

2016-2017 Pathway Descriptions by School

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ANTIOCH

Accounting

The Accounting program of study includes the study of how business financial services function in a company to make policy and strategy for (and the implementation of) capital structure, budgeting, acquisition and investment, financial modeling and planning, funding, dividends, and taxation. This pathway prepares students run a school based credit union housed in the school cafeteria. Possible careers include loan officer, financial services sales agent, budget analyst, and insurance underwriters.

Automotive Technology (Automotive Maintenance & Light Repair)

In this program of study, students study and service automotive HVAC systems, engine performance systems, automatic and manual transmission/transaxle systems, and practice workplace soft skills. Possible careers include small engine mechanic, shop supervisor, and auto repair shop owner.

Banking and Finance

In the Banking and Finance program of study, students gain an understanding of the banking and financial industries, beginning with basic economics as the underlying basis of the transfer and growth of money in the financial services system. The pathway prepares students run a school based credit union housed in the school cafeteria. Possible careers include tax preparer, bank teller, and accountant.

Culinary Arts

The Culinary Arts program of study covers the components of commercial kitchen safety and sanitation, proper tools and equipment, quality food production, and service operation. Possible careers include caterer, food/beverage manager, and executive chef.

Design Communications

The Design Communications program of study is designed to develop strong knowledge in communications technologies, animation and software applications, digital graphics, motion graphics, and more for a broad range of business and industry applications; especially in the automotive industry. Possible careers include multimedia artists, photographers, animators, and graphic designers.

Entrepreneurship

The Entrepreneurship program of study is for students who want to start, own, and operate their own businesses with broad coursework in organizational leadership, marketing and management, and advanced marketing strategies. Possible careers include small business owner, sales manager, advertising/promotions manager.

Hospitality and Tourism Management

In this program of study, students investigate the impact of the hospitality industry on the local and global economy, marketing foundations and functions, and human resource management. Hospitality and Tourism Management focuses on the skills and knowledge needed for careers within the hospitality industry, including hotel management, customer service, and travel advising.

JROTC- Army

JROTC stands for the Junior Reserve Officer's Training Corps and is a military regulated program whose purpose is to educate students in leadership roles while making them aware of the benefits of citizenship. Possible careers span a variety of industries such as engineering, communications, logistics, aviation, intelligence, finance, medical, legal, etc. in the armed forces.

Office Management

The Office Management program of study focuses on the knowledge and skills needed to be effective administrators in the area of word processing, spreadsheet, database, and presentation software; business writing, effective communications, and digital citizenship. Possible careers include data entry, legal assistant, and operations analyst.

Social Services (Social Health Services)

In this program of study, students investigate human needs and their impact on lifespan development, an overview of the human and social services fields, communication skills, and the historical and social changes of the modern family. Possible careers include social/human service assistant, social workers, family mediators, and school counselor.

STEM Technology

This program of study is uniquely structured to offer students an overview of STEM fields, occupations, and applications in the first year, followed by more specialized study of the scientific inquiry or engineering design process in subsequent years. Possible careers include lab technician, electrical engineering technician, and actuaries.

Teaching as a Profession (K-12)

In this program of study, students who are interested in becoming an educator will learn course content that covers the components of instruction, teaching strategies, types of assessments, student learning, special populations, educational technology, classroom management, lesson planning, professionalism, and more. Students in this pathway will work with their zoned elementary and middle schools as well as their Life Skills Classes to gain hands on experience in teaching. Possible careers include teacher assistant, childcare workers, and teacher.

CANE RIDGE

Broadcasting (Audio/ Visual Production)

The Broadcasting program of study is designed for students interested in a range of entertainment and news media fields including various broadcasting products, including commercials, music, news, and interactive programming. Possible careers include cameraman/photographer, broadcast technician, announcer, and broadcast/sound engineer.

Carpentry

Carpentry prepares students with the knowledge and skills related to residential and commercial carpentry, including wood, metal, and concrete building materials, fasteners, hand and power tools, fabrication based on construction plans, framing of platform and post-and-beam structures, stairs, installation and trim of windows and doors, installation and repair of gypsum wallboard, advanced site layout, exterior finish work, thermal and moisture protection, and introduction to welding. Possible careers include carpenters, electricians, construction supervisors, and architects.

