Health Science Pathways \*Medical Anatomy & Physiology counts as a 3rd science credit

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| **Pathway** | **Sports Medicine** | **Health Science** | | **Nursing** | **Medical Forensics** | **Pre-Med** |
| **Possible Occupations** | Athletic Trainer, Physical Therapist, Chiropractor | Rad. Tech, Dental, Lab. Science,  Health Admin, Respiratory | | C.N.A., LPN, RN, Nurse Practitioner, Physician Assistant, Midwife | CSI, Toxicologist,  Medical Examiner | Physician, Surgeon |
| **REQUIRED**  **Foundation**  **Courses** | **10th Grade**  **Introduction to Health Science (10th)**  .5 CTE Credit  .5 Hlth Ed II Credit  **11th Grade**  **Medical Anatomy & Physiology OR/AND Medical Forensics**  3rd Yr. Science  **Medical Terminology**  2 CE Credits  **Emergency Medical Responder**  3 CE Credits | **10th Grade**  **Introduction to Health Science (10th)**  .5 CTE Credit  .5 Hlth Ed II Credit  **11th Grade**  **Medical Anatomy & Physiology OR/AND Medical Forensics**  3rd Yr. Science  **Medical Terminology**  2 CE Credits  **Emergency Medical Responder**  3 CE Credits | | **10th Grade**  **Introduction to Health Science (10th)**  .5 CTE Credit  .5 Hlth Ed II Credit  **11th Grade**  **Medical Anatomy & Physiology OR/AND Medical Forensics**  3rd Yr. Science  **Medical Terminology**  2 CE Credits  **Emergency Medical Responder**  3 CE Credits | **10th Grade Introduction to Health Science (10th)**  .5 CTE Credit  .5 Hlth Ed II Credit  **11th Grade**  **Medical Anatomy & Physiology OR/AND Medical Forensics**  3rd Yr. Science  **Medical Terminology**  2 CE Credits  **Emergency Medical Responder**  3 CE Credits | **10th Grade Introduction to Health Science (10th)**  .5 CTE Credit  .5 Hlth Ed II Credit  **11th Grade**  **Medical Anatomy & Physiology OR/AND Medical Forensics**  3rd Yr. Science  **Medical Terminology**  2 CE Credits  **Emergency Medical Responder**  3 CE Credits |
| **Highly Recommended Elective Courses** | **12th Grade**  **Exercise Science**  3 CE Credits  OR  **Physical Therapy Aide** (WIC)  **Advanced Health Science**  8 CE Credits  **Student Internship** | **12th Grade**  **Advanced Health Science**  8 CE Credits  **Student Internship** | | **12th Grade**  **Nursing Assistant (C.N.A.)**  **Nutrition 1020**  3 CE Credits  **AP Psychology**  **Advanced Health Science**  8 CE Credits | **12th Grade**  **Medical Forensics**  3rd Yr. Science  **Student Internship** | **12th Grade**  **AP Chemistry**  **Physics**  **AP Calculus**  **1 Skills Based Class**  -Nurse Assistant  -Exercise Science  -Physical Therapy Aide  **Student Internship** |
| **Support Courses**  **For ALL Pathways** | Math 1050 Communication 2110  AP Biology (Jr) Physics  English 1010 Chemistry (Soph, Jr.) | |  |  | | |

