

YouScience® industry-recognized certification sequences

Build career-ready expertise with stackable certifications that progress from core skills to role-ready specializations, culminating in a capstone credential that proves readiness and signals immediate impact.

Below are certification sequences co-developed with leading employers that validate the essential skills for high-demand roles.



Accounting and Financial Services Sequence:

Accounting | Banking and Finance | Investing and Wealth Management

Advanced Engineering Pathway:

Engineering Technology | Engineering Principles 2 | Mechanical Design 1 | Robotics 1

Agricultural Mechanics Sequence (Advanced):

Agricultural Mechanics and Technology 1 | Agricultural Mechanics and Technology 2 | Agricultural Mechanics, Advanced | Welding Technician 1 | Welding Technician 2

Agricultural Mechanics Sequence (Machinery Tech):

Agricultural Mechanics and Technology 1 | Agricultural Mechanics and Technology 2 | Agricultural Machinery Technology | Welding Technician 1 | Welding Technician 2

Animal and Veterinary Science Sequence:

Agricultural Science | Animal Science 1 | Animal Science 2 | Veterinary Assistant 1 | Veterinary Assistant 2

Architectural Design Sequence (CAD/Drafting):

Engineering Principles 1 | Architectural Design 1 | Architectural Design 2 | Architectural Design 3

Audio Production Sequence:

Digital Media 1 | Digital Audio 1 | Digital Audio 2 | Radio Production 1 | Radio Production 2

Automation and Robotics Sequence:

Engineering Principles 1 | Electronics | Robotics 1 | Robotics 2

Automotive Technology Sequence:

Automotive Service Fundamentals | Small Engine Repair | Basic Automotive Collision Repair

Business Management and Administration Sequence:

Business Concepts | Business Management | Business Leadership 1 | Business Leadership 2 | Business Law | Business Office Specialist

Clinical Medical Assistant:

Health Science, Foundation | Medical Assistant

Commercial Arts and Photography Sequence:

Commercial Art 1 | Commercial Art 2 | Commercial Photography 1 | Commercial Photography 2 | Commercial Art 3

Construction Trades Sequence (Generalist):

Construction Trades Foundation | Carpentry | Plumbing | HVAC-R | Welding Technician 1

Construction Trades Sequence (Welding Specialist):

Construction Trades Foundation | Welding Technician

Construction Trades Sequence (Woodworking Specialist):

Construction Trades Foundation | Woodworking, Beginning | Woods 2 | Woods 3

CTE Instructor Sequence:

Welding Technician | Teaching as a Profession 1 | Teaching as a Profession 2 | Teaching as a Profession 3

Culinary Arts and Management Sequence:

Culinary 1 | Culinary Advanced | Baking and Pastry | Business Management | Entrepreneurship

Cybersecurity Sequence:

Network Fundamentals | Principles of Cyber Defence and Ethics (Pilot) | Cyber Forensics (Pilot) | Cloud Computing 2

Dental Assisting Sequence:

Health Science, Introduction | Dental Assistant – Dental Science 1 | Dental Assistant – Dental Science 2 | Dental Assistant – Dental Science 3

Digital Design and Animation Sequence (Game Dev):

3D Graphics | 3D Animation 1 | 3D Animation 2 | Game Development Fundamentals 1 | Game Development Fundamentals 2

Early Childhood Education Sequence:

Child Development | Early Childhood Education 1 | Early Childhood Education 2 | Early Childhood Education 3

Emergency Services Sequence (EMT):

Health Science, Introduction | Emergency Medical Technician (EMT)

Emergency Response Sequence (Fire/EMT):

Fire Science | Emergency Medical Technician (EMT) | Criminal Justice Fundamentals

Family and Community Services Sequence:

Human Development | Individual and Family Relationships | Adult Roles and Responsibilities | Personal and Family Finance | Behavioral Health, Introduction

Fashion Merchandising and Design Sequence:

Fashion Design Merchandising 1 | Fashion Design Merchandising 2 | Fashion Design Studio | Marketing 1 | Retailing

Fashion and Textile Design Sequence:

Sewing Construction and Textiles 1 | Sewing Construction and Textiles 2 | Fashion Design Merchandising 1 | Fashion Design Studio | Sewing Construction and Textiles 3

Forensic Investigation Sequence:

Criminal Justice Fundamentals | Medical Forensics | Cyber Forensics (Pilot)

Food Science and Nutrition Sequence:

Food and Nutrition | Food Production and Processing | Dietetics and Nutrition 1 | Biotechnology

Foundational Health Science Sequence (NCHSE Aligned):

Foundations of Healthcare Professions | Essential Healthcare Practices | Human Structure Function Disease A | Human Structure Function Disease B | National Health Science Certificate

