

A/C, REFRIGERATION, AND HEATING TECHNOLOGY

8713010X

Air Conditioning, Refrigeration, and Heating Technology 1

Stresses the understanding of the technical skills required for the heating, air conditioning, refrigeration, and ventilation industries. Includes elements of planning, management, finance, safety, and environmental issues.

8713020X

Air Conditioning, Refrigeration, and Heating Technology 2

Technical skills needed to fabricate and service piping, tubing, and fittings used in the heating, air conditioning, and refrigeration industry.

8713030X

Air Conditioning, Refrigeration, and Heating Technology 3

Students demonstrate a practical knowledge of the electrical components of heating, air conditioning, and refrigeration equipment.

8713040X

Air Conditioning, Refrigeration, and Heating Technology 4

Apply principles of heating, air conditioning, and refrigeration. Assist in the installation of residential heating and air conditioning systems.

ACCOUNTING APPLICATIONS

8207310X

Digital Information Technology

Basic overview of current business and information systems and trends. Emphasis on developing fundamental computer skills and includes the opportunity for MOS certification in Word, Excel and PowerPoint.

8203310X

Accounting Applications 1

Introduction to the accounting cycle and emphasizes double-entry accounting and the preparation of financial statements. The use of computers is required.

8203320X

Accounting Applications 2

Continues the study of accounting principles. Content includes voucher systems, cash receipts, petty cash, payroll records and internal control systems.

ADMINISTRATIVE OFFICE SPECIALIST

8207310X

Digital Information Technology

Basic overview of current business and information systems and trends. Emphasis on developing fundamental computer skills and includes the opportunity for MOS certification in Word, Excel and PowerPoint.

8212120X

Business Software Applications 1

This course is designed to develop proficiency in using the advanced features of software programs to perform office-related tasks.

8212160X

Business Software Applications 2

This course is designed to use technology to produce high quality employment portfolios, research job opportunities, and compile and disseminate job-seeking documents.

ADVANCED MANUFACTURING TECHNOLOGY

9200210X

Advanced Manufacturing 1

Students gain an understanding of technology and the concept of Design for Manufacturing, workplace safety and organization, communication skills, and basic machine operation.

9200220X

Advanced Manufacturing 2

Emphasizes skills key to the manufacturing industry. Students study blueprint reading, computer-aided design, quality control concepts; precision measurement tools, and understanding modern business practices.

9200230X

Advanced Manufacturing 3

Prepares students for entry into the advanced manufacturing industry. Topics include: production processes; computer-aided manufacturing, lathe and milling machines, computer-numeric-control machines, and welding systems; and robotic systems.

APPLIED ENGINEERING TECHNOLOGY

8401110X

Applied Engineering Technology I

This program provides students with a foundation of knowledge and technical experiences in the study of engineering

and prepares students for postsecondary engineering programs by developing an in-depth mastery of associated mathematics, science, and technology knowledge and skills with opportunities to further their mastery of engineering-related design solutions to real world problems.

8401120X

Applied Engineering Technology II

This course provides students with opportunities to further their mastery of engineering-related math and science principles to design solutions to real world problems. The course also includes a more in-depth look into the relationship between technology and design.

8401130X

Applied Engineering Technology III

The course features multiple options for providing context-based projects oriented to specific fields of engineering. This feature enables instruction in complex projects involving multi-faceted project teams by providing instruction oriented to four key engineering disciplines: mechanical, electrical, civil, and environmental.

APPLIED ROBOTICS

9410110X

Foundations of Robotics

Provides a foundation in content and skills associated with robotics and automation, artificial intelligence, electronics, physics, and principles of engineering.

9410120X

Robotic Design Essentials

Students study the operation of robotics, artificial intelligence, sensors, electronic devices, engineering technologies, motion physics, electrical motors, programming, simulation and modeling, and critical thinking skills.

9410130X

Robotic Systems

Extended content and skills essential to the design and operation of robotic systems, environmental physics, manufacturing, topographical considerations, programming, communications, simulation and modeling.

ARCHITECTURAL DRAFTING Secondary

8725010X

Drafting 1

This course provides students with fundamental knowledge and skills of architectural drawing using Autodesk Revit software, a three dimensional parametric modeling application. Along with acquiring language arts and mathematics

knowledge and skills, students will be able to prepare multi-view drawings, prepare sectional views, prepare auxiliary drawings, apply basic dimensioning and describe the importance of professional ethics and legal responsibilities.