Business Education Pathways

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| **Pathway** | **Accounting and Finance** | **Business**  **Administrative**  **Support** | **Business**  **Entrepreneurship** | **Business Management** | **Business Technology**  **Support** |
| **Possible**  **Occupations** | Accountant, Accounting  Clerk, Bookkeeper, Business Ed. Teacher, Loan Officer, Tax Examiner | Administrative Assistant,  Business Teacher, Customer Service Assistant, Desktop Publishing Specialist, Office Mgr. | Inventor, Retail  Owner/Operator, Sales and Service Owner, Wed Developer, Venture Capitalist | Business Consultant, Business  Manager, Chief Executive Officer, e-commerce Manager, Entrepreneur, PR Manager | Customer Service Assistant  Desktop Publisher, Executive Assistant, Office Manager, Secretary, Web Page Master |
| **REQUIRED**  **Foundation**  **Courses** | 11th, 12th  Accounting I Accounting II | 10th, 11th, 12th  Digital Business  Applications  11th, 12th  Computer Technology II  (CE) | 10th, 11th, 12th  Business Law  Marketing  Business Management  11th, 12th  Entrepreneurship (CE) | 11th, 12th  Business Management  Business Law  Digital Business Applications  Marketing I | 10th, 11th, 12th  Digital Business  Applications  Business Web Page Design  11th, 12th  Computer Technology II (CE) |
| **Highly**  **Recommended Elective Courses** | 10th , 11th, 12th  Business Law,  Business Management  Digital Business Applications  Marketing I  11th or 12th Entrepreneurship (CE) Computer Technology II (CE) Leadership Principles (CE)  12th  Student Internship- Must take a preliminary course CWS online | 10th, 11th, 12th  Accounting I Accounting II Business Law  Business Management  Web Development 1A & 1B  Marketing I  11th, 12th  Leadership Principles (CE)  12th  Student Internship- Must take a preliminary course CWS online | 10th, 11th, 12th  Accounting I Accounting II  Web Page Development 1A  &1B  Digital Business Applications  Sports Marketing & Applied  11th, 12th  Computer Technology II (CE)  Customer Service (CE) Leadership Principles (CE)  12th  Student Internship- Must take a preliminary course CWS online | 10th, 11th. 12th  Accounting I Accounting II  Web Development 1A & 1B  11th, 12th  Computer Technology II (CE) Customer Service (CE) Leadership Principles (CE) Entrepreneurship(CE)  12th  Student Internship- Must  take a preliminary course CWS  online | 10th, 11th, 12th  Business Law  Business Management  Web Development 1A &  1B Marketing I  11th or 12th  Leadership Principles (CE) Customer Service(CE)  12th  Student Internship- Must take a preliminary course CWS online |
| **Support**  **Courses** | Retail School Store(CE)  Customer Service (CE) Communications 2110 (CE) | Computer Programming A  Computer Programming B (CE)  Customer Service(CE)  Communications 2110 (CE) | Travel and Tourism  Communications 2110 (CE) Retail School Store (CE) Computer Programming A Computer Programming B (CE) | Communications 2110 (CE)  Retail School Store (CE) Computer Programming A Computer Programming B (CE) | Communications 2110 (CE)  Entrepreneurship(CE) |

CE= Concurrent Enrollment

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| **Pathway** | **Accounting and Finance** |
| **Possible**  **Occupations** | Accountant, Accounting  Clerk, Auditor, Bookkeeper, Loan Officer, Tax Examiner, Tax Preparer |
| **REQUIRED Foundation Courses** | 10th, 11th, 12th  Accounting I  Accounting II |
| **Highly**  **Recommended Elective Courses** | 10th, 11th, 12th  Business Law  Business Management  Digital Business Applications  Marketing I  11th, 12th Entrepreneurship (CE) Computer Technology II (CE)  12th  Student Internship- Must  take a preliminary course  CWS online |
| **Support**  **Courses** | Customer Service (CE)  Retail School Store (CE) |

Students receive university credit while attending high school. Student must be a junior to receive university credit in this pathway.

Family and Consumer Science Pathways

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| **Pathway** | **Child Development** | **Consumer Economics**  **Services** | **Family and Human**  **Services** | **Fashion Design, Manufacturing and Merchandising** | **Food Science, Dietetics, Nutrition** |
| **Possible**  **Occupations** | Administrative Childcare  Program, Child Care Aide/worker, Counseling Psychologist, Elementary Education, FACS Education, Preschool Teacher, Social Worker, Teacher Assistant | Consumer Advocate,  Consumer Consultant, Consumer Economist, Credit Counselor, FACS Teacher, Financial Planner, Product Developer, Product Researcher | Adult Day Care Center  Coordinator, Community Service Director, Counseling Psychologist, Employment Counselor, Geriatric Service Worker, Marriage and Family Therapist | Fashion Designer, Retail  Sales, Retail Buyer, Tailor, Wholesale Buyer | Dietetic Technician,  FACS Teacher, Dietician, Food Scientist, Food Technologist, Medical Dietician, Nutritionist |
| **REQUIRED**  **Foundation**  **Courses** | 10th, 11th  Child Development  Early Childhood Education IA Food and Nutrition I | 10th, 11th  Accounting I  11th, 12th  Adult Roles and Financial  Responsibilities (CE) | 10th, 11th  Child Development  Foods and Nutrition I  11th, 12th  Adult Roles and Financial  Responsibilities ( CE) | 10th, 11th  Clothing I Clothing II  Fashion Strategies | 10th, 11th  Food and Nutrition I Food and Nutrition II |
| **Highly**  **Recommended Elective Courses** | 10th, 11th, 12th  Food and Nutrition II  Early Childhood Education IB Accounting I  11th, 12th  Human Development (CE) Foundations of Nutrition (CE) Early Childhood Education II Head Teacher  12th  Education 1010 (CE)  Student Internship- Must take a preliminary course CWS online | 11th, 12th  Customer Service (CE) Entrepreneurship (CE)  12th  Student Internship- Must take a preliminary course CWS online | 10th, 11th, 12th  Foods and Nutrition II  11th, 12th  Foundations of Nutrition (CE) Human Development (CE)  12th  Student Internship- Must take a preliminary course CWS online | 10th, 11th, 12th  Fashion Merchandising I Designer Sewing I  Accounting I  11th, 12th Advertising and Promotions (CE) Entrepreneurship (CE) Fashion Academy (CE)  12th  Student Internship- Must take a preliminary course CWS online | 10th 11th, 12th  Child Development  11th , 12th  Foundations of Nutrition  (CE)  Human Development  (CE)  12th  Student Internship-  Must take a preliminary course CWS online |
| **Support**  **Courses** | Psychology and AP  Psychology 1010 (CE)  Communications 2110 (CE) Education 1010 (CE) Emergency Medical Response (CE) | Marketing I  Education 1010 (CE) | Psychology and AP  Psychology 1010(CE)  Communications 2110 (CE) | Advanced Fashion  Merchandising (CE)  Retail School Store (CE) Communications 2110 (CE)  Marketing I | Chemistry 1110 (CE) |

