

## Program of Study Course Descriptions

- Architectural Design explores developing, engineering, and designing building structures. Including collecting and interpreting geographic information, researching and preparing maps, and interior design.
- Digital Communications explores the production of audio and visual media formats for various purposes, such as TV broadcasts, advertising, video production, or motion pictures. Exposure to operating machines and equipment to record sound and images, such as microphones, sound speakers, video screens, projectors, video monitors, sound and mixing boards, and related electronic equipment.
- Graphic Design and Multimedia Arts explores designing graphics to meet specific commercial needs, such as packaging, displays, or logos. Includes creating clothing, accessories, special effects, animation, or other visual images using film, video, computers, or other electronic tools and media, for use in computer games, movies, music videos, and commercials.
- Accounting and Financial Services examines, analyzes, and interprets financial records. Students will learn skills necessary to perform financial services, prepare financial statements, interpret accounting records, give advice, audit and evaluate statements prepared by others using mathematical modeling tools.
- Business Management teaches how to plan, direct, and coordinate administrative services and operations of an organization. Student will learn the skills to formulate policies, manage daily operations, allocate the use of materials and human resources. Introduces students to mathematical modeling tools and organizational evaluation methods.
- Entrepreneurship teaches how to plan, direct, and coordinate the management and operations of public or private sector organizations. Students will learn the skills necessary to formulate policies, manage daily operations, analyze management structures, and plan for the use of materials and human resources.
- Marketing and Sales teaches how to collect information to determine potential sales of a product or service and/or create a marketing campaign to market or distribute goods and services. Students will learn the skills necessary to understand and apply data on customer demographics, preferences, needs, and buying habits.
- Early Learning focuses on early childhood education, which consists of instructing and supporting preschool and early elementary school students in activities that promote social, physical and intellectual growth as well as in basic elements of science, art, music, and literature. Introduces tasks necessary for planning, directing, and coordinating activities for young children.

- Teaching and Training prepares for careers related to teaching, instruction, and creation of instructional and enrichment materials. Introduces a wide variety of student groups and their corresponding needs. Familiarizes students with the processes for developing curriculum, coordinating educational content, and coaching groups and individuals.
- Healthcare Diagnostics introduces students to occupations and education opportunities related to performing complex medical laboratory tests for the diagnosis, treatment, and prevention of disease. Includes exploration into the opportunities associated with blood laboratories as well as radiologic technology and ultrasound technology.
- Healthcare Therapeutic introduces students to occupations and educational opportunities related to diagnosing, treating acute, episodic, or chronic illness independently or as part of a healthcare team. Reviews opportunities associated with providing treatment and counsel to patients; rehabilitative programs which help restore daily living skills to persons with disabilities or developmental delays.
- Medical Therapy is the study of biology and medicine in order to introduce students to the knowledge and skills necessary to be successful in the healthcare field in occupations such as, Respiratory, Occupational, Physical, or Speech Therapy.
- Nursing Science introduces students to the knowledge and skills related to patient care. Will about or practice caring for patients, routine procedures such as monitoring vital signs, development and implementation of care plans, maintenance of medical records, and disease or pain management.
- Culinary Arts introduces occupations and educational opportunities related to the planning, directing, or coordinating activities of a food and beverage organization or department. Details the directing and participating in the preparation and cooking of food.
- Cosmetology and Personal Care Services provides skills related to giving beauty and personal care services. Will learn the practice of managing personal care facilities and coordinating or supervising personal service workers.
- Family and Community Services introduces students to skills related to social services, including child and human development and consumer sciences. Will practice managing social and community services and teaching family and consumer sciences. Students may follow career paths in social work or therapy for children, families, or school communities.
- Health and Wellness introduces students to skills related to promoting physical, emotional, social, and mental health and wellness. Students will learn how to assist patients in planning for their health and wellness, respond to crises, and advise, provide education or counseling, or make referrals. Focus on addressing barriers to access health and wellness services.

- Information Technology Support and Services is administering, testing, and implementing computer databases and applying knowledge of database management systems. Includes analyzing user requirements and problems to automate or improve existing systems and review computer system capabilities. Exploration into the research, design, or testing of computer or computer-related equipment for commercial, industrial, military, or scientific use.
- Networking Systems is the designing and implementing computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. Exploration into analyzing science, engineering, and other data processing problems to implement and improve computer systems.
- Web Development is the designing, creating, and modifying websites. Integrates websites with other computer applications, and converting written, graphic, audio, and video components to compatible web formats by using software designed to facilitate the creation of web and multimedia content.
- Emergency Services focuses on training to respond to emergency situations, such as medical emergencies and fire-based emergencies. Students will learn how to prevent emergencies, respond appropriately and in accordance with rules and regulations during crises, and investigate and delineate the source of the emergency.
- Law Enforcement is the development of, adherence to, and protection of various branches of law. Teaches to appropriately and legally respond to breaches in the law according to statutory rules and regulations as well as investigate how and why the breaches occurred.
- Legal Studies introduces representing clients in criminal and civil litigation and other legal proceedings, as well as assisting lawyers and preparing legal documents. Explores possible specializations in a single area of law.
- Advanced Manufacturing and Machinery Mechanics focuses on the assembly, operation, maintenance, and repair of electromechanical equipment or devices. Will study in a variety of mechanical fields, gaining knowledge and experience in robotics, refinery and pipeline systems, deep ocean exploration, or hazardous waste removal.
- Welding focuses on the development and use of automatic and computer-controlled machines, tools, and robots to perform work on metal or plastic. Will learn how to modify parts to make or repair machine tools or maintain individual machines, and how to use hand-welding or flame-cutting equipment.
- Biomedical Science introduces skills necessary to be successful in the healthcare field, such as researching and diagnosing diseases, pre-existing conditions, or other determinants of health. Students may also practice patient care and communication.
- Cybersecurity is the planning, implementing, upgrading, or monitoring security measure for the protection of computer networks and information. Examines responding to computer security breaches and viruses and administering network security measures.

- Engineering is designing, development, and use of engines, machines, and structures. Will apply science, mathematical methods, and empirical evidence to the innovation, design, construction, operation, and maintenance of different manufacturing systems.
- Programming and Software Development is researching, designing, developing, and testing operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computer applications. Includes creating, modifying, and testing the codes, forms, and script that allow computer applications to run.
- Renewable Energy helps discover to assemble, inspect, maintain, and repair different equipment required for renewable energy. Introduces students to solar photovoltaic equipment and wind turbines, the systems and processes used to maintain and manage these types of equipment, and helps students develop the skills needed to do so.
- Automotive teaches how to repair and refinish automobiles and service various types of vehicles. Learn to collect payment for services or supplies and perform typical vehicle maintenance procedures such as lubrication, oil changes, installation of antifreeze, or replacement of accessories like wiper blades or tires.
- Drone-Unmanned Flight is the operating or designing an unmanned aircraft using a ground-based controller and the systems of communications between the controller and the aircraft.