**8725020X
Drafting 2**

This course provides students with intermediate knowledge and skills of architectural drawing using Autodesk Revit software, a three dimensional parametric modeling application. Along with acquiring language arts and mathematics knowledge and skills, students will be able to use information technology tools, prepare pictorial drawings, prepare surface developments, prepare basic architectural drawings, solve problems using critical thinking skills, creativity and innovation, demonstrate understanding of civil drawings and demonstrate basic electrical/electronic literacy.

**8725030X
Drafting 3**

This course provides students with advanced knowledge and skills of architectural drawing using Autodesk Revit software, a three dimensional parametric modeling application. Along with acquiring language arts and mathematics knowledge and skills, students will understand how to work within teams, demonstrate an understanding of health, safety and environmental management systems, construct geometric figures, utilize editing commands, control drawing properties by layer, color and line type and demonstrate proficiency in using Revit modeling software by attainment of the student industry credential.

**8725040X
Drafting 4**

This course provides students with advanced knowledge and skills of architectural drawing using Autodesk Revit software, a three dimensional parametric modeling application. Along with acquiring language arts and mathematics knowledge and skills, students will design, develop, draw and construct an individual architectural model, demonstrate applied math skills, demonstrate science knowledge and skills, demonstrate personal money-management concepts and practices, demonstrate leadership and teamwork skills, and develop employability and entrepreneurship skills.

**AUTOMOTIVE COLLISION
Technology**

**9514010X
Automotive Collision Paint & Body Assistant**

Introduction to use of hand and power tools, panel repairs, use of spray equipment, application of body fillers,

paint systems and materials, glass replacement and use of welders. The course content will include the following: basic trade skills, communication, leadership, human relations and employability skills and safe, efficient work practices. Hands-on technical activities are an integral part of the program.

**9514020X
Automotive Collision Paint & Refinishing Assistant 1**

Application of refinishing skills, sheet metal repair skills, frame aligning, use of fillers, paint systems and undercoats, related welding skills, related mechanical skills, trim-hardware maintenance, glass servicing, and other miscellaneous repairs.

**9514030X
Automotive Collision Paint & Refinishing Assistant 2**

Projects and research using refinishing skills, sheet metal repair skills, frame aligning, use of fillers, paint systems and undercoats, related welding skills, related mechanical skills, trim-hardware maintenance, glass servicing, and other miscellaneous repairs.

**9514040X
Automotive Collision Paint & Refinishing Assistant 3**

Instruction in the application of procedures for occupational safety skills and preparation of vehicles for repair. Advanced skills in damage assessment and repair, damage reports at industry standards and standard specifications and crash manual documentation.

**9514050X
Automotive Collision Non Structural Damage Assistant 1**

Instruction in various procedures for in structural damage analysis and repair of vehicle structure. Learn to assess damage to auto parts, develop plans for repair and measure and pull frames using manufacture specifications.

**AUTOMOTIVE
MAINTENANCE & LIGHT
REPAIR**

**9504110X
Automotive Maintenance & Light Repair 1**

Introduction to the basics of automotive mechanics, including automotive systems, tools, basic service, and safety practices.

**9504120X
Automotive Maintenance & Light Repair 2**

Routine maintenance/ consumer services, in heating, air conditioning and engine cooling systems, and in engine theory and repairs.

**9504130X
Automotive Maintenance & Light Repair 3**

Diagnosing, troubleshooting electrical and electronic components related to power train and engine performance service.

**9504140X
Automotive Maintenance & Light Repair 4**

Operation and servicing of automotive brake systems, heating, air conditioning and engine cooling systems, and in the operation and servicing of manual drive trains and axles.

**9504150X
Automotive Maintenance & Light Repair 5**

Operation of steering, suspension and wheel systems, engine theory and repairs, and in engine performance service.

**AVIATION ASSEMBLY &
FABRICATION**

**9540610X
Private Pilot Ground School**

Students explore career opportunities and requirements of a professional aviation pilot/mechanic. Topics include: shop safety, fundamentals of flight, FAA regulations, meteorology, communications, propulsion, navigation systems, flight planning, safe aircraft operation and principles, flight training processes, and airport environments.

**9540710X
Aviation Assembly Technician 1**

Provides students with an introduction to the knowledge, human relations, and technical skills of aviation maintenance & fabrication technology.

**9540720X
Aviation Assembly Technician 2**

Students study human relations, and technical skills of aviation maintenance & fabrication technology.

**9540730X
Aviation Assembly Technician 3**

Advanced studies and skill development in the technical skills of aviation maintenance & fabrication technology.

**BUILDING
CONSTRUCTION
TECHNOLOGIES**

**8720310X
Building Construction Technologies 1**

The purpose of this course is to develop the competencies essential to the building construction industry. These

competencies include skills and knowledge related to safety practices, the proper use of hand and power tools, plan reading, basic rough carpentry and framing.