Designer Sewing II

CE= Concurrent Enrollment

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| **Hospitality Services** | **Interior Design** |
| Event Planner, FACS Teacher,  Hospitality Supervisor, Hotel/Motel Manager, Restaurant Manager, Tour Guide, Travel Agent | Architect, Display Designer,  Furniture Designer, Interior Designer, Photographer, Retail Manager, Set Designer |
| 10th, 11th, 12th  Food and Nutrition I Food and Nutrition II | 10th, 11th, 12th  Interior Design I Interior Design II |
| 11th, 12th  Travel and Tourism  Entrepreneurship (CE)  12th  Student Internship- Must take a preliminary course CWS online | 10th, 11th, 12th  Architectural Design I(CE) Architectural Design II (CE) Clothing I  Designer Sewing  Design and Visual Communication Photography  12th  Student Internship- Must take a preliminary course CWS online |
| Customer Service (CE) Marketing I Communications 2110 (CE) | Commercial Photography Communications 2110 (CE) Retail School Store (CE) Customer Service (CE) Marketing I |

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| **Pathway** | **Food Services and**  **Culinary Arts** |
| **Possible**  **Occupations** | Baker, Butcher, Caterer, Chef,  Chocolatier, FACS Teacher, Food Service Director, Food Service Manager, Food Stylist, Pastry Chef |
| **REQUIRED**  **Foundation**  **Courses** | 10th, 11th, 12th  Food and Nutrition I  Food and Nutrition II |
| **Highly**  **Recommended Elective Courses** | 11th, 12th  Travel and Tourism  Entrepreneurship (CE)  12th  Student Internship- Must take a preliminary course CWS online |
| **Support**  **Courses** | Design and Visual  Communication  Photography |

Students receive university credit while attending high school. Student must be a junior to receive university credit.

Information Technology Pathways

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| **Pathway** | **Programming/ Software Development** |
| **Possible**  **Occupations** | Computer Programmer, Computer Systems  Analyst, Game Programmer, Information  Technology Teacher, Software Engineer |
| **REQUIRED**  **Foundation**  **Courses** | 10th 11th, 12th  Computer Programming A Exploring Computer Science  11th, 12th  Computer Programming B (CE) |
| **Highly**  **Recommended Elective Courses** | 10th, 11th, 12th  Digital Media I  12th  Student Internship- Must take a preliminary course CWS online |
| **Support**  **Courses** | Entrepreneurship (CE)  Computer Technology II (CE) |

CE= Concurrent Enrollment

Students receive university credit while attending high school. Student must be a junior to receive university credit in this pathway.