Concrete Construction

Concrete Construction prepares students with the skills and knowledge related to reinforced concrete construction in residential and commercial structures, including safe practices, construction drawing interpretation and site layout, composition of concrete, principles of reinforcement, form construction, load analysis, placing, curing, and testing concrete, design of concrete mixes, and design of reinforced concrete members. Possible careers include cement masons/concrete finishers, construction managers, and civil engineers.

Emergency Services

Emergency Medicine is more than reacting to an emergency situation; it also involves preparation and prevention of emergency situations. This program of study prepares students to enter careers in emergency medical responder, emergency medical technician, and emergency room nurse.

Healthcare Business

The Healthcare Business program of study focuses on the knowledge and skills needed to be effective administrators in the area of healthcare business including healthcare informatics, management and support. Possible careers include medical transcriptionists, medical records, and health information analyst.

Law Enforcement Services

Law Enforcement Services course content emphasizes procedures and laws governing the application of justice in the United States, from constitutional rights to crisis scenario management to the elements of criminal investigations. Possible careers include police officer,

private detective/investigator, correctional officer, forensic science technician, and emergency management director.

Legal Services

In this program of study, students learn a wide range of knowledge and skills related to the criminal court system process, with particular emphasis on the elements and procedures of the justice system. Students in this pathway have the opportunity to participate in mock trial and youth court. Possible careers include court reporter, paralegal, legal assistant, and lawyer.

Production Design

The Production Design program of study, students learn progressively more advanced skills to produce two-dimensional and three-dimensional scale drawings and orthographic projections using computer-aided drafting (CAD) software. Possible careers include drafters, civil engineering technician, and architects.

Therapeutic Clinical Services

The Therapeutic Clinical Services program of study courses prepares students with a foundational knowledge and skills for careers in medicine, dentistry, physical therapy, pharmacology, nutrition, and many more established and emerging fields in the healthcare sector. Possible careers include dental hygienists, physical therapist assistant, chiropractor and speech pathologist.

Visual Arts

In the visual arts pathway, students explore various types of art mediums and produce visual pieces of artwork for real life projects, clients, and partners. Possible careers include set designers, museum curators, and graphic designers.

Web Design

The Web Design program of study covers key topics including pixelated and vector-based web design, web graphics, web animation, web hosting, and eCommerce. Possible careers include computer support specialist, web designer, web developer, and graphic designers.

GLENCLIFF

Animal & Plant Biotechnology/BioEngineering

Animal and Plant Biotechnology provides students with experiences in industry appropriate applications of biotechnology related to plant and animal agriculture; students will complete hands-on activities, projects, and problems designed to build to become proficient at biotechnological skills involving micropipetting, bacterial cultures and transformations, electrophoresis, and polymerase chain reaction. Possible careers include lab technicians, research analysts, or biomedical engineers.

Culinary Arts

The Culinary Arts program of study covers the components of commercial kitchen safety and sanitation, proper tools and equipment, quality food production, and service operation. Possible careers include caterer, food/beverage manager, and executive chef.

Diagnostic Services

The Diagnostic Services program of study provides students with skills and essential knowledge to investigate an individual's health status through various diagnostic procedures. Possible careers include lab assistant, radiologic technician, and registered nursing.

Engineering by Design

The Engineering by Design program of study provides students with the opportunity to develop critical thinking skills and understanding of engineering concepts, where they apply these skills with the engineering design process to solve real-world problems. Possible careers include surveying/mapping technician, engineer technician (mechanical, electrical, civil, etc.), and architect.

Entrepreneurship

The Entrepreneurship program of study is for students who want to start, own, and operate their own businesses with broad coursework in organizational leadership, marketing and management, and advanced marketing strategies. Students in the pathway have the chance to operate the school store. Possible careers include small business owner, sales manager, and advertising/promotions manager.

Innovative Arts and Design

Innovative Art and Design is a business and innovation pathway designed to teach students real world skills related drawing, painting, sculpture, and ceramics. Possible careers include set designers, museum curators, and graphic designers.

