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| **Administrative and Professional Support** as of September 6, 2016 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTAPS001 Office Procedures3 Semester Hours | 142005 Office Management | Affirmation |  |

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| **Agriculture and Environmental Systems (Various dates by pathway)** |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission**  | **College Course** |
| Agribusiness and Production SystemsAs of September 19, 2016  | CTAGP001 Crop Production3 semester hours | 010620 – Agronomic Systems | Full Submission |  |
| CTAGP002 Soil Fertility and Fertilizers3 semester hours | 010610 - Greenhouse and Nursery Management | Affirmation |  |
| CTAGP003 Agribusiness Management3 semester hours | 010115 – Business Management for Agriculture and Environmental Systems | Affirmation |  |
| Agriculture and Industrial EquipmentFebruary 27, 2017  | CTAIE001 – Hydraulics and Pneumatics Systems2 semester hours | 010225 – Hydraulics and Pneumatics | Full Faculty Review |  |
| Animal Science and ManagementFebruary 6, 2017 | CTASM001 Introduction to Animal Science, 3 semester hours | 010910 Animal Science and Technology | Affirmation |  |
|  | Introduction to Animal Science Lab | 010920 Livestock Selection | No submission available |  |
| Biotechnology for Food, Plant and Animal ScienceNovember 16, 2016 | CTBTC001 - Biotechnology Principals3 semester hours | 012010 Animal and Plant Bioresearch | Affirmation Form |  |
| CTBTC002 – Bioinformatics3 semester hours | 012025 Bioresearch | Affirmation Form |  |
| Food ScienceDec. 9, 2016  | CTFSC001- Introduction to Food Processing3 Semester Hours | 011010 – Science and Technology of Food | Affirmation  |  |
| HorticultureOctober 18, 2016 | CTHOR001 Floral Design and Marketing3 semester hours | 010625 Floral Design and Marketing | Full ReviewUntilWebXam |  |
| CTHR002 Landscape Maintenance3 semester hours | 010640 Landscape Hardscapes | Affirmation Form |  |
| CTHOR003 Equipment Operations and Maintenance3 semester hours | 010615 Landscape Systems Management | Full Review Until WebXAm |  |
| CTHOR004 Plant and Horticulture Science3 Semester Hours | 010155 Plant and Horticulture Science | Full Review Until WebXAm |  |
| CTHOR005 Turf-Grass Management3 Semester Hours  | 010635 Turf Science and Management  | Full Review Until WebXAm |  |
| Industrial Power TechnologyFebruary 27, 2017 | CTAIE001 Hydraulics and Pneumatics Systems2 Semester Hours | 010225 Hydraulics and Pneumatics“C” Grade or better for CTAN credit | Full Review until WebXam |  |
| Natural Resource ManagementAs of September 27, 2016 | CTNRM001 - Environmental Science3 semester hours | 010720 Environmental Science | Full  |  |
| CTNRM002 - Field Botany3 semester hours | 010710 Natural Resources | Affirmation  |  |
| CTNRM003 - Field Zoology3 semester hours  | 010745 Wildlife and Fisheries | Affirmation |  |

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| **Air Transportation** as of December 7, 2015 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTAIR001 Air Transportation3 semester hours | 177020 Aviation Airport Management | Full |  |
|  | CTAIR002 Aircraft Ground Operations3 semester hours | 177014 Aviation Maintenance General | Affirmation |  |
|  | CTAIR003 Aviation Meteorology3 semester hours | 177019 Aviation Meteorology | Full |  |
|  | CTAIR004 Introduction to Aviation3 semester hours | 177013 Aviation | Full |  |
|  | CTAIR005 Private Pilot Theory3 semester hours | 177021 Aviation Pilot Training | Full |  |

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| **Automotive Technology (ASE/NATEF required)** as of February 12, 2105 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
| Automotive | CTAUT005 Introduction to Automotive Service & Repair2 semester hours | 177000 Ground Transportation Maintenance | Fullw/NATEF |  |
| Medium and Heavy Transportation | CTAUT006 Introduction to Medium and Heavy Transportation Equipment Technology2 semester hours | 171200 Medium/Heavy Truck Technician | Fullw/NATEF |  |

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| **Clinical/Medical Laboratory Technology** as of December 7, 2015 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTMLT001 Introduction to Medical (Clinical) Laboratory Science2 to 3 semester hours | 072100 Clinical Laboratory Techniques | Full |  |

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| **Construction Technology** as of February 23, 2016 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTCON001 Plan Reading3 Semester Hours | 178019 Plan Reading | Affirmation |  |
|  | CTCON002 Construction Safety3 Semester Hours | 178018 Construction Safety  | Full |  |
|  | CTCON003 Construction Methods and Materials3 Semester Hours | 178001 Carpentry and Masonry Technical Skills | Affirmation |  |

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| **Criminal Justice** as of January 16, 2015 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTCJ001 Introduction to Criminal Justice – 3 sem. Hours | 170911 The American Criminal Justice System170913 Police Work and Practice in Public Safety170915 The Correctional System and Services**All 3 secondary courses are required to meet this CTAN** | Affirmation |  |