Marketing Education Pathways

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| **Pathways** | **Marketing Entrepreneurship** | **Marketing Management** | **Sales and Service Marketing** | **Travel and Tourism** |
| **Possible**  **Occupations** | Inventor, Marketing Education  Teacher, Retail Owner/Operator, Sales and Service Owner, Web Developer, Venture Capitalist | Advertising Account  Executive, Advertising Production Manager, Brand Manager, Public Relations Account Executive | Merchandise Displayer, Purchasing Agent,  Purchasing Manager, Sales Development Coordinator, Wholesale Broker, Wholesale/ Retail Buyer | Concierge, Cruise Director, Event  Planner, Host/Hostess, Hotel Manager, Tour Guide, Travel Agent, Travel Clerk, Waiter/waitress |
| **REQUIRED**  **Foundation**  **Courses** | 10th, 11th, 12th  Marketing I  11th, 12th  Entrepreneurship (CE) | 10th, 11th, 12th  Marketing I | 10th, 11th, 12th  Marketing I  11th, 12th  Retail School Store (CE) | 10th, 11th, 12th  Marketing I  11th, 12th  Travel and Tourism (CE) |
| **Highly**  **Recommended Elective Courses** | 10th, 11th, 12th  Fashion Merchandising  Accounting I  Business Management  Business Law  11th, 12th  Customer Service (CE)  Fashion Merchandising Adv (CE) Leadership Principles (CE)  Retail School Store (CE) Sports and Entertainment Marketing Applied (CE)  Travel and Tourism  12th  Student Internship- Must take a preliminary course CWS online | 10th, 11th, 12th  Accounting I  Business Management  Business Law  Fashion Merchandising  11th, 12th  Customer Service (CE)  Entrepreneurship (CE) Fashion Merchandising Adv. (CE)  Leadership Principles (CE)  Retail School Store (CE) Sports and Entertainment Marketing Applied (CE) Travel and Tourism (CE)  12th  Student Internship- Must  take a preliminary course  CWS online | 10th, 11th, 12th  Fashion Merchandising  Accounting I  Business Management  Business Law  11th, 12th  Customer Service (CE)  Entrepreneurship (CE)  Fashion Merchandising Advances (CE) Leadership Principles (CE)  Retail School Store (CE)  Sports and Entertainment Marketing  Applied (CE)  Travel and Tourism  12th  Student Internship- Must take a  preliminary course CWS online | 10th, 11th, 12th  Fashion Merchandising  Accounting I  Business Management  Business Law  11th, 12th  Customer Service (CE)  Entrepreneurship (CE)  Fashion Merchandising Adv (CE) Leadership Principles (CE) Retailing School Store (CE)  12th  Student Internship- Must take a  preliminary course CWS online |
| **Support**  **Courses** | Communications 2110 (CE)  Accounting II  Computer Programming  Computer Technology II (CE) | Accounting II  Communications 2110 (CE) Computer Technology II (CE) | Commercial and Advertising Art  Designer Dewing I  Computer Technology II (CE) | Communications 2110 (CE)  Psychology 1010 (CE)  Sports and Entertainment Marketing  Applied (CE) |

Skilled and Technical Science Pathways

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| **Pathways** | **Communication**  **Television Broadcasting** | **Mechanics and Repairs**  **Automotive Service**  **Tech** | **Precision Production**  **Trades-Design**  **Technology** | **Precision Production**  **Trades—Welding** |
| **Possible**  **Occupations** | Audio/Video, Equipment Tech,  TV Broadcasting | Aircraft Mechanic  Technician, Automotive Service Technician, Auto Service Teacher, Mechanic, Motorboat Mechanic | Architectural Drafter, Civil  Engineering, Computer Aided Drafter, CAD Teacher, Interior Designer, Landscape Designer, Engineer | Agricultural Education  Teacher, Welder/Cutter, Welding Machine Operator, Welding Teacher |
| **REQUIRED**  **Foundation**  **Courses** | 10th, 11th, 12th  TV Broadcasting I TV Broadcasting II | 10th, 11th, 12th  Intro to Auto (CE)  ASE- Brakes, Steering and  Suspension, Electrical and Engine Performance (CE) Above may be taken in any order | 10th, 11th, 12th  Technical Design I (CE) Architectural Design I (CE)  11th, 12th  Architectural Design II (CE)  Technical Design II (CE) | 10th, 11th 12th  Welding A Welding B |
| **Highly**  **Recommended Elective Courses** | 10th, 11th. 12th  Computer Programming A Digital Media I  Design and Visual Communications Commercial and Advertising Art  Basic Digital Photography  12th  Student Internship- Must take a preliminary course CWS online | 10th, 11th. 12th  Small Vehicle Technician  12th  Student Internship- Must take a preliminary course CWS online | 10th, 11th, 12th  Introduction to Auto  Welding A  Design and Visual Communications Commercial and Advertising Art  Basic Photography  12th  Student Internship- Must take a preliminary course CWS online | 10th, 11th, 12th  Technical Design I (CE) Architectural Design I (CE) Welding Advanced  11th, 12th  Architectural Design II (CE) Technical Design II (CE)  12th  Student Internship- Must  take a preliminary course  CWS online |
| **Support**  **Courses** | Communications 2110 (CE) English 1010 (CE)  Computer Programming B (CE) | Communications 2110 (CE) Entrepreneurship (CE) Welding | Math 1010 and/or 1050 (CE) Interior Design  Computer Programming A Computer Program (CE) | Math 1010 and/or 1050 (CE) |