Medical Interpreting

The medical interpreting pathway recognizes a growing need for healthcare professionals who are culturally competent and able to deliver culturally and linguistically appropriate services. Possible careers include translators, medical assistants, or bilingual doctors.

Therapeutic Clinical Services

The Therapeutic Clinical Services program of study courses prepares students with a foundational knowledge and skills for careers in medicine, dentistry, physical therapy, pharmacology, nutrition, and many more established and emerging fields in the healthcare sector. Possible careers include dental hygienists, physical therapist assistant, chiropractor and speech pathologist.

Web Design

The Web Design program of study covers key topics including pixelated and vector-based web design, web graphics, web animation, web hosting, and eCommerce. Possible careers include computer support specialist, web designer, web developer, and graphic designers.

HILLSBORO

Broadcasting (Audio/ Visual Production)

The Broadcasting program of study is designed for students interested in a range of entertainment and news media fields including various broadcasting products, including commercials, music, news, and interactive programming. Possible careers include cameraman/photographer, broadcast technician, announcer, and broadcast/sound engineer.

Global Marketing and Logistics

This program of study is designed to provide students the opportunity to develop skills needed to live and work in a global marketplace as well as how distribution/logistics operations fit within the supply chain of a business--students will acquire the attitudes, knowledge and skills for entry-level international business and marketing occupations. Students in this pathway have the opportunity to operate the school store. Possible careers include shipping/receiving clerk, public relations, and operations analyst.

Interdisciplinary Science and Research

The Interdisciplinary Science and Research pathway enhances students' understanding of STEM concepts and research principles. All Interdisciplinary Science and Research courses are co-taught by a scientist-teacher team focused on individualized instruction. Possible careers include laboratory technicians, science and technical writers, or biologists.

International Baccalaureate Diploma Programme

The International Baccalaureate Diploma Programme is a program of education where students prepare for college by acquiring a global depth of knowledge and understanding through studying courses in six subject areas including two foreign languages. Possible careers include those with an international perspective such as mission and international service volunteers, consular officers, or foreign diplomats.

Therapeutic Clinical Services

The Therapeutic Clinical Services program of study courses prepares students with a foundational knowledge and skills for careers in medicine, dentistry, physical therapy, pharmacology, nutrition, and many more established and emerging fields in the healthcare sector. Possible careers include dental hygienists, physical therapist assistant, chiropractor and speech pathologist.

HILLWOOD

Broadcasting (Audio/ Visual Production)

The Broadcasting program of study is designed for students interested in a range of entertainment and news media fields including various broadcasting products, including commercials, music, news, and interactive programming. Possible careers include cameraman/photographer, broadcast technician, announcer, broadcast/sound engineer.

Business Leadership

Business Leadership prepares students for careers of today's business environments encompassing planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. Possible careers include business operation specialist, sales manager, compensation/benefits manager.

Culinary Arts

The Culinary Arts program of study covers the components of commercial kitchen safety and sanitation, proper tools and equipment, quality food production, and service operation. Possible careers include caterer, food/beverage manager, and executive chef.

Design Communications

The Design Communications program of study is designed to develop strong knowledge in communications technologies, animation and software applications, digital graphics, motion graphics, and more for a broad range of business and industry applications. Possible careers include multimedia artists, photographers, animators, and graphic designers.

Diagnostic Services

The Diagnostic Services program of study provides students with skills and essential knowledge to investigate an individual's health status through various diagnostic procedures. Students in this pathway have the opportunity to train in a real-world medical lab on the school campus. Possible careers include lab assistant, radiologic technician, and registered nursing.

Emergency Services

Emergency Medicine is more than reacting to an emergency situation; it also involves preparation and prevention of emergency situations. Students in this pathway have the opportunity to train in a real-world medical lab on the school campus. Students in this pathway have the opportunity to train in a real-world medical lab on the school campus. This program of study provides students emergency medical responder, emergency medical technician, and emergency room nurse.

Music Arts

In the music arts pathway, students learn professional composition and performance opportunities in instrumental and vocal music as well as educational outreach. Possible careers include singers, music teachers, and composers.