8720320X**Building Construction Technologies 2**

The purpose of this course is to develop the competencies necessary for the building, construction and repair industry. These competencies relate to construction components, materials and hardware, concrete and masonry skills.

8720330X**Building Construction Technologies 3**

This course is designed to provide students with a more in-depth knowledge of construction documents, as well as competencies in construction management. These include heavy equipment selection, knowledge of codes and regulations, site preparation, estimating, scheduling and knowledge of sustainability issues relevant to the construction industry.

CRIMINAL JUSTICE OPERATIONS

8928010X**Criminal Justice Operations 1**

Introduction to the fields of law enforcement, the court and correctional system, career opportunities in these fields, interpersonal, communication, and employability skills.

8928020X**Criminal Justice Operations 2**

This course is designed to develop competencies in patrol, traffic control, defensive tactics and physical proficiency skills, and first aid and CPR skills.

8918030X**Criminal Justice Operations 3**

Develops competencies in crime and accident investigation procedures, forensic science tasks, crime prevention, and property control procedures.

CULINARY ARTS

8800510X**Culinary Arts 1**

This course is designed to acquaint students with procedures in a commercial kitchen. Topics covered include safety, breakfast, vegetable, and starch cookery. The second semester is based on commercial baking and includes breads, cakes, and pies. Lab fee required.

8800520X**Culinary Arts 2**

Students will acquire knowledge and skill in the preparation of food. Included are basic principles and techniques of food preparation, use of recipes, use and care of equipment. The student will acquire the knowledge, principles, and skills necessary for service and quantity food preparation used by cafeterias, restaurants, and institutions. ServSafe®, Certified Professional Food Manager (NRLAEF), credential will be attained by students. Lab fee required. This course requires block course with Culinary Arts 3, 8800530X.

8800530X**Culinary Arts 3**

This course will illustrate the fundamentals of pastry science, equipment, technology, ingredients, formula conversions, and costing. Product preparations will include cakes, icings, fillings, puff pastries, classical pastries and petit fours. Designed to develop the student's understanding and skills appropriate to a variety of cooking techniques typical of various regions throughout the world. Diversity of menu, available foods, ingredients, and cultures will be studied. Students will have the opportunity to prepare complete meals typical of several cultures during the term. You'll research and prepare representative regional menu items from the European, American, Asian, and African continents. Timing, organization, mise en place, and plate presentation are stressed. Contemporary trends will be included. Lab fee required. This course requires block course with Culinary Arts 2, 8800520X.

8800540X**Culinary Arts and Hospitality Management**

Qualified students will learn and practice kitchen management as it relates to food cost, item analysis, employee management and prepare various meals and food products. Students enrolled in this course will have earned the ServSafe Food Protection Manager Exam in Culinary 2 and are projected to earn the ProStart Certificate of Achievement.

DENTAL AIDE

8417100X**Health Science Anatomy & Physiology**

This course is part of the secondary Health Core consisting of an overview of the human body, both structurally and functionally with emphasis on the pathophysiology and transmission of disease. Medical terminology is an integral part of the course.

8417110X**Health Science Foundations**

This course is part of the Secondary Health Core designed to provide the student with an in depth knowledge of the health care system and associated occupations. Emphasis is placed on communication and interpersonal skills, use of technology, ethics and the development of critical thinking and problem solving skills. Students may shadow professionals throughout the course.

8417141X**Dental Aide 3**

Use dental terminology; identify equipment, specialty procedures, and functions and pathologies of dental anatomy. Learn legal and ethical responsibilities of the dental health care worker.

DIGITAL DESIGN

8207310X**Digital Information Technology**

Basic overview of current business and information systems and trends. Emphasis on developing fundamental computer skills and includes the opportunity for MOS certification in Word, Excel and PowerPoint.

8209510X**Digital Design 1**

Develops basic entry-level skills required by the digital publishing industry. Includes computer skills, digital publishing concepts and operations, layout, design and digital imaging.

8209520X**Digital Design 2**

Continues the development of basic entry-level skills required by the digital publishing industry.

8209530X**Digital Design 3**

Application of industry-standard skills and includes the use of a variety of software and equipment to perform digital publishing and digital imaging activities.

DIGITAL MEDIA/MULTI-MEDIA DESIGN

8201210X**Digital Media/Multimedia Foundations 1**

This course provides competencies in presentation production issues, basic computer knowledge, illustration software, digital still photography, and photo editing software.

8201220X
Digital Media/Multi Media
Foundations 2

This course provides additional competencies in interactive presentation production, digital still photography and photo editing software, including advanced design, color modes, and fonts.