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| **Pathways** | **Personal Service—**  **Cosmetology/Barbering** | **Personal Service—**  **Esthetician/Nail Tech** | **Protective Services—**  **Law Enforcement** | **Visual Arts—**  **Commercial Art** | **Visual Arts—**  **Commercial Photography** |
| **Possible**  **Occupations** | Barber, Cosmetologist, Teacher | Manicurist, Teacher, Pedicurist, Esthetician, Skin Care Specialist | Correctional Officer, Deputy Sheriff, Law Enforcement Teacher, Police Detective and Criminal Investigator, Patrol Officer | Advertising Designer, Animations/Illustrator, Teacher, Commercial Designer, Fashion Artist, Graphic Designer, Painter/Illustrator, Photographer | Camera Operator Commercial Photo Teacher, Photographer |
| **REQUIRED**  **Foundation**  **Courses** | 11th, 12th  Cosmetology or Barbering at the OWATC | 11th, 12th  Nail Technician at the  OWATC | 11th, 12th  Law Enforcement or Criminal Justice (CE) Emergency Medical Responder (CE) | 10th, 11th, 12th  Design and Visual Communications Commercial and Advertising Art | 10th, 11th, 12th  Basic Digital Photography  Commercial Photography |
| **Highly**  **Recommended**  **Courses** | 10th, 11th, 12th  Entrepreneurship (CE) Business Management Accounting I Accounting II  11th, 12th  Nail Technician at the OWATC Personal Finance  12th  Student Internship- Must take a preliminary course CWS online | 10th, 11th, 12th  Entrepreneurship (CE) Business Management Accounting I Accounting II  11th, 12th  Cosmetology at OWATC Barbering at OWATC Personal Finance  12th  Student Internship- Must take a preliminary course CWS online | 10th, 11th, 12th  Video Productions Architectural Design I (CE)  Basic Digital  Photography  12th  Student Internship- Must take a preliminary course CWS online | 10th, 11th, 12th  Digital Media I Technical Design I (CE) Architectural Design I (CE) Basic Digital Photography  12th  Student Internship- Must take a preliminary course CWS online | 10th, 11th, 12th  Television Broadcasting I Digital Media I  Technical Design I (CE)  Design and Visual Communications Commercial and Advertising Art  12th  Student Internship- Must  take a preliminary course  CWS online |
| **Support**  **Courses** | Customer Service (CE)  Retail School Store (CE) | Customer Service (CE)  Design and Visual  Communication | Psychology 1010 (CE)  Communications 2110 (CE) | Technical Design II (CE)  Architectural Design II (CE) Commercial Photography Computer Technology II (CE)  Math 1050 (CE) | Communications 2110 (CE)  Customer Service (CE) Computer Technology II (CE) Math 1050 (CE) |

Technology and Engineering Pathway

CE= Concurrent Enrollment

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| **Pathway** | **Project Lead the Way**  **National Pre-Engineering**  **Program** |
| **Possible**  **Occupations** | Civil Engineer, Complex Analysis,  Complex Design, Development Manufacturing Research, Electrical Engineer, Mechanical Engineer, Technology and Engineering Teacher |
| **REQUIRED**  **Foundation**  **Courses** | Engineering Design- Introduction  Principles of Engineering Choose one of the following: Aerospace Engineering Digital Electronics  Engineering Design and Development  Civil Engineering and Architecture |
| **Highly**  **Recommended**  **Courses** | Physics  Calculus |
| **Support**  **Courses** | Welding  Communications 2110 (CE) |

Students receive university credit while attending high school. Student must be a junior to receive university credit in this pathway.

Agricultural Education Pathway

CE= Concurrent Enrollment

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| **Pathway** | **Production/Procession Animal Science** |
| **Possible**  **Occupations** | Ag Teacher, Animal Geneticist, Animal  Nutritionist, Animal Scientist, Aquaculturalist, Veterinarian, Veterinarian Technician |
| **REQUIRED**  **Foundation**  **Courses** | 11th, 12th  Animal Science I  12th  Veterinarian Assistant |
| **Highly**  **Recommended**  **Courses** | 10th, 11th, 12th  Biology Agricultural Animal Science  12th  Student Internship- Must take a preliminary  course CWS online |
| **Support**  **Courses** | Psychology 1010 (CE)  Communications 2110 (CE) Math 1050 (CE) |

Students receive university credit while attending high school. Student must be a junior to receive university credit in this pathway.