Therapeutic Nursing Services

The Therapeutic Nursing Service program of study prepares students to pursue careers or further education and training in nursing directly out of high school. This program of study is designed to equip students with knowledge and skills for a range of nursing careers, and students will be given the opportunity to practice their skills on clients/residents/patients in a healthcare setting. Students in this pathway have the opportunity to train in a real-world medical lab on the school campus. Possible careers include home health aide, medical assistant, registered nurse and physician's assistant.

Visual Arts

In the visual arts pathway, students explore various types of art mediums and produce visual pieces of artwork for real life projects, clients, and partners. Possible careers include set designers, museum curators, and graphic designers.

HUNTERS LANE

Business Management

Business Management prepares students for the dynamic careers of today's business environments encompassing planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. Possible careers include administrative assistant, accounting clerk, and sales manager.

Culinary Arts

The Culinary Arts program of study covers the components of commercial kitchen safety and sanitation, proper tools and equipment, quality food production, and service operation. Possible careers include caterer, food/beverage manager, and executive chef.

Design Communications

The Design Communications program of study is designed to develop strong knowledge in communications technologies, animation and software applications, digital graphics, motion graphics, and more for a broad range of business and industry applications. Possible careers include multimedia artists, photographers, animators, and graphic designers.

Emergency Services

Emergency Medicine is more than reacting to an emergency situation; it also involves preparation and prevention of emergency situations. This program of study prepares students to enter careers in emergency medical responder, emergency medical technician, and emergency room nurse.

Entrepreneurship

The Entrepreneurship program of study is for students who want to start, own, and operate their own businesses with broad coursework in organizational leadership, marketing and management, and advanced marketing strategies. Possible careers include small business owner, sales manager, advertising/promotions manager.

Hospitality and Tourism Management

In this program of study, students investigate the impact of the hospitality industry on the local and global economy, marketing foundations and functions, and human resource management. Hospitality and Tourism Management focuses on the skills and knowledge needed for careers within the hospitality industry, including hotel management, customer service, and travel advising.

International Baccalaureate Diploma Programme

The International Baccalaureate Diploma Programme is a program of education where students prepare for college by acquiring a global depth of knowledge and understanding through studying courses in six subject areas including two foreign languages. Possible careers include those with an international perspective such as mission and international service volunteers, consular officers, or foreign diplomats.

International Baccalaureate Middle Years Programme

The International Baccalaureate Middle Years Programme is a program of education where students prepare for college by acquiring a global depth of knowledge and understanding through studying courses in six subject areas including two foreign languages. Possible careers include those with an international perspective such as mission and international service volunteers, consular officers, or foreign diplomats.

JROTC- Army

JROTC stands for the Junior Reserve Officer's Training Corps and is a military regulated program whose purpose is to educate students in leadership roles while making them aware of the benefits of citizenship. Possible careers span a variety of industries such as engineering, communications, logistics, aviation, intelligence, finance, medical, legal, etc. in the armed forces.

Marketing Communication

The Marketing Communication program of study covers interpersonal and communication skills in business settings, marketing and management, organizational leadership, advanced strategies for promoting products and services, and key concepts such as segmentation and target marketing, social media and digital marketing, market research and data management, and public relations. Possible careers include telemarketers, real estate agent, graphic design, and marketing managers.

Programming & Software Development

Programming & Software Development course content introduces students to fundamental information technology concepts, then progresses to topics such as object-oriented programming, software development life-cycle, software testing, quality assurance, ethics, and project management. Students in this pathway have the opportunity to develop software for both the PC and iOS operating systems. Possible careers include desktop support, junior programmers, software developer, and computer analysts.

Social Services (Social Health Services)

In this program of study, students investigate human needs and their impact on lifespan development, an overview of the human and social services fields, communication skills, and the historical and social changes of the modern family. Possible careers include social/human service assistant, social workers, family mediators, and school counselor.