8201230X
Digital Media/Multimedia
Foundations 3

This course covers competencies in design layout software.

8201260X
Digital Media/Multimedia
Foundations 6

This course covers competencies in web page design, HTML and CSS, and software authoring for webpage design.

DRAFTING

8725010X
Drafting 1

This course provides students with fundamental knowledge and skills of architectural drawing using Autodesk Revit software, a three dimensional parametric modeling application. Along with acquiring language arts and mathematics knowledge and skills, students will be able to prepare multi-view drawings, prepare sectional views, prepare auxiliary drawings, apply basic dimensioning and describe the importance of professional ethics and legal responsibilities.

8725020X
Drafting 2

This course provides students with intermediate knowledge and skills of architectural drawing using Autodesk Revit software, a three dimensional parametric modeling application. Along with acquiring language arts and mathematics knowledge and skills, students will be able to use information technology tools, prepare pictorial drawings, prepare surface developments, prepare basic architectural drawings, solve problems using critical thinking skills, creativity and innovation, demonstrate understanding of civil drawings and demonstrate basic electrical/electronic literacy.

8725030X
Drafting 3

This course provides students with advanced knowledge and skills of architectural drawing using Autodesk Revit software, a three dimensional parametric modeling application. Along with acquiring language arts and mathematics knowledge and skills, students will understand how to work within teams, demonstrate an understanding of health, safety and environmental management systems, construct geometric figures,

utilize editing commands, control drawing properties by layer, color and line type and demonstrate proficiency in using Revit modeling software by attainment of the student industry credential.

8725040X
Drafting 4

This course provides students with advanced knowledge and skills of architectural drawing using Autodesk Revit software, a three dimensional parametric modeling application. Along with acquiring language arts and mathematics knowledge and skills, students will design, develop, draw and construct an individual architectural model, demonstrate applied math skills, demonstrate science knowledge and skills, demonstrate personal money-management concepts and practices, demonstrate leadership and teamwork skills, and develop employability and entrepreneurship skills.

EARLY CHILDHOOD EDUCATION

(High School Course Offerings)

8405110X

Early Childhood Education 1

Covers competencies for the 30 hour DCF mandated training and the 10 hour preschool appropriate practices course.

8405120X

Early Childhood Education 2

This course covers competencies on professionalism, community resources, the importance of relationship skills and communicating with children's families, use of technology in the child care profession, and observing and recording methods.

8405140X

Early Childhood Education 4

Applications of competencies in mentoring, workshop development, team building, advocacy, brain research and professional development prepare students to be child development specialists.

(Dual Enrollment Course Offerings)

EEC 1942X

Early Childhood Practicum

This course provides students with the opportunity to observe children and gain experience in student teaching. Students will learn to provide a safe and healthy learning environment, as well as plan, implement and evaluate lesson plans for young children.

EEC 1200X

Early Childhood

Preparation of child learning centers through choosing and constructing learning materials used in instructing children in music, art, math, science, literacy, fine and gross motor skills. One of three courses that combined meets the

CDAE requirements for the state of Florida. Music, art, math, science, literacy, and fine and gross motor. One of three courses that combined meets the CDAE requirements for the State of Florida.

EEC 2710X

Conflict Resolution in Early Childhood

Students will learn create safe, caring and respectful learning environments for young children and their families using professional techniques. One of three courses that combined meets the CDAE requirements for the State of Florida.

EEC 2251X

Developing Curriculum for Infants and Toddler

Students will study the physical, social, emotional, and cognitive development of infants and toddlers while participating in the care giving environment.

EMERGENCY MEDICAL RESPONDER

8417100X

Health Science Anatomy & Physiology

This course is part of the secondary Health Core consisting of an overview of the human body, both structurally and functionally with emphasis on the pathophysiology and transmission of disease. Medical terminology is an integral part of the course.

8417110X

Health Science Foundations

This course is part of the Secondary Health Core designed to provide the student with an in depth knowledge of the health care system and associated occupations. Emphasis is placed on communication and interpersonal skills, use of technology, ethics and the development of critical thinking and problem solving skills. Students may shadow professionals throughout the course.

8417171X

Emergency Medical Responder 3

This is an instructional program that prepares individuals to provide initial care to sick or injured persons or as ambulance drivers and attendants. An Emergency Medical Responder may use this training for employment. The Emergency Medical Responder is the first to arrive at the scene of an injury but does not have the primary responsibility for treating and transporting the injured person(s). Emergency Medical Responders may include law enforcement, life guard, fire services or basic life support non-licensed personnel who act as part of an organized emergency medical services team.

