

CAREER CLUSTERS AND CAREER PATHWAYS

Career clusters are a way of grouping careers with common features and skills. Careers grouped into the same cluster typically require similar education and training. Exploring clusters can be a useful way to find a good career match, especially if you have general areas of interest but are not sure what specific careers match those interests. Career clusters can also help you better understand how your coursework in high school can prepare you for certain types of careers. More information on the sixteen clusters may be found online at <https://www.onetonline.org/find/career> or <http://careerclusters.org/>. Students can also explore careers and career clusters through Naviance (<http://connection.naviance.com/rockyhill>).

Below is a list of the 16 career clusters, the career pathway associated with the career clusters, and suggested Rocky Hill High School courses that can provide exposure to the careers. Students must meet graduation requirements, as listed in the Program of Studies.

Agriculture, Food & Natural Resources: The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources.

- Agribusiness Systems
- Animal Systems
- Environmental Service Systems
- Food Products & Processing Systems
- Natural Resources Systems
- Plant Systems
- Power, Structural & Technical Systems Architecture & Construction

RHHS Courses: Accounting (EVT); Botany (S); Civil Engineering-Arch (EVT); CT River (S); Culinary I (EVT); Culinary II (EVT); Entrepreneurship (EVT); Horticulture (S); Intro to Bus (EVT); International Business (EVT); Marketing (EVT)

Architecture & Construction: Careers in designing, planning, managing, building and maintaining the built environment.

- Construction
- Design/Pre- Construction
- Maintenance/Operations

RHHS Courses: Advanced Materials Processing (EVT); AP Calculus (M); AP Studio Art (EAMH); Advanced Studio Art (EAMH); Comm-Media Literacy (E); Digital Design I & II (EAMH); Drawing I (EAMH); Interior Design (EVT); Auto & Home Maint (EVT); Intro to Calculus (M); Materials Processing (EVT); Physics (S); PreCalculus (M); Project Lead the Way courses (EVT): Intro to Engineering; Principles of Engineering, Civil Engineering-Arch, Eng Design & Develop.

Arts, A/V Technology & Communications: Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services

- A/V Technology & Film
- Journalism & Broadcasting
- Performing Arts
- Printing Technology
- Telecommunications
- Visual Arts

RHHS Courses: Advanced Materials Processing (EVT); Advanced Studio Art (EAMH); AP Studio Art (EAMH); Band (EAMH); Ceramics I & II (EAMH); Chamber Choir (EAMH); Chorale (EAMH); Computer Tech (EVT); Concert Choir (EAMH); Crafts I & II (EAMH); Creative Writing (EAMH); Desktop Publishing (EVT); Digital Design I & II (EAMH); Drawing I (EAMH); Fashion Design I & II (EVT); Film (EAMH); Jazz Band (EAMH); Journalism (E or EAMH); Marching Band (EAMH); Materials Processing (EVT); Orchestra (EAMH); Painting I & II (EAMH); Photography I & II (EAMH); Public Speaking (EAMH); Sculpture (EAMH); Shakespeare (E); Symphonic Band (EAMH); Video & Animation (EAMH) ; World Language (WL)

Business Management & Administration: Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions. Business Management and Administration career opportunities are available in every sector of the economy.

- Administrative Support
- Business Information Management
- General Management
- Human Resources Management
- Operations Management

RHHS Courses: Accounting & Advanced Accounting (EVT); AP Psychology (EAMH); Business Law (EVT); Civics (SS); Entrepreneurship (EVT); Fashion Design I & II (EVT); Fashion Merchandising (EVT); Intro to Business (EVT); International Business (EVT); Marketing (EVT); Personal Finance (EVT); Psychology (EAMH); Public Speaking (EAMH); World Language (WL)

Students must enroll in classes that will meet graduation requirements. RHHS courses listed within each career cluster will meet these graduation requirements based on the following categories: (E)=English; (M)=Math; (S)=Science; (SS)=Social Studies; (WL) = World Language; (EL)=General Elective; (EAMH)=Art/Music/Humanities Elective; (EVT)=Vocational/Technical Elective; (CL)=Computer Literacy

Education & Training: Planning, managing and providing education and training services, and related learning support services.

- Administration & Administrative Support
- Professional Support Services
- Teaching/Training

RHHS Courses: AP Psychology (EAMH); Athletic Leadership I & II (EVT); Child and Adolescent Development (EVT); Civics (SS); Desktop Publishing (EVT); Early Childhood Education (EVT); Lifeguard Certification (EVT); Marriage and Family (EVT); Psychology (EAMH); Public Speaking (EAMH); UCONN Individual & Family Development (EVT); World Language (WL)

Finance: Planning, services for financial and investment planning, banking, insurance, and business financial management.