Therapeutic Clinical Services

The Therapeutic Clinical Services program of study courses prepares students with a foundational knowledge and skills for careers in medicine, dentistry, physical therapy, pharmacology, nutrition, and many more established and emerging fields in the healthcare sector. Possible careers include dental hygienists, physical therapist assistant, chiropractor and speech pathologist.

MAPLEWOOD

Automotive Technology (Automotive Maintenance & Light Repair)

In this program of study, students study and service automotive HVAC systems, engine performance systems, automatic and manual transmission/transaxle systems, and practice workplace soft skills. Possible careers include small engine mechanic, shop supervisor, and auto repair shop owner.

Diagnostic Services

The Diagnostic Services program of study provides students with skills and essential knowledge to investigate an individual's health status through various diagnostic procedures. Possible careers include lab assistant, radiologic technician, and registered nursing.

Energy/Power Distribution

The Energy/Power Distribution program of study is designed to develop competencies in electric power transmission and distribution systems; electrical grounding practices; installation of fuses and circuit breakers; analyzing risks when working with electrical systems; and demonstrating teamwork, employability, entrepreneurship, leadership, and citizenship skills. Possible careers include utility lineman, electrician, industrial engineering technician, mechanical engineer.

Entrepreneurship

The Entrepreneurship program of study is for students who want to start, own, and operate their own businesses with broad coursework in organizational leadership, marketing and management, and advanced marketing strategies. Possible careers include small business owner, sales manager, advertising/promotions manager.

Personal Care Services (Cosmetology)

The Cosmetology program of study cover the safety procedures in salon environments, principles of hair design, nail structures, and chemistry of color application. Possible careers include nail technician, barber, cosmetologist, skin care specialist, and personal care consultant.

STEM Technology

This program of study is uniquely structured to offer students an overview of STEM fields, occupations, and applications in the first year, followed by more specialized study of the scientific inquiry or engineering design process in subsequent years. Possible careers include lab technician, electrical engineering technician, and actuaries.

Therapeutic Clinical Services

The Therapeutic Clinical Services program of study courses prepares students with a foundational knowledge and skills for careers in medicine, dentistry, physical therapy, pharmacology, nutrition, and many more established and emerging fields in the healthcare

sector. Possible careers include dental hygienists, physical therapist assistant, chiropractor and speech pathologist.

McGAVOCK

Audio Production

In this program of study, students develop skills to conduct complete recording sessions and perform mix-down, mastering, and other post-production techniques. Possible careers include computer support specialist, sound technicians, audio engineering.

Automotive Collision Repair

Automotive Collision Repair emphasizes customer service skills, proper use of tools and equipment, safety, shop operations, engine fundamentals, damage analysis, cost estimation, painting and refinishing, and structural and non-structural repair in a hands-on environment. Possible careers include automotive body repair, damage estimator, and sales manager.

Aviation Flight

The Aviation Flight program of study covers the knowledge and skills of all aspects of flight needed to pass the Federal Aviation Administration (FAA) Private Pilot written exam, including aircraft structures, flight environment, procedures and regulations, aerodynamics of flight, judgment training, navigation, communications, and more. Students in this program are able to earn flight hours through the flight simulation laboratory. Possible careers include air traffic control specialists, pilots, and aircraft engineers.

Aviation Maintenance

In this program of study, students learn to build, repair, and maintain aircraft structures and parts for the safe and efficient operation of commercial/private flight services. Students in this pathway have the opportunity to work on a real Cessna Airplane, helicopter, hovercraft, etc. Possible careers include aviation mechanic, aerospace technician, and aviation sales.

Banking and Finance

In the Banking and Finance program of study, students gain an understanding of the banking and financial industries, beginning with basic economics as the underlying basis of the transfer and growth of money in the financial services system. The pathway prepares students run a school based credit union housed in the school. Possible careers include tax preparer, bank teller, and accountant.

Broadcasting (Audio/ Visual Production)

The Broadcasting program of study is designed for students interested in a range of entertainment and news media fields including various broadcasting products, including commercials, music, news, and interactive programming. Possible careers include cameraman/photographer, broadcast technician, announcer, and broadcast/sound engineer.