ENGINEERING PATHWAYS (PLTW)

8600550X

Introduction to Engineering Design

Course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using solid modeling computer design software.

8600520X

Principles of Engineering

Helps students understand the field of engineering by exploring various technology systems and manufacturing processes.

8600530X

Digital Electronics

Course in applied logic that encompasses the application of electric circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices.

8600620X

Aerospace Engineering

Introduces students to the world of aeronautics, flight, and engineering.

8600650X

Engineering Design and Development

Provides students with an advanced understanding of the knowledge, human relations, and technological skills found in the engineering profession.

ENVIRONMENTAL WATER & RECLAMATION TECHNOLOGY

8007110X

Introduction to Environmental Water Technology

This course is designed to develop competencies in the area of hydrology, safety skills and procedures, geological principles of water resources, management of wetlands, storm water systems, environmental water resources, equipment and facility maintenance, scientific and research concepts; principles of leadership; and employability, and human relations skills. Laboratory-based activities are an integral part of this course. These include the safe use and application of appropriate technology, scientific testing and observation equipment.

8007120X

Intermediate Environmental Water Technology

This course is designed to develop competencies in the area of standards

and regulations, site assessments, safety, managing data and physical resources, prepare a plan, perform remediation, collect and dispose of solid waste, record keeping and sampling procedures, career opportunities, leadership, teamwork, and money management concepts. Laboratory-based activities are an integral part of this course. These include the safe use and application of appropriate technology, scientific testing and observation equipment.

8007130X

Advanced Environmental Water Technology

This course is designed to develop competencies in the area of career opportunities, scientific concepts in water treatment, safety hazards, government regulations, facility operational principles, and equipment inspections. Laboratory-based activities are an integral part of this course. These include the safe use and application of appropriate technology, scientific testing and observation equipment. This course prepares students for the Florida Department of Environmental Protection Operator Certification Program Level C Examination.

8007210X

Advanced Environmental Water Reclamation Technology

This course focuses on the techniques and procedures performed by an operator during the collection, treatment, and disposal processes of domestic wastewater.

EXERCISE SCIENCE

8417100X

Health Science Anatomy & Physiology

This course is part of the secondary Health Core consisting of an overview of the human body, both structurally and functionally with emphasis on the pathophysiology and transmission of disease. Medical terminology is an integral part of the course.

8417110X

Health Science Foundations

This course is part of the Secondary Health Core designed to provide the student with an in depth knowledge of the health care system and associated occupations. Emphasis is placed on communication and interpersonal skills, use of technology, ethics and the development of critical thinking and problem solving skills. Students may shadow professionals throughout the course.

8417120X

Exercise Science

This course prepares students to be employed as Personal Trainers. Content

includes, but not limited to, identifying and practicing within the appropriate scope of practice for a personal trainer, develop and implement exercise programs for apparently healthy individuals or those who have medical clearance to exercise, proficiency in the appropriate fitness equipment used, as well as a foundation in the musculo-skeletal system of the body.

FASHION TECHNOLOGY AND DESIGN SERVICES

8506405F

Design Services Core

Introduction to operation and maintenance of a conventional sewing machine and garment construction, employment opportunities, basic skills, leadership and organizational skills, selection, usage and care of tools, equipment and supplies, textile characteristics and care, and safety procedures.

8506410X

Principles of Fashion Tech Design Services

Operate sewing machines, safety procedures, material selection and preparation, tools, usage, and selection of specialized equipment including a serger and intermediate - advanced garment construction.

8506420X

Pattern Design Techniques

Apply and understand advanced garment industry components, textile qualities, commercial sewing skills, garment alteration, employability skills, and entrepreneurship in the apparel industry.

8506430X

Fashion Design Specialist

This course is the fourth course in the Fashion Design Services program. It is designed to further develop competencies in the area of fashion design services. This course focuses on five specialty areas of fashion design services; window display, fashion design assistant, tailor's assistant, personal shopper, and stylist.

FINANCE

8815150X

Business Communication & Technology

An overview of current business, finance, and information trends. Emphasis is placed on developing proficiency with fundamental computer applications and opportunities to earn MOS industry certification in Word, Excel, and PowerPoint.

8815110X**Economics and Financial Services**

Basic principals in macro and microeconomics. Additional emphasis placed on money, credit, banking, and modern trends in the finance industry.

8815120X**Personal Finance**

Organization in planning for the use of economic resources and financial products available through a study of savings, credit, insurance, banking and financial goals.

8815130X**Financial Internship**

These internships provide students the opportunity to demonstrate human relations, communications and employability skills necessary for entry-level employment in the financial services industry.

