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 CreditsOR**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) PhysicsEnglish 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, AccountingClerk, Bookkeeper, Business Ed. Teacher, Loan Officer, Tax Examiner | Administrative Assistant,Business Teacher, Customer Service Assistant, Desktop Publishing Specialist, Office Mgr. | Inventor, RetailOwner/Operator, Sales and Service Owner, Wed Developer, Venture Capitalist | Business Consultant, BusinessManager, Chief Executive Officer, e-commerce Manager, Entrepreneur, PR Manager | Customer Service AssistantDesktop Publisher, Executive Assistant, Office Manager, Secretary, Web Page Master |
| **REQUIRED****Foundation****Courses** | 11th, 12thAccounting I Accounting II | 10th, 11th, 12thDigital BusinessApplications11th, 12thComputer Technology II(CE) | 10th, 11th, 12thBusiness LawMarketingBusiness Management11th, 12thEntrepreneurship (CE) | 11th, 12thBusiness ManagementBusiness LawDigital Business ApplicationsMarketing I | 10th, 11th, 12thDigital BusinessApplicationsBusiness Web Page Design11th, 12thComputer Technology II (CE) |
| **Highly****Recommended Elective Courses** | 10th , 11th, 12thBusiness Law,Business ManagementDigital Business ApplicationsMarketing I11th or 12th Entrepreneurship (CE) Computer Technology II (CE) Leadership Principles (CE)12thStudent Internship- Must take a preliminary course CWS online | 10th, 11th, 12thAccounting I Accounting II Business LawBusiness ManagementWeb Development 1A & 1BMarketing I11th, 12thLeadership Principles (CE)12thStudent Internship- Must take a preliminary course CWS online | 10th, 11th, 12thAccounting I Accounting IIWeb Page Development 1A&1BDigital Business ApplicationsSports Marketing & Applied11th, 12thComputer Technology II (CE)Customer Service (CE) Leadership Principles (CE)12thStudent Internship- Must take a preliminary course CWS online | 10th, 11th. 12thAccounting I Accounting IIWeb Development 1A & 1B11th, 12thComputer Technology II (CE) Customer Service (CE) Leadership Principles (CE) Entrepreneurship(CE)12thStudent Internship- Musttake a preliminary course CWSonline | 10th, 11th, 12thBusiness LawBusiness ManagementWeb Development 1A &1B Marketing I11th or 12thLeadership Principles (CE) Customer Service(CE)12thStudent Internship- Must take a preliminary course CWS online |
| **Support****Courses** | Retail School Store(CE)Customer Service (CE) Communications 2110 (CE) | Computer Programming AComputer Programming B (CE)Customer Service(CE)Communications 2110 (CE) | Travel and TourismCommunications 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, AccountingClerk, Auditor, Bookkeeper, Loan Officer, Tax Examiner, Tax Preparer |
| **REQUIRED Foundation Courses** | 10th, 11th, 12thAccounting IAccounting II |
| **Highly****Recommended Elective Courses** | 10th, 11th, 12thBusiness LawBusiness ManagementDigital Business ApplicationsMarketing I11th, 12th Entrepreneurship (CE) Computer Technology II (CE)12thStudent Internship- Musttake a preliminary courseCWS 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 ChildcareProgram, 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 CenterCoordinator, Community Service Director, Counseling Psychologist, Employment Counselor, Geriatric Service Worker, Marriage and Family Therapist | Fashion Designer, RetailSales, Retail Buyer, Tailor, Wholesale Buyer | Dietetic Technician,FACS Teacher, Dietician, Food Scientist, Food Technologist, Medical Dietician, Nutritionist |
| **REQUIRED****Foundation****Courses** | 10th, 11thChild DevelopmentEarly Childhood Education IA Food and Nutrition I | 10th, 11thAccounting I11th, 12thAdult Roles and FinancialResponsibilities (CE) | 10th, 11thChild DevelopmentFoods and Nutrition I11th, 12thAdult Roles and FinancialResponsibilities ( CE) | 10th, 11thClothing I Clothing IIFashion Strategies | 10th, 11thFood and Nutrition I Food and Nutrition II |