Culinary Arts

The Culinary Arts program of study covers the components of commercial kitchen safety and sanitation, proper tools and equipment, quality food production, and service operation. Possible careers include caterer, food/beverage manager, and executive chef.

Design Communications

The Design Communications program of study is designed to develop strong knowledge in communications technologies, animation and software applications, digital graphics, motion graphics, and more for a broad range of business and industry applications. Possible careers include multimedia artists, photographers, animators, and graphic designers.

Diesel Technology

The Diesel Technology program of study prepares students in the field of transportation, diesel preventative maintenance, electronics, and engine work. Potential careers in this field include retail service technicians, engine builders, and aftermarket parts research and development specialists.

Diagnostic Services

The Diagnostic Services program of study provides students with skills and essential knowledge to investigate an individual's health status through various diagnostic procedures. Possible careers include lab assistant, radiologic technician, and registered nursing.

Engineering by Design

The Engineering by Design program of study provides students with the opportunity to develop critical thinking skills and understanding of engineering concepts, where they apply these skills with the engineering design process to solve real-world problems. Students in the program of study have the opportunity to work with NASA on the Hunch Program. Possible careers include surveying/mapping technician, engineer technician (mechanical, electrical, civil, etc.), and architect.

Entrepreneurship

The Entrepreneurship program of study is for students who want to start, own, and operate their own businesses with broad coursework in organizational leadership, marketing and management, and advanced marketing strategies. The pathway prepares students run a school based credit union housed in the school. Possible careers include small business owner, sales manager, advertising/promotions manager.

Hospitality and Tourism Management

In this program of study, students investigate the impact of the hospitality industry on the local and global economy, marketing foundations and functions, and human resource management. Hospitality and Tourism Management focuses on the skills and knowledge needed for careers within the hospitality industry, including hotel management, customer service, and travel advising.

Law Enforcement Services

Law Enforcement Services course content emphasizes procedures and laws governing the application of justice in the United States, from constitutional rights to crisis scenario management to the elements of criminal investigations. Possible careers include police officer, private detective/investigator, correctional officer, forensic science technician, and emergency management director.

Therapeutic Clinical Services

The Therapeutic Clinical Services program of study courses prepares students with a foundational knowledge and skills for careers in medicine, dentistry, physical therapy, pharmacology, nutrition, and many more established and emerging fields in the healthcare sector. Possible careers include dental hygienists, physical therapist assistant, chiropractor and speech pathologist.

Veterinary Science (Veterinary and Animal Science)

Veterinary Science includes course content that covers such topics and skills as principles of health and disease, basic animal care and nursing, clinical and laboratory procedures, and the anatomical/physiological systems of a range of small and large animals. Students in the pathway have the chance to work with real small and large animals in the school's menagerie. Possible careers include animal trainers, veterinary technicians, or veterinarians.

OVERTON

Diagnostic Services

The Diagnostic Services program of study provides students with skills and essential knowledge to investigate an individual's health status through various diagnostic procedures. Possible careers include lab assistant, radiologic technician, and registered nursing.

Engineering by Design

The Engineering by Design program of study provides students with the opportunity to develop critical thinking skills and understanding of engineering concepts, where they apply these skills with the engineering design process to solve real-world problems. Possible careers include surveying/mapping technician, engineer technician (mechanical, electrical, civil, etc.), and architect.

Event Marketing

The Event Marketing program of study guides students through gaining knowledge and skills in facility design, merchandising and advertising, public relations/publicity, and event marketing. Possible careers include travel agents, promotions specialist, and event planner.

Instrumental Arts

In the instrumental arts pathway, students learn professional composition and performance opportunities in instrumental music as well as educational outreach. Possible careers include performers, music teachers, and composers.

Mechanical, Electrical, and Plumbing Systems

The Mechanical, Electrical, and Plumbing Systems program of study prepares students to understand the basic functions and skills needed in residential and commercial heating, ventilating, air conditioning and refrigeration. Possible careers include HVAC technicians, energy auditors, and equipment performance-testing specialists.