8203310X**Accounting Applications I**

Introduction to the accounting cycle and basic accounting concepts. Emphasis is placed on the use of special journals, ledgers, controlling accounts, as well as analysis and interpretation of financial reports.

GAME / SIMULATION / ANIMATION / PROGRAMMING

8208110X**Game & Simulation Foundations**

An introduction to game and simulation concepts and careers and basic game/simulation design concepts such as rule design, play mechanics, and media integration

8208120X**Game & Simulation Design**

Fundamental principles of designing a game or a simulation application, rules and strategies of play, conditional branching, design and development constraints, use of sound and animation, design tools, and implementation issues. Emphasis is placed on the techniques needed to develop well-documented, structured game or simulation programs.

8208330X**Game & Simulation Programming**

This course is focused on students acquiring the appropriate programming skills for rendering a game or simulation product, including program control, conditional branching, memory management, score-keeping, timed event strategies and methodologies, and implementation issues.

8208340X**Multi User Game & Simulation Programming**

This course is focused on students acquiring the appropriate programming skills for rendering a game or simulation product, including program control, conditional branching, score-keeping, timed event strategies and methodologies, and implementation issues specific to multi-user game/simulation products.

GEOSPATIAL / GEOGRAPHIC INFORMATION SYSTEMS (GIS) TECHNOLOGY

8600260X**Introduction to GIS Technology**

Specific areas of focus include fundamental GIS and remote sensing concepts, project management strategies, and essential basic computer skills.

8600270X**Essential GIS Tools & Processes**

Mapping and cataloging numerous geospatial applications applying the techniques of displaying, managing, querying, symbolizing, and creating geospatial data for advanced GIS/RS projects.

8600280X**GIS Analysis & Modeling**

Directs students through applications of surface analysis, displaying and processing data, non-elevation 3-D, raster and vector data, animating data, and exporting projects.

8600290X**Advanced GIS Applications**

Project-based capstone course challenging students to apply all skills and techniques to create extensive GIS/RS projects.

INTERIOR DESIGN SERVICES

8506405I**Design Services Core**

Introduction to the basic skills for working in design services, leadership and organizational skills, basic principle of design, textile characteristics and care, employability skills, relationship of human factors to design services, safe use of tools and equipment, and selection of appropriate materials.

8506540X**Principals of Interior Design Services**

Students further develop competencies in the area of interior design services including employment opportunities, basic skills, the elements and principle of design,

and sales techniques and entrepreneurship.

8506550X**Interior Design Techniques**

Designed to further develop competencies in the area of interior design, this course includes components of the design process, the effect of history and culture on design, sketching and free hand drawing, the impact of human, environmental and ergonomic factors on design, rendering techniques and the development of a design project.

8506560X**Interior Design Specialist**

Focus is on specialty areas, kitchen and bath design, floor, wall and window treatments, furniture, lighting and accessories; audio and visual and security systems. Student will develop a design project and finalize and submit a portfolio.

INTERNATIONAL BUSINESS

8207310X**Digital Information Technology**

Basic overview of current business and information systems and trends. Emphasis on developing fundamental computer skills and includes the opportunity for MOS certification in Word, Excel and PowerPoint.

8203310X**Accounting Applications 1**

This course emphasizes double-entry accounting; methods and principles of recording business transactions; the preparation of various documents used in recording income, expenses, acquisition of assets, incurrence of liabilities, and changes in equity; and the preparation of financial statements.

8216110X**International Business Systems**

This course is designed to prepare students to live and work in a global economy. Students develop an understanding of business principles, management styles, economics, and customs which affect business systems in the international environment

8216120X**International Finance and Law**

This course is designed to introduce students to the laws and regulations governing international trade including knowledge of import-export activities, banking, treaties, and currency exchange rates.

MACHINING TECHNOLOGY

9202110X

Machining Technology 1

Students explore career opportunities and requirements of a professional machinist. Topics include: safety and organization blueprints, precision measurement, bench-work skills, and the history of manufacturing.

9202120X

Machining Technology 2

Content emphasizes knowledge of manufacturing processes, generating computer-aided design drawings, precision measurement, power saws, grinders, drill presses, and understanding employability and entrepreneurship skills.

9202130X

Machining Technology 3

Content emphasizes knowledge of working in the machining industry. Topics include: teamwork & critical thinking skills, mathematics, quality control and inspection, plan machining operations, CAD/CAM processes, and set-up and program a CNC machine for lathe operations.