| **Highly****Recommended Elective Courses** | 10th, 11th, 12thFood and Nutrition IIEarly Childhood Education IB Accounting I11th, 12thHuman Development (CE) Foundations of Nutrition (CE) Early Childhood Education II Head Teacher12thEducation 1010 (CE)Student Internship- Must take a preliminary course CWS online | 11th, 12thCustomer Service (CE) Entrepreneurship (CE)12thStudent Internship- Must take a preliminary course CWS online | 10th, 11th, 12thFoods and Nutrition II11th, 12thFoundations of Nutrition (CE) Human Development (CE)12thStudent Internship- Must take a preliminary course CWS online | 10th, 11th, 12thFashion Merchandising I Designer Sewing IAccounting I11th, 12th Advertising and Promotions (CE) Entrepreneurship (CE) Fashion Academy (CE)12thStudent Internship- Must take a preliminary course CWS online | 10th 11th, 12thChild Development11th , 12thFoundations of Nutrition(CE)Human Development(CE)12thStudent Internship-Must take a preliminary course CWS online |
| **Support****Courses** | Psychology and APPsychology 1010 (CE)Communications 2110 (CE) Education 1010 (CE) Emergency Medical Response (CE) | Marketing IEducation 1010 (CE) | Psychology and APPsychology 1010(CE)Communications 2110 (CE) | Advanced FashionMerchandising (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, 12thFood and Nutrition I Food and Nutrition II | 10th, 11th, 12thInterior Design I Interior Design II |
| 11th, 12thTravel and TourismEntrepreneurship (CE)12thStudent Internship- Must take a preliminary course CWS online | 10th, 11th, 12thArchitectural Design I(CE) Architectural Design II (CE) Clothing IDesigner SewingDesign and Visual Communication Photography12thStudent 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, 12thFood and Nutrition IFood and Nutrition II |
| **Highly****Recommended Elective Courses** | 11th, 12thTravel and TourismEntrepreneurship (CE)12thStudent Internship- Must take a preliminary course CWS online |
| **Support****Courses** | Design and VisualCommunicationPhotography |

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 SystemsAnalyst, Game Programmer, InformationTechnology Teacher, Software Engineer |
| **REQUIRED****Foundation****Courses** | 10th 11th, 12thComputer Programming A Exploring Computer Science11th, 12thComputer Programming B (CE) |
| **Highly****Recommended Elective Courses** | 10th, 11th, 12thDigital Media I12thStudent 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 EducationTeacher, Retail Owner/Operator, Sales and Service Owner, Web Developer, Venture Capitalist | Advertising AccountExecutive, 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, EventPlanner, Host/Hostess, Hotel Manager, Tour Guide, Travel Agent, Travel Clerk, Waiter/waitress |
| **REQUIRED****Foundation****Courses** | 10th, 11th, 12thMarketing I11th, 12thEntrepreneurship (CE) | 10th, 11th, 12thMarketing I | 10th, 11th, 12thMarketing I11th, 12thRetail School Store (CE) | 10th, 11th, 12thMarketing I11th, 12thTravel and Tourism (CE) |
| **Highly****Recommended Elective Courses** | 10th, 11th, 12thFashion MerchandisingAccounting IBusiness ManagementBusiness Law11th, 12thCustomer Service (CE)Fashion Merchandising Adv (CE) Leadership Principles (CE)Retail School Store (CE) Sports and Entertainment Marketing Applied (CE)Travel and Tourism12thStudent Internship- Must take a preliminary course CWS online | 10th, 11th, 12thAccounting IBusiness ManagementBusiness LawFashion Merchandising11th, 12thCustomer 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)12thStudent Internship- Musttake a preliminary courseCWS online | 10th, 11th, 12thFashion MerchandisingAccounting IBusiness ManagementBusiness Law11th, 12thCustomer Service (CE)Entrepreneurship (CE)Fashion Merchandising Advances (CE) Leadership Principles (CE)Retail School Store (CE)Sports and Entertainment MarketingApplied (CE)Travel and Tourism12thStudent Internship- Must take apreliminary course CWS online | 10th, 11th, 12thFashion MerchandisingAccounting IBusiness ManagementBusiness Law11th, 12thCustomer Service (CE)Entrepreneurship (CE)Fashion Merchandising Adv (CE) Leadership Principles (CE) Retailing School Store (CE)12thStudent Internship- Must take apreliminary course CWS online |
