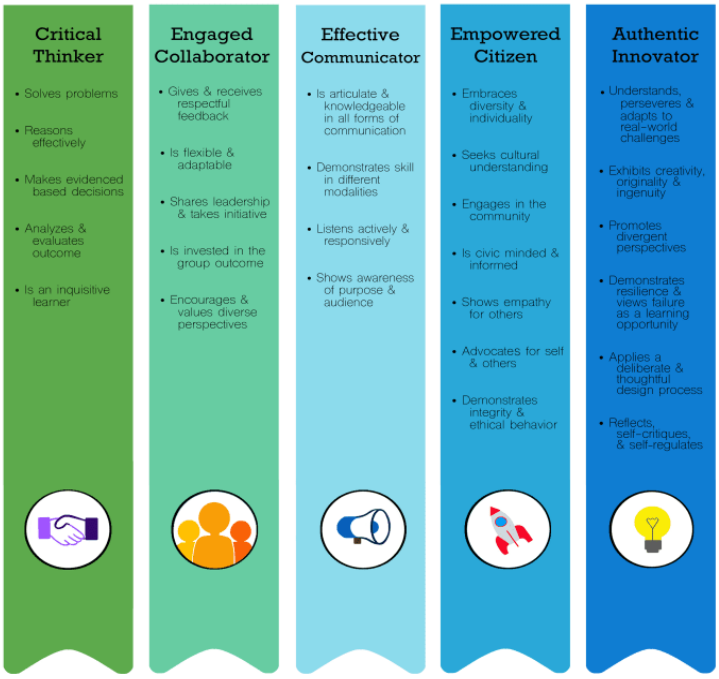
Coventry High School
Career Pathways



Coventry Public Schools

Portrait of the Graduate Competencies





Learn · Grow · Succeed

Coventry High School's Career Pathway Program provides a framework for all students to obtain skills needed to meet the district's Portrait of the Graduate competencies. Each of our pathways consists of a set of academic courses and specialized electives which are aligned with each career theme. Coventry High School's career pathways are designed to support the development of our students' success for life after high school by focusing on competencies that are outlined in the Portrait of the Graduate.

Career Cluster	Environment/Skills/Ability	Examples of Occupations
Agriculture, Food and Natural Resources	Enjoy being outdoors and working with your hands	Biological Technicians, Environmental Engineers, Soil and Plant Scientists
Architecture and Construction	Involved in the building, maintenance, and operation of building and properties	Architects, Civil Engineers, Electricians, Carpenters, Plumbers, Pipefitters, and Steamfitters
Arts, A/V Technology, and Communications	Be creative and love using your talents to entertain and inform others	Art Directors, Audio and Video Equipment Technicians, Graphic Designers, Musicians and Singers, Producers and Directors, Writers and Authors
Business, Management, and Administration	Entrepreneurial people who are highly organized and enjoy working with others	Chief Executives, Human Resources Specialists, Management Analysts, Meeting and Event Planners, Operations Research Analysts, Purchasing Managers
Education and Training	Have patience and enjoy helping others	Teachers, Administrators, Counselors, Library Technicians, Interpreters and Translators, Teaching Assistants
Finance	Requires strong mathematical ability and a solid attention to detail	Accountants, Actuaries, Budget Analysts, Financial Managers, Credit Analysts, Loan Officers, Tax Preparers, Insurance Sales Agents, Insurance Underwriters, Personal Financial Advisors
Government and Public Administration	Values making a contribution to the community	Compliance Officers, Financial Examiners, Occupational Health and Safety Specialists, Statistical Assistants, Tax Examiners and Collectors, Transportation Inspectors, Post Service Clerks
Health Science	Be caring and compassionate	Acupuncturists, Athletic Trainers, Chiropractors, Dental Hygienists, Dietitians and Nutritionists, Occupational Therapists, Optometrists, Pharmacists, Physical Therapists, Nurses, Surgeons, Veterinarians
Hospitality and Tourism	Enjoy meeting new people, good interpersonal skills	Animal Trainers, Bakers, Bartenders, Cookes, Food Service Managers, Gaming Dealers, Lodging Managers, Waiters
Human Services	Helping families meet basic human needs	Barbers, Funeral Home Managers, Health Educators, Social Workers, Psychologists, Counselors, Therapists, Childcare Workers, Loan Officers
Information Technology	Work with computer hardware, software, and systems integration services	Computer and Information Systems Managers, Software Developers, Computer Programmers, Database Administrators, Web Developers, Computer Use Support Specialists, Network and Computer Systems Administrators
Law, Public Safety, Corrections, and Security	Protecting the well-being of the public	Lawyers, Firefighters, Police Officers, Correctional Officers, Private Detectives, Paralegals, Emergency Medical Technicians and Paramedics, Animal Control Workers
Manufacturing	Use mechanical abilities to create many different kinds of products	Aerospace Engineering and Operations Technicians, Chemical Technicians, Dental Laboratory Technicians, Electrical and Electronics Drafters, Tool and Die Makers, Machinists, CNC Programmers and Operators, Jewelers, Cabinetmakers and Bench Carpenters, Power Plant Operators
Marketing	Planning, managing, providing research and development services	Advertising Sale Agents, First-Line Supervisors of Sales Workers, Market Research Analysts, Sales Managers, Technical Sales Representatives, Public Relations Specialists, Retail Salespersons, Real Estate Sales Agents, Sales Engineers
Science, Technology, Engineering, and Mathematics	Cutting edge research into new technological developments	Aerospace Engineers, Biochemists and Biophysicists, Biomedical Engineers, Chemists, Economists, Mechanical Engineers, Industrial Engineers, Physicists, Statisticians, Urban and Regional Planners
Transportation, Distribution, and Logistics	Moving people, materials and products by road, air, rail, and water	Air Traffic Controllers, Automotive Service Technicians and Mechanics, Bus Drivers, Commercial Pilots, Flight Attendants, Logisticians, Motorcycle Mechanics, Truck Drivers