Medical Interpreting

The medical interpreting pathway recognizes a growing need for healthcare professionals who are culturally competent and able to deliver culturally and linguistically appropriate services. Possible careers include translators, medical assistants, or bilingual doctors

Networking Systems

Networking Systems course content is competency-based, introducing students to fundamental information technology concepts, then progressing to cover key topics such as industry standards and specifications; troubleshooting, replacing and upgrading computers; designing, managing, and diagnosing network hardware and software; cabling system design; and cabling

installations. Possible careers include PC support, network technician, network administrator, and computer systems analyst.

Programming & Software Development

Programming & Software Development course content introduces students to fundamental information technology concepts, then progresses to topics such as object-oriented programming, software development life-cycle, software testing, quality assurance, ethics, and project management. Possible careers include desktop support, junior programmers, software developer, and computer analysts.

Therapeutic Clinical Services

The Therapeutic Clinical Services program of study courses prepares students with a foundational knowledge and skills for careers in medicine, dentistry, physical therapy, pharmacology, nutrition, and many more established and emerging fields in the healthcare sector. Possible careers include dental hygienists, physical therapist assistant, chiropractor and speech pathologist.

Urban Agriculture (Horticulture Science)

Urban Agriculture includes principles of plant health, growth, reproduction, and biotechnology, principles of hydroponics and aquaponics, greenhouse structures, growing media, site analysis and planning, principles of design, and plant selection and care techniques. Urban Agriculture prepares students for future careers in the management of greenhouse operations, horticulture production, landscape design and maintenance, and turf management.

Vocal Arts

In the vocal arts pathway, students learn professional composition and performance opportunities in vocal music as well as educational outreach. Possible careers include singers, music teachers, and composers.

Web Design

The Web Design program of study covers key topics including pixelated and vector-based web design, web graphics, web animation, web hosting, and eCommerce. Possible careers include computer support specialist, web designer, web developer, graphic designers.

PEARL-COHN

Audio Production

In this program of study, students develop skills to conduct complete recording sessions and perform mix-down, mastering, and other post-production techniques. Possible careers include computer support specialist, sound technicians, audio engineering.

Broadcasting (Audio/ Visual Production)

The Broadcasting program of study is designed for students interested in a range of entertainment and news media fields including various broadcasting products, including commercials, music, news, and interactive programming. Possible careers include camera operator/photographer, broadcast technician, announcer, broadcast/sound engineer.

Fashion Design

In the Fashion Design pathway students learn the skills and knowledge related to the elements and principles of design, apparel manufacturing and merchandising, basic marketing and product promotion, trend forecasting, and presentation. Possible careers include fashion design, fashion merchandising, and collection management.

Media Publishing

The Media Publishing program of study helps students improve oral and written communication skills to be used in a Media Publishing environment--students study how all aspects of the entertainment industry integrate in order to deliver new products to the public and how creative efforts and works are produced, funded, marketed, and distributed for financial profit. Possible careers include print technicians, desktop publishers, writer/author and editors.

Personal Care Services (Cosmetology)

The Cosmetology program of study covers the safety procedures in salon environments, principles of hair design, nail structures, and chemistry of color application. Possible careers include nail technician, barber, cosmetologist, skin care specialist, and personal care consultant.

Recording Industry

The Recording Industry program of study takes the technical skills, vocabulary, and practices of the recording industry, including the legal and commercial structure of the entertainment business and puts them into practice in a real-world environment in order to deliver new creative products to the public and are integral in the production, funding, marketing and distribution of creative works. Possible careers include musicians/performers, studio technicians, and producers/directors.

Sports and Entertainment Management

The Sports and Entertainment Management program of study guides students through gaining knowledge and skills in facility design, merchandising and advertising, public relations/publicity,

and event marketing. Possible careers include travel agents, promotions specialist, and event planner.

STRATFORD

Biotechnology

Biotechnology is designed to give students a comprehensive introduction to the scientific thinking, concepts and laboratory research techniques currently used in the field of biotechnology. Possible careers include lab assistant, chemical technicians, and microbiologist.

Engineering by Design

The Engineering by Design program of study provides students with the opportunity to develop critical thinking skills and understanding of engineering concepts, where they apply these skills with the engineering design process to solve real-world problems. Possible careers include surveying/mapping technician, engineer technician (mechanical, electrical, civil, etc.), and architect.