Graphic and Print Design Sequence:

Digital Media 1 | Graphic Print Design 1 | Desktop Publishing 1 | Graphic Print Design 2 | Desktop Publishing 2 | Graphic Print Design 3

Healthcare Administration Sequence:

Computer Technology 1 | Business Office Specialist | Medical Terminology | Medical Assisting - Medical Office Management

Health Science Specialist Sequence (Biotech/Forensics):

Health Science, Introduction | Biotechnology | Clinical Laboratory Technology | Medical Forensics

Hospitality and Event Management Sequence:

Hospitality and Tourism | Customer Service
| Event Planning and Management | Lodging and Recreation | Business Leadership 1

Interior Design Sequence:

Interior Design | Commercial Art 1

IT Support and Networking Sequence:

Information Technology, Introduction
| Computer Technology 1 | Network Fundamentals | Cloud Computing 1 | Linux Fundamentals | Computer Systems 2

Law Enforcement and Criminal Justice Sequence:

Criminal Justice Fundamentals | Criminal Justice 1 | Criminal Justice 2 | Law Enforcement

Machining and Mechanical Design Sequence:

Manufacturing Principles 1 | Machining 1
| Machining Advanced | Mechanical Design 1
| Manufacturing Technology

Marketing and Digital Commerce Sequence:

Marketing | Digital Marketing | Business Web Page Design | Influencer and Content Marketing | Sports and Outdoor Recreation Marketing

Mechanical Design Sequence (CAD/Drafting):

Engineering Principles 1 | Mechanical Design 1
| Mechanical Design 2 | Mechanical Design 3

Medical Assisting Sequence:

Health Science, Introduction | Medical Terminology | Medical Assistant

Natural Resource Management Sequence (Aquaculture):

Natural Resource Science 1 | Natural Resource Science 2 | Aquaculture

Natural Resource Management Sequence (Ag. Biology):

Natural Resource Science 1 | Natural Resource Science 2 | Agricultural Biology

Patient Care:

Health Science, Introduction | Medical Terminology | Medical Assisting-Anatomy and Physiology | Nursing Assistant

Plant Systems Sequence (Floriculture):

Agricultural Science | Plant and Soil Science 1
| Plant and Soil Science 2 | Floriculture
| Floriculture, Advanced

Plant Systems Sequence (Greenhouse Management):

Agricultural Science | Plant and Soil Science 1
| Plant and Soil Science 2 | Greenhouse Management | Floriculture and Greenhouse Management

Real Estate & Property Management:

Entrepreneurship | Marketing Fundamentals | General Financial Literacy | Real Estate

Software Development Sequence (C#):

Exploring Computer Science | Computer Science Principles | Computer Programming 1
| Computer Programming 2 (C#) | Algorithms and Data Structures | Computer Programming, Advanced

Software Development Sequence (C++):

Exploring Computer Science | Computer Science Principles | Computer Programming 1
| Computer Programming 2 (C++)
| Algorithms and Data Structures | Computer Programming, Advanced

Software Development Sequence (Java):

Exploring Computer Science | Computer Science Principles | Computer Programming 1
| Computer Programming 2 (Java) | Algorithms and Data Structures | Computer Programming, Advanced

Software Development Sequence (Python):

Exploring Computer Science | Computer Science Principles | Computer Programming 1
| Computer Programming 2 (Python)
| Algorithms and Data Structures | Computer Programming, Advanced

Teaching as a Profession Sequence:

Teaching as a Profession 1 | Teaching as a Profession 2 | Teaching as a Profession 3

Therapeutic Services Sequence (Sports Med/PT):

Health Science, Introduction | Medical Anatomy and Physiology | Exercise Science and Sports Medicine | Physical Therapy, Introduction

Unmanned Aerial Systems (Drones) Sequence:

Unmanned Aerial Systems | UAS Lab: Design Build Maintain (Pilot) | UAS Lab: Intermediate Flight (Pilot) | Private Pilot (Pilot)

Video Production Sequence:

Digital Media 1 | Video Production 1 | Video Production 2 | Television Broadcasting 1
| Television Broadcasting 2

Web and Digital Design Pathway:

Digital Media 1 | Digital Media 2 | Web Development 1 | Web Development 2

Web and Mobile Development Sequence:

Computer Programming 1 | Web Development 1
| Web Development 2 | Database Development (Pilot) | Mobile Development Fundamentals

Welding and Fabrication Sequence:

Welding Technician 1 | Welding Technician 2
| Welding Technician 3 | Material Science
| Non-Destructive Testing



Scan to access detailed standards and blueprints for each certification.

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