Traditional Four Year Plan of Study

The following is a suggested sequence of courses to take to meet CHS graduation requirements. Students should refer to this as the foundational sequence of any career pathway they choose to pursue.

STEP ONE: SELECT COURSES TO MEET GRADUATION REQUIREMENTS						
Subject		**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**	**Minimum Required Credits**
Humanities	**English**	Pre-AP/English 9- *1.0 credit*	Pre-AP/English 10 or AP Seminar- *1.0 credit*	AP English 11 or American Literature- *1.0 credit*	AP/ECE/English 12- *1.0 credit*	4
	Social Studies		AP/World Understanding- *1.0 credit*	AP/ECE/US History- *1.0 credit*	AP European History/Contemporary Issues- *1.0 credit*	3
	Humanities Electives	Art, Music, English, Social Studies, or additional World Language Electives- *2.0 credits*				2
STEM	**Math**	Algebra 1/Honors or Geometry/Honors - *1.0 credit*	Geometry/Honors or Algebra 2/Honors - *1.0 credit*	Algebra 2/Honors or Pre-Calculus/ Honors - *1.0 credit*	Pre-Calculus/Honors or AP/ECE Calculus or AP/ECE Statistics or Probability and Statistics- *1.0 credit*	4
	Science	Science 9/Honors- *1.0 credit*	Biology/Honors- *1.25 credit*	Chemistry- *1.25 credit*	Science Elective	3
	Computer Science	Computer Science – *.5 credits*				.5
	STEM Electives	Business, Technology, Math, or Science Electives- *1.5 credits*				1.5
World Language		World Language- *1.0*	World Language*			1
Health		Freshmen Health- *.5 credit*	Teen Health- *.5 credit*			1
Physical Education		PE- *.5 credit*	PE- *.5 credit*			1
Junior Seminar				Junior Seminar		
Senior Portfolio					Senior Portfolio- *1.0 credit*	1
Electives		3 Elective Credits in any Subject				3
					Total Credits Needed for Graduation	25

**Many colleges and universities require at least two years of the same World Language to be completed at the high school level as a requirement for admission*.

Architecture and Construction & Information Technology





Architecture and Construction Pathway summary: careers in computer aided drafting and design, planning, managing, building and maintaining the physical infrastructure environment, e.g. buildings, homes, parks, bridges, roads and highways etc.
Information Technology Pathway summary: entry level, technical, and professional careers related to the design, development, support and management of hardware, software, multimedia, and systems integration services.
AP and Dual Enrollments Credit Opportunities: ECE Introduction to Computing for Engineers

STEP TWO: CHOOSE A PATHWAY THAT INTERESTS YOU AND SELECT PATHWAY COURSES Students entering the pathway for the first time begin in the introductory course.	
Introductory Courses	**Advanced Courses in Sequence**
Art Fundamentals	Computer Aided Design II
Architecture	Computer Aided Design III
Computer Aided Design I	ECE Intro to Computing for Engineers
Computer Science Principles	Wood Technology II
Construction	Wood Technology III
Introduction to Photography	
Video Production I	
Wood Technology I	