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| **Culinary Arts is now under Hospitality, Tourism and Culinary Arts (See Hospitality later in crosswalk)** **Culinary and Food Services Management** as of June 8, 2017 |

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| **Early Childhood Education** as of June 19, 2017 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTECE001 Introduction to Early Childhood Education Development3 semester hours  | 3502025 Early Childhood Development Principals“C” or better on ODE Course | Full Review until WebXam  |  |
|  | CTECE002 Health, Safety, and Nutrition2 Semester Hours | 350230 Health Safety, and Nutrition “C” or better on ODE Course | Full Review until WebXam |  |
|  | CTECE003 Infant and Toddler Curriculum3 Semester Hours | 350210 Infant and Toddler Education“C” or better on ODE Course | Full Review until WebXam |  |

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| **Education** revised June 26, 2017 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | ~~CTED001 – Introduction to Education 2- 3 Semester~~ | ~~No course match at this time~~ | ~~Full~~  |  |
| Note: This is a TAG and CTAG | CTEDU007/OED007 Introduction to Education 3 Semester Hours | 350010 Introduction to Education“C” or better on ODE Course Portfolio required  | Full Faculty Review by TAG panelWebXam forthcoming |  |

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| **Electrical Engineering Technology** as of June 22, 2015 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
| Note: This is a TAG and CTAG | CTEET001 – DC Circuits (shared with OAN OET001)3 semester hours | 1755011 DC and AC Electronic Circuitsor175002 Engineering PrincipalsandIn some cases 175004 Robotics**OTC** – approved Electronics (CT)2 program  | Full |  |
|  | CTEET002 – Digital Electronics (shared OAN OET002)4 semester hours | 175007 Digital Electronics | Full |  |
|  | CTEET003 Programmable Logic Controls3 semester hours | 175004 Robotics**OTC** – approved Electronics (CT)2 program  | Full |  |
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| **Emergency Medical Services** as of October 23, 2014 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
| EMR | CTEMS001 Emergency Medical Responder2 semester hours | No course match at this time | Full |  |
| EMT | CTEMS002 Emergency Medical Technician7 semester hours | No course match at this time | Full |  |
| Advanced EMT | CTEMS003 Advanced Emergency Medical Technician8 semester hours | No course match at this time | Full |  |
| Paramedic  | CTEMS004 Paramedic30 semester hours | No course match at this time | Full |  |

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| **Entrepreneurship** as of November 16, 2015 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTENTR001 Introduction to Entrepreneurship3 semester hours | 141030 Strategic Entrepreneurship | Affirmation |  |

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| **Exercise Science** as of December 7, 2015 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTES001 Introduction to Exercise Science 3 semester hours | 072000 Exercise and Athletic Training | Full |  |
|  | CTES002 Fitness and Health Foundations 3 semester hours | 072020 Fitness Evaluation and Assessment | Full |  |

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| **Fire Science Technology** dates vary by course |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
| Fire Fighter IOctober 23, 2014 | CTFF002 Firefighter I7 semester hours | No Course match at this time | ReferenceODHE Website |  |
| Fire Fighter IIOctober 23, 2014  | CTFF003 Career Firefighter I and II – 11 semester hours | No course match at this time | ReferenceODHE Website |  |
| Volunteer Fire FighterOctober 17, 2008 | CTVFF001 Volunteer Fire FighterNo semester hours listed | No course match at this time | ReferenceODHE Website |  |
| Fire Safety InspectorOctober 17, 2008 | CTFINSP001 Fire Safety Inspector 3 semester hours | No course match at this time | ReferenceODHE Website |  |
| Fire Service InspectorMarch 17, 2011 | CTFSI001 Fire Service Inspector3 semester hours | No course match at this time | ReferenceODHE Website |  |

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| **Food Science** as of December 9, 2016 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
| See Agriculture Pathway  | CTFSC001 Introduction to Food Processing3 Semester Hours  | 011010 Science and Technology of Food | Affirmation |  |

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| **Health Information Management** as of February 20, 2015 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTHIM001 Introduction to Health Information Management3 semester hours | 072135 Health Information Technology | Full |  |
|  | CTHIM002 Legal and Ethical Aspects of Health Information Management(shared OAN OHL021)2 semester hours | 072140 Health Information Management | Full  |  |

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| **Hospitality, Tourism and Culinary Arts** as of June 8, 2017 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTCF001 Sanitation and Safety2 sem. credit. | 330000 Hospitality Fundamentals | Full w/ServSafe |  |
|  | CTCF002 Introduction to Hospitality and Tourism2 sem. Hours. | 330000 Hospitality Fundamentals“C” or better on ODE Course | Full review until WebXam  |  |
|  | CTCF005 Basic Food Production4 Semester Hours | 330100 Fundamentals of Food Production“C” or better on ODE Course | American Culinary Federation (ACF) Certificate or Full review until WebXam |  |
|  | CTCF006 Front Office Operations2 Semester HoursNote: This is not for Secondary Institutions they must submit CTCF008 for this CTAN  | 330030 Front office and Management Operations | Full Review |  |
|  | CTCF007 Technology in the Hospitality Industry2 Semester hours | 330035 Hospitality Management “C” or better on ODE Course | Full Review until WebXam |  |
|  | CTCF008 Front Office Operations AND Housekeeping Operations for the Lodging Industry3 semester hours Secondary Institutions should submit for this CTAN and not CTCF006 | 330030 Front Office Management and Operations “C” or better on ODE Course | Full Review until WebXam |  |
|  | CTCF009 Food Principles and Purchasing3 Semester hours  | 330120 Restaurant Management“C” or better on ODE Course | Full Review until WebXam |  |