Interdisciplinary Science and Research

The Interdisciplinary Science and Research pathway enhances students' understanding of STEM concepts and research principles. All Interdisciplinary Science and Research courses are co-taught by a scientist-teacher team focused on individualized instruction. Possible careers include laboratory technicians, science and technical writers, or biologists.

Law Enforcement Services

Law Enforcement Services course content emphasizes procedures and laws governing the application of justice in the United States, from constitutional rights to crisis scenario management to the elements of criminal investigations. Possible careers include police officer, private detective/investigator, correctional officer, forensic science technician, and emergency management director.

Programming & Software Development

Programming & Software Development course content introduces students to fundamental information technology concepts, then progresses to topics such as object-oriented programming, software development life-cycle, software testing, quality assurance, ethics, and project management. Possible careers include desktop support, junior programmers, software developer, and computer analysts.

MNPS VIRTUAL SCHOOL

Business Management

Business Management prepares students for the dynamic careers of today's business environments encompassing planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. Possible careers include administrative assistant, accounting clerk, and sales manager.

Marketing Communication

The Marketing Communication program of study covers interpersonal and communication skills in business settings, marketing and management, organizational leadership, advanced strategies for promoting products and services, and key concepts such as segmentation and target marketing, social media and digital marketing, market research and data management, and public relations. Possible careers include telemarketers, real estate agent, graphic design, and marketing managers.

WHITES CREEK

Alternative Energy

Alternative Energy is designed to introduce students to the world of alternative energy including wind, solar, and water, among others. Students will be able to actually produce biofuels and other forms of alternative fuels. Possible careers include alternative energy field representative, chemical technicians, and environmental engineers.

Automotive Technology (Automotive Maintenance & Light Repair)

In this program of study, students study and service automotive HVAC systems, engine performance systems, automatic and manual transmission/transaxle systems, and practice workplace soft skills. Possible careers include small engine mechanic, shop supervisor, and auto repair shop owner.

Entrepreneurship

The Entrepreneurship program of study is for students who want to start, own, and operate their own businesses with broad coursework in organizational leadership, marketing and management, and advanced marketing strategies. Possible careers include small business owner, sales manager, advertising/promotions manager.

Fire Science

The Fire Science program of students introduces students to the principles of fire and emergency services, emergency preparedness, and fire science. Possible careers include firefighters, emergency medical responders, and fire management professionals.

JROTC-Air Force

JROTC stands for the Junior Reserve Officer's Training Corps and is a military regulated program whose purpose is to educate students in leadership roles while making them aware of the benefits of citizenship. Possible careers span a variety of industries such as engineering, communications, logistics, aviation, intelligence, finance, medical, legal, etc. in the armed forces.

Law Enforcement Services

Law Enforcement Services course content emphasizes procedures and laws governing the application of justice in the United States, from constitutional rights to crisis scenario management to the elements of criminal investigations. Possible careers include police officer, private detective/investigator, correctional officer, forensic science technician, and emergency management director.

Legal Services

In this program of study, students learn a wide range of knowledge and skills related to the criminal court system process, with particular emphasis on the elements and procedures of the justice system. Possible careers include court reporter, paralegal, legal assistant, and lawyer.

Public Health

Students in the Public Health program of study examine why and how the increase in chronic conditions affects not only individuals, but the health of their communities and the general public. Possible careers include lab assistant, public health nurse, and public health educator.

Teaching as a Profession (K-12)

In this program of study, students who are interested in becoming an educator will learn course content that covers the components of instruction, teaching strategies, types of assessments, student learning, special populations, educational technology, classroom management, lesson planning, professionalism, and more. Possible careers include teacher assistant, childcare workers, and teacher.

Therapeutic Clinical Services

The Therapeutic Clinical Services program of study courses prepares students with a foundational knowledge and skills for careers in medicine, dentistry, physical therapy, pharmacology, nutrition, and many more established and emerging fields in the healthcare sector. Possible careers include dental hygienists, physical therapist assistant, chiropractor and speech pathologist.