POST-SECONDARY CAREER PATHS & FUTURE CAREERS	
Jobs after High School	**Careers after Continued Education**
Boilermakers	Architects
Brickmasons and Block Masons	Architectural & Civil Drafters
Carpenters/Carpenters Helpers	Civil Engineering Technicians
Construction Laborers	Civil Engineers
Construction & Maintenance Painters	Computer Users/Network Support Specialists
Drywall & Ceiling Tile Installers	Computer & Information Systems Managers
Electricians/ Electricians Helpers	Computer Network Architect
Electrical Power-Line Installers & Repairers	Computer Programmers
First-Line Supervisors of Construction Trades & Extraction	Computer System Analysts
Glaziers	Constructions Managers
Mechanical Door Repairers	Cost Estimators
Mechanical Insultation Workers	Database Administrators & Architects
Paving, Surfacing, & Tamping Equipment Operators	Information Security Analysts
Pipelayers, Plumbers, Pipefitters, & Steamfitters/ Helpers	Interior Designers
Riggers	Landscape Architects
Structural Iron & Steel Workers	Network & Computer Systems Administrators
Tapers	Software Developers & Analysts
Workers	Surveyors
	Web Developers & Digital Interface Designers

Arts, Audio/Visual Technology and Communications



Art, Audio/Visual Technology & Communications summary: Careers in designing, producing exhibiting, performing, writing, publishing, multimedia content, e.g. visual and performing arts and design, journalism etc.
AP and Dual Enrollments Credit Opportunities: AP Art History, ECE Drawing
Recommended Clubs & Organizations: Yearbook, Band, Choir, Drama

STEP TWO: CHOOSE A PATHWAY THAT INTERESTS YOU AND SELECT PATHWAY COURSES Students entering the pathway for the first time begin in the introductory course.	
Introductory Courses	**Advanced Courses in Sequence**
Acting I	Advanced Art I
Art Fundamentals	Advanced Art II
Broadcast Journalism	Advanced Photography
Ceramics	AP Art History
Creative Writing	AP Music Theory
Intro to Photo	Chamber Choir
Music Theory	ECE Drawing
Patriot Choir	Jazz Ensemble
Percussion	Visual Photo Story
Studio Arts Workshop	Video Production II
Symphonic Band	Wind Ensemble
Technology in Music	
Treble Choir	
Video Production I	

POST-SECONDARY CAREER PATHS & FUTURE CAREERS	
Jobs after High School	**Careers after Continued Education**
Floral Designer Musicians & Singers	Agents & Business Managers of Artists, Performers, & Athletes Art Directors Audio & Visual Equipment Technicians Broadcast Technicians Commercial & Industrial Designers Editors Film & Video Editors Graphic Designers Installers & Repairers Multimedia Artists & Animators Producers & Directors Set & Exhibit Designers Sound Engineering Technicians Technical Writers Telecommunications Equipment Writers & Authors

Business, Management and Administration & Marketing & Finance



Business Pathway summary: careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.
Marketing Pathway Summary: careers in planning, managing, and performing marketing activities to reach organizational objectives.
AP and Dual Enrollments Credit Opportunities: AP/ECE Statistics, AP/ECE Calculus, AP Psychology, Accounting I, Personal Finance
Recommended Clubs & Organizations: Future Business Leaders of America (FBLA)

STEP TWO: CHOOSE A PATHWAY THAT INTERESTS YOU AND SELECT PATHWAY COURSES Students entering the pathway for the first time begin in the introductory course.	
Introductory Course	**Advanced Courses in Sequence**
Business & Personal Law	AP Calculus
Introduction to Business	AP Probability and Statistics
Probability and Statistics	AP Psychology
	Accounting I
	Business Management
	Entrepreneurship
	Personal Finance

POST-SECONDARY CAREER PATHS & FUTURE CAREERS	
Jobs after High School	**Careers after Continued Education**
Advertising Sales Agents	Administrative Services and Facilities Managers
Bookkeeping, Accounting & Auditing Clerks	Advertising and Promotions Managers
Customer Service Representatives	Chief Executives
Data Entry Keyers	Compensations and Benefits Managers
Executive Administrative Assistants	General and Operations Managers
First-Line Supervisors of Non-Retail/Retail Sales Workers	Human Resource Assistants
Managers	Human Resource Managers
Payroll and Timekeeping Clerks	Human Resource Specialists
Procurement Clerks	Industrial Production Managers
Property, Real Estate, & Community Association	Labor Relations Specialists
Real Estate Brokers	Management Analysts
Real Estate Sales Agents	Market Research Analysts & Specialists
Retail Salespersons	Marketing Managers
Sales Representatives, Wholesale and Manufacturing	Meeting, Convention, and Event Planners
	Operations Research Analysts
	Public Relations & Fundraising Managers
	Public Relations Specialists
	Purchasing Managers
	Sales Engineers
	Sales Managers
	Sales Representatives
	Training & Development Managers & Specialists

Education and Training & Human Services



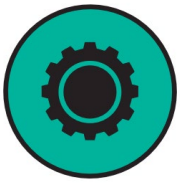
Education & Training Pathway summary: Career in planning, managing, and providing education and training services, and related learning support services.
Human Services Pathway summary: Careers that prepare individuals for employment that relates to families and human needs.
AP and Dual Enrollments Credit Opportunities: AP Psychology, AP Seminar, AP English 11, AP/ECE English 12
Recommended Clubs & Organizations: Best Buddies