- Accounting
- Business Finance
- Securities & Investments
- Banking Services
- Insurance

RHHS Courses: Accounting (EVT); Advanced Accounting (EVT); Applied Math (M); AP Statistics (M); Civics (SS); Entrepreneurship (EVT); Independent Living (EVT); Intro to Business (EVT); Intl Business (EVT); (Personal Finance (EVT); Probability & Statistics (M); World Language (WL)

Government & Public Administration: Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration.

- Foreign Service
- Governance
- National Security
- Planning
- Public Management & Administration
- Regulation
- Revenue & Taxation

RHHS Courses: AP Comparative Govt (SS); AP Psychology (EAMH); AP US Government (SS); Business Law (EVT); Civics (SS); Current Events (SS); International Business (EVT); Journalism (E or EAMH); Psychology (EAMH); Public Speaking (EAMH); US History (SS); World Language (WL)

Health Sciences: Planning, managing, and providing therapeutic services, diagnostic services, health information, support services, and biotechnology research and development.

- Biotechnology Research & Development
- Diagnostic Services
- Health Informatics
- Support Services
- Therapeutic Services

RHHS Courses: AP Biology (S); AP Psychology (EAMH); Child & Adolescent Development (EVT); Civics (SS); Early Childhood Education (EVT); Human Anatomy & Physiology (S); Lifeguard Certification (E); Physics (S); Psychology (EAMH); UCONN Indiv & Family Development (EVT); World Language (WL)

Hospitality & Tourism: Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.

- Lodging
- Recreation, Amusements & Attractions
- Restaurants & Food/Beverage Services
- Travel & Tourism

RHHS Courses: Accounting (EVT); Advanced Accounting (EVT); Culinary I & II (EVT); Entrepreneurship (EVT); Interior Design (EVT); International Business (EVT); Intro to Business (EVT); Marketing (EVT); Public Speaking (EAMH); World Language (WL)

Human Services: Preparing individuals for employment in career pathways that relate to families and human needs.

- Consumer Services
- Counseling & Mental Health Services
- Early Childhood Development & Services
- Family & Community Services
- Personal Care Services

RHHS Courses: AP Psychology (EAMH); Child & Adolescent Development (EVT); Civics (SS); Early Childhood Education (EVT); Independent Living (EVT); Marketing (EVT); Marriage & Family (EVT); Personal Finance (EVT); Public Speaking (EAMH); Psychology (EAMH); UCONN Indiv & Family Devel (EVT); World Language (WL)

Information Technology: Building Linkages in IT Occupations Framework: Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.

- Information Support & Services
- Network Systems
- Programming & Software Development
- Web & Digital Communications

RHHS Courses: Computer Tech (EVT); Desktop Publishing (EVT); Digital Design I & II (EAMH); Engineering Design & Development (EVT); Intro to Business (EVT); Intro to Engineering (EVT); Robotics Eng & Adv Robotics (EVT); Video & Animation (EAMH)

Law, Public Safety, Corrections & Security: Planning, managing, and providing legal, public safety, protective services and home land security, including professional and technical support services.

- Correction Services
- Emergency & Fire Management Services
- Law Enforcement Services
- Legal Services
- Security & Protective Services

RHHS Courses: AP Psychology (EAMH); Business Law (EVT); Child & Adolescent Development (EVT); Civics (SS); Early Childhood Education (EVT); Forensic Science (S); Journalism (E or EAMH); Lifeguard Certification (EVT); Psychology (EAMH); Public Speaking (EAMH); US History (SS); World Language (WL)

Manufacturing: Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

- Health, Safety & Environmental Assurance
- Logistics & Inventory Control
- Maintenance, Installation & Repair
- Manufacturing Production Process Dev.
- Production
- Quality Assurance

RHHS Courses: Advanced Materials (EVT); Calculus (M); Chemistry (S); Entrepreneurship (EVT); Fashion Design I & II (EVT); International Business (EVT); Intro to Business (EVT); Materials Processing (EVT); Physics (S); PreCalculus (M); Project Lead the Way courses (EVT): Intro to Engineering; Principles of Engineering, Civil Engineering-Arch, Eng Design & Develop; Robotics Eng & Adv Robotics (EVT)

Marketing: Planning, managing, and performing marketing activities to reach organizational objectives.

