledge and skills in the repair and maintenance of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of operation of automotive vehicle systems and associated repair practices.

Automotive Technology II: Automotive Service

Recommended Prerequisite: Automotive Technology I

Grade Placement: 11-12

Credit: 2

Automotive services include knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Automotive Technology, students gain knowledge and skills in the repair and maintenance of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of operation of automotive vehicle systems and associated repair practices.

Practicum in Transportation Systems

Recommended Prerequisite: Automotive Technology II

Grade Placement: 12

Credit: 2

A paid or unpaid capstone experience for students participating in a coherent sequence of courses in the Transportation, Distribution, and Logistics cluster. 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 experience such as internships, mentorships, independent study, or laboratories.

Agriculture, Food, & Natural Resources				Construction			
Course #	Course	Grade	Credit	Course #	Course	Grade	Credit
Veterinary Science				8665	Business Information Management	9	1
8632	Principles of AFNR	9	1	8608	Construction Technology (1 period)	10,11,12	2
8633	Livestock Production	10,11,12	1	8609	Construction Technology II	11,12	2
8635	Veterinary Medical Applications	10,11,12	1	8610	Practicum in Construction Management	12	2
8636	Advanced Animal Science	12	1	Business, Management, Finance and Administration			
8651	**Practicum in AFNR-Vet Science	11,12	2	Course #	Course	Grade	Credit
8653	**Practicum in AFNR-Vet Science II	12	2	8738	Business Information Management	9	1
Ag. Mechannics				8740	Business Information Management II	10,11,12	1
8632	Principles of AFNR	9	1	8645	Money Matters	10,11,12	1
8639	Agricultural Mechanics and Metal Technologies	10,11,12	1	8773	Business Management	11,12	1
8680	Agricultural Equipment Design and Fab/Lab	11,12	2	8735	Accounting I	10,11,12	1
8679	**Practicum in AFNR-Ag Mech	11,12	2	8736	Accounting II	10,11,12	1
8698	**Practicum in AFNR-Ag Mech II	12	2	Arts, A/V Technology and Communications			
Specialty Ag. Classes				Course #	Course	Grade	Credit
8659	Principles and Elements of Floral Design (FA Credit)	10,11,12	1	8738	Business Information Management	9	1
Information and Technology				8746	Digital Media	10,11,12	1
Course #	Course	Grade	Credit	8737	Animation	10,11,12	1
8738	Business Information Management	9	1	8744	Graphic Design	10,11,12	1
8747	Web Technologies	10,11,12	1	8741	Audio/Video Production	10,11,12	1
8746	Digital Media	10,11,12	1	8785	Audio/Video Production II/Lab	11,12	2
8748	Computer Programming I	10,11,12	1	8743	Practicum in A/V Production	12	2
8749	Computer Programming II	11,12	1	Hospitality and Tourism			
Transportation, Distribution, and Logistics				Course #	Course	Grade	Credit
Course #	Course	Grade	Credit	8738	Business Information Management	9	1
8626	Principles of Transportation	9	1	8613	Intro to Culinary Arts (old Rest. Management)	10,11,12	1
8780	Automotive Basics	10,11,12	1	8614	Culinary Arts	11,12	2
8628	Automotive Technology I (one period)	11,12	2	8646	Advanced Culinary Arts	11,12	2
8629	Automotive Technology II	12	2	8643	Practicum in Culinary Arts	12	2
8630	Practicum in Transportation Systems	12	2	Manufacturing			
Updated 8-28-2017				Course #	Course	Grade	Credit
				8665	Business Information Management	9	1
				8688	Introduction to Welding	10,11,12	1
				8680	Welding I (one period)	11,12	2
				8681	Welding II	11,12	2

Health Science				Law, Public Safety, Corrections, and Security			
Course #	Course	Grade	Credit	Course #	Course	Grade	Credit
8631	Principles of Health Science	9-10	1	Law Enforcement			
8902	Medical Terminology	10,11,12	1	8616	Prin. of Law, Public Safety, Corrections and Security	9	1
8905	Pathophysiology (Sci. Credit)	11,12	1	8617	Law Enforcement I	10,11,12	1
5311	Anatomy and Physiology (Sci. Credit)	11,12	1	8619	Court Systems and Practices	10,11,12	1
	Health Science Theory	11	1	8618	Law Enforcement II	11,12	1
8903	Practicum in Health Science	12	2	Legal Assistant (May not offer)			
Education and Training				8616	Prin. of Law, Public Safety, Corrections and Security	9	1
Course #	Course	Grade	Credit	8619	Court Systems and Practices	10,11,12	1
8620	Principles of Human Services	9	1		Introduction to Paralegal (online/dual credit)	11,12	0.5
8906	Human Growth and Development	10,11,12	1		Introduction to Law (online/dual credit)	11,12	0.5
8600	Instructional Practices	11,12	2		Family Law (online/dual credit)	12	0.5
8601	Practicum in Education and Training	12	2		Criminal Law and Procedure (online/dual credit)	12	0.5
Human Services				STEM - Engineering Pathway			
Course #	Course	Grade	Credit	Course #	Course	Grade	Credit
8620	Principles of Human Services	9	1	8690	Introduction to Engineering Design	9	1
8603	Child Development	10,11,12	1	8930	Digital Electronics	10,11,12	1
8906	Human Growth and Development	10,11,12	1	8691	Engineering Science	11,12	1
8596	Counseling and Mental Health	10,11,12	1	8697	Engineering Design and Development	12	1
8645	Money Matters	10,11,12	1	Updated 8-28-2017			
8778	Interpersonal Studies	10,11,12	0.5				
8611	Lifetime Nutrition and WellNess	10,11,12	0.5				
Cosmetology							
8620	Principles of Human Services	9	1				
8645	Money Matters	10,11,12	1				
8621	Cosmetology I (taken at Nav. College)	11,12	2				
8622	Cosmetology II (taken at Nav. College)	12	2				