STEP TWO: CHOOSE A PATHWAY THAT INTERESTS YOU AND SELECT PATHWAY COURSES Students entering the pathway for the first time begin in the introductory course.	
Introductory Courses	**Advanced Courses in Sequence**
Freshman Health	AP/ECE English 12
Intro to Yoga and Aerobics	AP English 11
Physical Education	AP Psychology
Psychology	AP Seminar
Sociology	Teen Health
Weight Training	

POST-SECONDARY CAREER PATHS & FUTURE CAREERS	
Jobs after High School	**Careers after Continued Education**
Barbers Childcare Workers Community Health Workers Fitness Trainers and Aerobics Instructors Funeral Attendants Hairdressers, Hairstylists and Cosmetologists Manicurists and Pedicurists Massage Therapists Residential Advisors Social and Human Services Assistants Teaching Assistant Tailors, Dressmakers, and Custom Sewers	Adult Education Teachers Career/Technical Education Teachers, Secondary School Child, Family and School Social Workers Clinical, Counseling, and School Psychologists Counselors Elementary School Teachers Education Administrators, Elementary/Secondary School Educational Guidance, School, and Vocational Counselors Funeral Home Manager Health Educators Healthcare Social Workers Interpreters and Translators Kindergarten Teachers Koan Officers Library Technician Marriage and Family Therapists Mental Health and Substance Abuse Social Workers Middle School Teachers Morticians, Undertakers, and Funeral Directors Preschool Teachers Rehabilitation Counselors Secondary School Teachers Social and Community Service Managers Substance Abuse, Behavioral Disorder, and Mental Health Special Education Teachers, Kindergarten and Elementary Special Education Teachers, Middle School Vocational Education Teachers, Postsecondary

Science, Technology, Engineering and Manufacturing (STEM) & Health Science





Science, Technology, Engineering and Manufacturing pathway summary: careers in planning, managing, and providing scientific research and professional/technical services, including research and development services.

Health Sciences pathway summary: Careers that prepare individuals for employment that relates to families and human needs.

AP and Dual Enrollments Credit Opportunities: ECE Intro to Computing for Engineers, AP Chemistry, AP Biology, AP Physics, AP Environmental Science, AP Research

Recommended Clubs & Organizations: Science Olympiads, Future Problem Solvers

STEP TWO: CHOOSE A PATHWAY THAT INTERESTS YOU AND SELECT PATHWAY COURSES Students entering the pathway for the first time begin in the introductory course.	
Introductory Course	**Advanced Courses in Sequence**
Anatomy and Physiology	AP Biology
Biology/ Honors Biology	AP Chemistry
Chemistry	AP Environmental Science
Computer Assisted Design (CAD) I	AP Physics
Computer Science Principles	AP Research
Construction	Aquaponics
Environmental Building Design	Computer Assisted Design (CAD) II
Genetics	Computer Assisted Design (CAD) III
Human Immunity and Disease	ECE Intro to Computing for Engineers
Physics	Intro Oceanography
Robotics	Medical Terminology
Wood Tech I	Wood Tech II
	Wood Tech III

POST-SECONDARY CAREER PATHS & FUTURE CAREERS		
Jobs after High School	**Careers after Continued Education**	
Health Information	Acupuncturists and Healthcare	Obstetricians and Gynecologists
Laboratory Animal Caretakers	Athletic Trainers	Occupational Therapy Assistants
Medical Assistants	Audiologists	Optometrists
Medical Registrars	Dentist, General	Pediatricians, General
Medical Secretaries	Cardiovascular Technologists/Technicians	Pharmacists
Medical Transcriptionists	Chiropractors	Physical Therapists
Opticians, Dispensing	Clinical Laboratory	Physician Assistants
Nursing Assistants	Technologists/Technicians	Psychiatrists
Pharmacy Aides	Dental Hygienists	Radiation Therapists
Pharmacy Technicians	Diagnostic Medical Sonographers	Radiologic Technologists
Phlebotomists	Dietitians and Nutritionists	Registered Nurses
Physical Therapist Aides	Family Medical Physicians	Respiratory Therapists
Practical/Vocational Nurses	General Internal Medicine Physicians	Speech-Language Pathologists
Surgical Assistants	Magnetic Resonance Imaging Technologists	Surgeons
Technologist	Medical and Health Services Managers	Veterinarians
Veterinary Assistants	Nuclear Medicine Technologists	Veterinary Technologists/Technicians
	Nurse Practitioners	

*All career pathway information outlined in this booklet was adapted from the Connecticut Career Paths