- Marketing Communications
- Marketing Management
- Marketing Research
- Merchandising
- Professional Sales

RHHS Courses: AP Psychology (EAMH); Business Law (EVT); Civics (SS); Comm-Media Literacy (E); Creative Writing (EAMH); Desktop Publishing (EVT); Digital Design I & II (EAMH); Entrepreneurship (EVT); Fashion Merchandising (EVT); Intro to Business (EVT); International Business (EVT); Journalism Journalism (E or EAMH); Marketing (EVT); Photography (EAMH); Psychology (EAMH); Public Speaking (EAMH); World Language (WL)

Science, Technology, Engineering & Mathematics: Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

- Engineering & Technology
- Science & Mathematics

RHHS Courses: Advanced Math and Science classes; AP Psychology (EAMH); Civics (SS); Computer Tech (EVT); Psychology (EAMH); Project Lead the Way courses (EVT): Intro to Engineering; Principles of Engineering, Civil Engineering-Arch, Eng Design & Develop; Robotics Eng & Adv Robotics (EVT); World Language (WL)

Transportation, Distribution & Logistics: Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

- Facility & Mobile Equipment Maintenance
- Health, Safety & Environmental Management
- Logistics Planning & Management Services
- Sales & Service
- Transportation Operations
- Transportation Systems/Infrastructure Planning, Management & Regulation
- Warehousing & Distribution Center Operations

RHHS Courses: Entrepreneurship (EVT); Intro to Business (EVT); International Business (EVT); Intro to Auto & Home Maint (EVT); Marketing (EVT); Public Speaking (EAMH); Journalism (E or EAMH); Project Lead the Way courses (EVT): Intro to Engineering; Principles of Engineering, Civil Engineering-Arch, Eng Design & Develop; World Language (WL)

ROCKY HILL HIGH SCHOOL COURSE OFFERINGS

ART

“Creativity is a key part of the educated mind.”

~by Sir Ken Robinson

Arts education helps students foster a sense of flexibility, a key component to creativity. Self-expression and communication are enhanced. And art is just fun. In order to attend an art university, you must have a portfolio that has not only breadth in medium but depth in concept. This can only be achieved by a focused sequential approach to selecting art courses. A suggested sequence is listed below.

Some Art Related Careers:

Studio/Fine Art	2D Design/Graphic Arts	3D Design
Airbrushing	Animator	Automobile Designer
Architecture	Art/Film Critic	Craftsperson
Art Consultant/Dealer	Automobile Designer	• Blacksmithing
Art Teacher	CAD Designer	• Ceramicist
Art Therapist	Film And Video Artist	• Glass Blowing
Character Designer	Graphic/Advertising Designer	• Mosaic Artist
Comic book artist	• Brand Design	• Woodworking
Fashion Designer	• Logo Design	Fashion Accessory Designer
Fine Art/Studio Artist	• Package Design	Floral Design
Forensic Artist	• Layout Artist	Food Stylist
Graffiti artist	Legal Visual Aids Artist	Furniture Designer
Illustration	Graphic Designer	Industrial Design
• Children’s Book Illustrator	Motion Graphics Designer	Jewelry Design
• Medical Illustrator	Multi Media Designer	Model Maker
• Set Designer/Illustrator	Photographer	Sculptor
• Technical Illustrator	Advertising Photographer	Taxidermist
Interior Design	• Documentary Photographer	Toy Designer
Landscape Architect	• Photojournalist	Special Effects Designers
Muralist	• Wedding Photographer	Puppet Maker
Museum Exhibit Design	• Portrait Photographer	Product designer
Painter	Character Designer	
Tattoo Artist	Textile Designer	
Sketch artist	Video Game Art & Design	
Makeup Artist	Web Designer	

Recommended Course Sequence

	Studio/Fine Arts	2d Design/Graphic Arts	3d Design
9th Foundation	Drawing I Art and Biology*	Digital Design I* Photography I*	Ceramics I Crafts I
10th	Painting I Painting II	Photography II* Digital Design II* Video and Animation I*	Ceramics II Crafts II Sculpture
11th	Advanced Studio Art		
12th	AP Studio Art Independent Study		
* indicates courses that also fulfill the computer literacy requirement			
<i>Note: ALL ART COURSES may be taken at the honors level, which will require students to do additional written assignments with more rigorous expectations for achievement on projects. Students will be required to demonstrate an independent approach, a strong work ethic, and a commitment of additional time. The application for honors must be filed during the first 10 days of the semester and requires teacher approval.</i>			

**CTE - Business Education Career Pathways
Career Clusters**

Business Administration:

Account Manager, Administrative Assistant, Advertising Manager, Entrepreneur, Event Planner, Executive Assistant, Fashion Marketing and Sales, Food Service Manager, Health Care Manager, Human Resource Manager, Marketing Assistant, Retailing Careers, Sales

Finance and Accounting:

Accountant, Accounting Clerk, Bank Teller, Bookkeeper, Budget Analyst, Chief Financial Officer, Data Analyst, FBI Agent, Financial Analyst, Financial Examiner, Financial Manager, Forensic Accountant, Insurance Agent, Internal Auditor, Loan Officer, Payroll Manager, Personal Financial Advisor, Stockbroker, Tax Collector, Treasurer