MARITIME TECHNOLOGY

8404110X

Maritime 1

This course provides students with an understanding of the field of maritime studies by developing an in-depth mastery of maritime industry related concepts and their relationship to the business of shipping. The Maritime program works in close partnership with Port Canaveral

8404120X

Maritime 2

This course provides students with opportunities to further their mastery on maritime related concepts in preparation for postsecondary education and the world of work. The course builds on material presented in Maritime 1 by increasing the depth and breadth of student knowledge.

8404130X

Maritime 3

Students will take field trips to the port, discover the vast career options the port has to offer and in time, intern with and shadow professionals in the maritime industry. The course builds on material presented in Maritime 2.

MARKETING, MANAGEMENT AND ENTREPRENEURIAL PRINCIPLES

8827110X

Marketing Essentials

Develop fundamentals skills of marketing and selling as well as human relations, employability, communication, and economic skills.

8827120X

Marketing Applications

In-depth study of marketing in a free enterprise society and skills required for entry level employment in a wide variety of marketing occupations.

8827130X

Marketing Management

Applying skills related to marketing functions and required for success in the marketing industry.

8800410X

Marketing Cooperative Education – OJT

Enhance and further develop marketing competencies through a paid, supervised, on-the-job training experience.

MEDICAL ADMINISTRATIVE SPECIALIST

8207310X

Digital Information Technology

Basic overview of current business and information systems and trends. Emphasis on developing fundamental computer skills and includes the opportunity for MOS certification in Word, Excel and PowerPoint.

8212201X

Medical Office Technology 1

This course is designed to assist with administrative office duties and procedures specific to the medical environment. The course explores and expands the competencies learned in Administrative Office Technology 1 and promotes application of higher level office procedures tasks and communication skills.

8212202X

Medical Office Technology 2

This course expands the competencies learned in Medical Office Technology 1. Students are required to perform higher level thinking and decision making and to use technology as a resource to efficiently perform systematic procedural tasks and to produce quality work in an efficient manner.

NURSING ASSISTANT (PATIENT CARE ASSISTANT)

HSC 1000X

Introduction to Health Care

The course focuses on core concepts common to all health care occupations. Content includes health care delivery systems with emphasis on health occupations, communication skills, legal and ethical responsibilities, wellness and disease concepts, infection control, CPR, introductory first aid and safety, medical terminology, employability and computer skills. Students will receive AHA CPR, oxygen therapy and tank transport skills. This course requires dual enrollment with EFSC.

HSC 1532X

Advanced Medical Terminology

Advanced review of medical language used throughout the healthcare delivery system. Emphasis is placed on anatomy, physiology and pharmaceutical terms. Emphasis will also be placed on the ability to infer understanding of medical subjects, communicate utilizing medical terminology with proper pronunciation and spelling. This course requires dual enrollment with EFSC.

HSC 0003X

Basic Healthcare Worker

Classroom, laboratory, and clinical instruction prepare students to function as a member of the health-care team in varied settings and roles.

HCP 0621X

Articulated Nursing Assistant

Classroom, laboratory and clinical course prepares for employment as a Nursing Assistant. Basic patient care principles and the role of the Nursing Assistant in delivering resident care. Content includes nutrition, physical comfort and safety functions, personal patient care, and infection control. Special emphasis is placed on the care of the geriatric resident in the long-term care setting.

HCP 0332X

Advanced Home Health Aid

Florida requirements for the Home Health Aide including classroom and clinical experience. Includes skills and knowledge in communication, legal and ethical responsibilities, comfort and safety functions, nutrition and infection control.

HCP 0020X

Patient Care Assistant

Clinical experiences, at a local hospital, including the care of patients with acute common health problems, pre- and post-op patients and special procedures.

8400100X**Health Science Education Directed Study**

The purpose of this course is to provide students with learning opportunities in a prescribed program of study within the Health Science cluster that will enhance opportunities for employment in the career field chosen by the student.

NUTRITION AND FOOD SCIENCE**8801101X****Nutrition and Food Science**

Content includes but is not limited to instruction in the application of biological, chemical, and physical principles of converting raw agricultural products into processed forms for human consumption and safe food preparation, handling, packaging, food storage and distribution, and related aspects of human health and safety including toxicology and pathology. Qualified students may sit for the ServSafe Food Protection Manager Exam.

OUTBOARD MARINE SERVICE TECHNOLOGY**9504210X****Outboard Marine Service 1**

Introduction to marine industry standards, including basic maintenance and repair of four-stroke engines, two-stroke engines, and electrical systems.

9504220X**Outboard Marine Service 2**

Concentrates on routine maintenance of fuel systems, two-stroke cycle carburetors and marine trailers. Skills are developed in sales, communications, math, science, employability, and entrepreneurship.