| **Support****Courses** | Communications 2110 (CE)Accounting IIComputer ProgrammingComputer Technology II (CE) | Accounting IICommunications 2110 (CE) Computer Technology II (CE) | Commercial and Advertising ArtDesigner Dewing IComputer Technology II (CE) | Communications 2110 (CE)Psychology 1010 (CE)Sports and Entertainment MarketingApplied (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 MechanicTechnician, Automotive Service Technician, Auto Service Teacher, Mechanic, Motorboat Mechanic | Architectural Drafter, CivilEngineering, Computer Aided Drafter, CAD Teacher, Interior Designer, Landscape Designer, Engineer | Agricultural EducationTeacher, Welder/Cutter, Welding Machine Operator, Welding Teacher |
| **REQUIRED****Foundation****Courses** | 10th, 11th, 12thTV Broadcasting I TV Broadcasting II | 10th, 11th, 12thIntro to Auto (CE)ASE- Brakes, Steering andSuspension, Electrical and Engine Performance (CE) Above may be taken in any order | 10th, 11th, 12thTechnical Design I (CE) Architectural Design I (CE)11th, 12thArchitectural Design II (CE)Technical Design II (CE) | 10th, 11th 12thWelding A Welding B |
| **Highly****Recommended Elective Courses** | 10th, 11th. 12thComputer Programming A Digital Media IDesign and Visual Communications Commercial and Advertising ArtBasic Digital Photography12thStudent Internship- Must take a preliminary course CWS online | 10th, 11th. 12thSmall Vehicle Technician12thStudent Internship- Must take a preliminary course CWS online | 10th, 11th, 12thIntroduction to AutoWelding ADesign and Visual Communications Commercial and Advertising ArtBasic Photography12thStudent Internship- Must take a preliminary course CWS online | 10th, 11th, 12thTechnical Design I (CE) Architectural Design I (CE) Welding Advanced11th, 12thArchitectural Design II (CE) Technical Design II (CE)12thStudent Internship- Musttake a preliminary courseCWS 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 DesignComputer 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, 12thCosmetology or Barbering at the OWATC | 11th, 12thNail Technician at theOWATC | 11th, 12thLaw Enforcement or Criminal Justice (CE) Emergency Medical Responder (CE) | 10th, 11th, 12thDesign and Visual Communications Commercial and Advertising Art | 10th, 11th, 12thBasic Digital PhotographyCommercial Photography |
| **Highly****Recommended****Courses** | 10th, 11th, 12thEntrepreneurship (CE) Business Management Accounting I Accounting II11th, 12thNail Technician at the OWATC Personal Finance12thStudent Internship- Must take a preliminary course CWS online | 10th, 11th, 12thEntrepreneurship (CE) Business Management Accounting I Accounting II11th, 12thCosmetology at OWATC Barbering at OWATC Personal Finance12thStudent Internship- Must take a preliminary course CWS online | 10th, 11th, 12thVideo Productions Architectural Design I (CE)Basic DigitalPhotography12thStudent Internship- Must take a preliminary course CWS online | 10th, 11th, 12thDigital Media I Technical Design I (CE) Architectural Design I (CE) Basic Digital Photography12thStudent Internship- Must take a preliminary course CWS online | 10th, 11th, 12thTelevision Broadcasting I Digital Media ITechnical Design I (CE)Design and Visual Communications Commercial and Advertising Art12thStudent Internship- Musttake a preliminary courseCWS online |
| **Support****Courses** | Customer Service (CE)Retail School Store (CE) | Customer Service (CE)Design and VisualCommunication | 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- IntroductionPrinciples of Engineering Choose one of the following: Aerospace Engineering Digital ElectronicsEngineering Design and DevelopmentCivil Engineering and Architecture |
| **Highly****Recommended****Courses** | PhysicsCalculus |
| **Support****Courses** | WeldingCommunications 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, AnimalNutritionist, Animal Scientist, Aquaculturalist, Veterinarian, Veterinarian Technician |
| **REQUIRED****Foundation****Courses** | 11th, 12thAnimal Science I12thVeterinarian Assistant |
| **Highly****Recommended****Courses** | 10th, 11th, 12thBiology Agricultural Animal Science12thStudent Internship- Must take a preliminarycourse 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.