Business Administration	Finance/Accounting
Introduction to Business ½ credit 9, 10, 11 or 12	Introduction to Business ½ credit 9, 10, 11 or 12
Entrepreneurship ½ credit 9, 10, 11 or 12	International Business ½ credit 9, 10, 11 or 12
Desktop Publishing ½ credit 9, 10, 11 or 12	Accounting One 1 credit 10, 11 or 12
International Business ½ credit 9, 10, 11 or 12	Personal Finance ½ credit 10, 11 or 12
Accounting One 1 credit 10, 11 or 12	Business Law ½ credit 11 or 12
Personal Finance ½ credit 10, 11 or 12	Advanced Accounting (prerequisite: Accounting One) 1 credit 11 or 12
Business Law ½ credit 11 or 12	
Marketing ½ credit 11 or 12	

**CTE - Family and Consumer Sciences Career Pathways
Career Clusters**

Culinary, Hospitality and Tourism:

Cake Designer, Cruise Ship Staff, Entrepreneur, Event Planner, Executive Chef, Family & Consumer Sciences Teacher, Food Scientist, Caterer, Food and Beverage Manager, Food Critic/Writer, Food Photographer, Food Stylist, Hospitality, Nutritionist, Pastry Chef, Personal Chef, Recipe Developer, Restaurant Manager, Restaurant Owner, Spa Chef

Human Services and Education:

Child advocate/protective services worker, Counselor, Early childhood teacher, Elementary teacher, Family and Consumer Sciences Teacher, Family Therapist, Physical, Occupational or Speech therapist, Nurse or other healthcare worker, Public and/or Global Health, Psychologist, Social Worker

Fashion Design and Retail Merchandising:

Buyer, Family and Consumer Sciences Teacher, Fashion Branding and Public Relations, Fashion Designer, Fashion Editor/Journalist, Fashion Photographer, Fashion Marketing and Sales, Fashion Model, Pattern Maker, Production and Product Development, Retail Management, Seamstress/Tailor, Stylist, Visual Merchandiser

Culinary, Hospitality and Tourism	Human Services and Education	Fashion Design and Retail Merchandising
Culinary I 1 credit (9, 10, 11, or 12)	Child and Adolescent Development 1 credit (9, 10, 11, or 12)	Fashion Design I 1 credit (9,10,11, or 12)
Culinary II (prerequisite Culinary I) 1 credit (10, 11, or 12)	Marriage and Family ½ credit (9, 10, 11, or 12)	Fashion Design II (prerequisite Fashion Design I) 1 credit (10, 11, or 12)
	Early Childhood Education (prerequisite Child and Adolescent Development) 1 credit (10, 11 or 12)	Fashion Merchandising ½ credit (9, 10, 11, or 12)
	Individual and Family Development AP and UConn credit 1 credit (11 or 12)	

**CTE - Technology Education Department Career Pathways
Careers Clusters**

Computers:

Computer Programmer, Computer Networker, Computer Technician, Data Analyst, Electromechanical Technician, Hardware Information Technology (IT), Maintenance Technician, Robotics Operator, Robotics Technician, Software Developer, Software Tester, Web Developer/Designer

Engineering:

Aerospace Engineer, Architecture, Architectural Engineer, Automotive Engineer, Biomedical Engineer, CADD Designer/Drafter, Chemical Engineer, Civil Engineer, Computer Hardware Engineer, Construction Engineer, Electronic Engineer, Electrical Engineer, Geological Engineer, Industrial Engineer, Mechanical Engineer, Robotics Engineer, Structural Engineer

Skills/Trades:

Appliance Repair, Cabinetmaker, Carpenter, Carpet Installer, Contractor, Drywaller, Electrician, Framer, Furniture Refinisher/Restorer, Heating Ventilation And Cooling (HVAC), House Inspector, Interior Designer, Manufacturer, Mason, Mechanic, Painter, Pipe Fitter, Plumber, Quality Control Manager, Refrigeration Service Person, Roofer, Siding Specialist, Tile Installer, Upholsterer, Welder

	<u>Computers</u>	<u>Engineering</u>	<u>Skills/Trade</u>
Step 1	Computer Tech (½ yr) (9th, 10th, 11th, 12th) Robotics 1 (½ yr) (9th, 10th, 11th, 12th)	Introduction To Engineering Design (9th, 10th, 11th, 12th)	Material Processing 1 (9th, 10th, 11th, 12th) Home & Auto (½ yr) (9th, 10th, 11th, 12th)
Step 2	Robotics 2 (½ yr) (9th, 10th, 11th, 12th)	Civil Engineering & Architecture (10th, 11th, 12th)	Material Processing 2 (10th, 11th, 12th)
Step 3		Principles Of Engineering (10th, 11th, 12th)	
Step 4		Engineering Design & Development (12th)	