9504230X**Outboard Marine Service 3**

Focus on the skills needed to be parts specialist and computer skills needed in the marine service industry. Maintenance and repair of cooling and lubrication systems are a significant component of lab activity.

9504240X**Outboard Marine Service 4**

Maintenance and repair of two-stroke cycle outboard engines, outboard fuel systems, and cooling systems.

9504250X**Advanced Marine Technology 1**

Outboard lubrication systems, lower cases, cranking systems, and magneto systems.

9504260X**Advanced Marine Technology 2**

Maintenance and repair of outboard battery ignition systems, capacitor discharge ignition systems, and outboard charging systems.

PRINCIPLES OF TEACHING**8909010X****Introduction to the Teaching Profession**

This course is designed to focus on the profession of teaching and related with an emphasis on identifying the current, historical, philosophical and social perspectives of American education, including trends and issues.

8909020X**Human Growth and Development**

This course prepares students to understand the nature of human development from conception through adolescence with an emphasis on theories of physical, cognitive, and psychosocial development, the effect of heredity and the environment, the role of caregivers and the family, health and safety concerns, and contemporary issues.

8909030X**Foundations of Curriculum and Instruction**

This course is designed for students to develop the knowledge and skills of curriculum delivery models in response to the developmental needs of all children.

8909040X**Principles of Teaching Internship**

The course is designed as an internship for students to apply their knowledge in real world education settings.

PUBLIC SAFETY TELECOMMUNICATION**9101100X****Dispatcher: Police, Fire, Ambulance**

This course provides knowledge and skills needed to prepare for further education and careers in Law, Public Safety & Security career cluster. This program will prepare students for employment as a dispatcher; police, fire, ambulance.

TECHNICAL DESIGN**8401010X****Technical Design 1**

This program provides students with instruction in the characteristics and evolution of technology, underlying

principles of design, and fundamental knowledge and skills in the use of illustration and drafting software, architectural design, technical illustration, and advanced imaging techniques.

8401020X**Technical Design 2**

Students learn more about the nature of design and drafting techniques for architectural purposes. Students are also provided with instruction in a variety of technical illustrations commonly produced to depict architectural concepts and designs. Students are expected to continue collating their portfolio using exemplars of their work.

8401030X**Technical Design 3**

This course provides students with instruction in advanced imaging techniques relative to both static and animated illustrations. In addition to learning more advanced techniques, students will have an opportunity to research a project, design an appropriate solution, and present their results. The ultimate output of this course is the student's presentation of a completed portfolio illustrating their best exemplars.

TELEVISION PRODUCTION TECHNOLOGY**8201510X****Television Production Technology 1**

Introduction to overall production of television studio activities including scripts, lighting, filming and directing, electronic news gathering, field production, communication skills, leadership skills, human relations and employability skills, safe and efficient work practices. Studio activities are an integral part of this program. Instruction in camera principles, audio and video control, lighting methods, control room operation, station operation, and set preparation.

8201520X**Television Production Technology 2**

Application of overall production of television studio activities including scripts, lighting, filming and directing, electronic news gathering, and field production, communication skills, leadership skills, human relations and employability skills, safe and efficient work practices.

820153030X**Television Production Technology 3**

Research and advanced application of overall production of television studio activities including scripts, lighting, filming and directing, electronic news gathering and field production, communication skills, leadership skills, human relations and

employability skills and safe and efficient work practices.

WEB APPLICATION DEVELOPMENT & PROGRAMMING

9007210X

Foundations of Programming

This course introduces concepts, techniques, and processes associated with computer programming and software development.

9007220X

Procedural Programming

Computer programming concepts with a focus on the creation of software applications employing procedural programming techniques.

9007510X

Web Programming

Computer programming concepts specific to the Internet and Internet-based software applications.

9007520X

Java Script Programming

Computer programming concepts specific to client-side JavaScript.

INTERACTIVITY ESSENTIALS

9001160

This course provides instruction on technologies and techniques for enhancing the interactivity of websites from both site visitor and administration perspectives. Students will have the opportunity to earn the Adobe Animate industry certification.

WEB DEVELOPMENT

8207310X

Digital Information Technology

Basic overview of current business and information systems and trends. Emphasis on developing fundamental computer skills and includes the opportunity for MOS certification in Word, Excel and PowerPoint.

9001110X

Foundations of Web Design

This course is designed to provide students with opportunities to acquire and apply foundational skills related to web design.

9001120X

User Interface Design

Provides advanced concepts used in interface design. Content includes principles of Human Computer Interface (HCI), advanced page design using Cascading Style Sheets (CSS), advanced HTML commands, multimedia applications, Internet/Intranet tools, and website promotion.