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| **HVAC/R Technology** |
| **HVAC/R Technology - Currently Under Revision. Please do not make submissions at this time.** |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | ~~HVACI001 Heating Ventilation and Air Conditioning/Refrigeration~~~~22 semester hours~~ | ~~No course matches at this time~~ | Do NOT submit  |  |
| **HVAC/R Technology - Currently Under Revision. Please do not make submissions at this time.** |

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| **Industrial Power Technology** February 27, 2017 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
| See Agriculture Pathways  | CTAIE001 Hydraulics and Pneumatics Systems2 Semester Hours | 010225 Hydraulics and Pneumatics “C” Grade or better to earn CTAN | Full Review until WebXam |  |

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| **Information Support Services/Network Systems** as of May 5, 2016**Reference ODHE Website for more specifics for each course’s requirements** |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTIT002 Networking/COMP TIA Network +3 semester hours | 145035 Networking **and** 145045 Network Management | Affirmation |  |
|  | CTIT005 Introduction to Desktop Operating Systems3 semester hours | 145030 Computer Software | Affirmation |  |
| **Submit either this CTAN or CTIT015 Not both (see below)** | CTIT006 Introduction to User Support3 semester hours | 145050 Network Security | Affirmation  |  |
|  | CTIT007 Cisco I: CCNA 1—Introduction to Networks3 semester hours | Follow Cisco curriculum standards and course requirements and submit proof of Cisco curriculum to the CEMS(see ODHE Website for more specifics) | Fullw/CISCO |  |
|  | CTIT008 Cisco II: CCNA 2—Routing and Switching Essentials 3 semester hours | Follow Cisco curriculum standards and course requirements and submit proof of Cisco curriculum to the CEMS(see ODHE Website for more specifics) | Fullw/CISCO |  |
|  | CTIT009 Cisco III: CCNA 3—Scaling Networks 3 semester hours | Follow Cisco curriculum standards and course requirements and submit proof of Cisco curriculum to the CEMS(see ODHE Website for more specifics) | Fullw/CISCO |  |
|  | CTIT010 Cisco IV: CCNA 4—Connecting Networks3 semester hours | Follow Cisco curriculum standards and course requirements and submit proof of Cisco curriculum to the CEMS(see ODHE Website for more specifics) | Fullw/CISCO |  |
|  | CTIT011 Microsoft Windows Desktop Operating System3 semester hours | 145030 Computer Software**and**145040 Network Operating Systems | Affirmation |  |
| **Submit either this CTAN or CTIT016 Not both (see below)** | CTIT013 Microsoft Server Administration3 semester hours | 145040 Network Operating Systems | Affirmation |  |
|  | CTIT014 PC Operating System, Hardware Operation and Maintenance/A+ 3 semester hours | 145025 Computer Hardware **and**145030 Computer Software | Affirmation |  |
| **Submit either this CTAN or CTIT006 Not both (see above)** | CTIT015 CompTIA Security +3 semester hours | 145050 Network Security | Affirmation |  |
| **Submit either this CTAN or CTIT013 Not both (see above)**  | CTIT016 Linux3 semester hours | 145040 Network Operating Systems | Affirmation |  |
| **Please reference additional notes for these CTANS on ODHE’s website at:** [**https://www.ohiohighered.org/transfer/ct2/ctags**](https://www.ohiohighered.org/transfer/ct2/ctags) |

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| **Interactive Media Technology** as of February 20,2**015**  |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTIM001 2D Animation3 semester hours | 145115 Animation | Affirmation |  |
|  | CTIM002 Raster Graphics3 semester hours | 145100 Creating and Editing | Affirmation |  |
|  | CTIM003 Vector Graphics3 semester hours | 145105 Multimedia and Image Management Techniques | Affirmation |  |
|  | CTIM004 Internet and Web Languages3 semester hours | 145010 Web Design | Affirmation |  |
|  | CTIM005 Graphical Website3 semester hours | 145125 Interactive Application Development | Affirmation |  |
|  | CTIM006 Digital Video Production3 semester hours | 145110 Video and Sound | Affirmation |  |
|  | CTIM007 3D Modeling and Animation3 semester hours | 145120 3D Design | Affirmation |  |
|  | CTIM008 Electronic Publishing3 semester hours | 145095 Design Techniques | Affirmation |  |

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|  | **Mechanical Engineering Technology** as of April 28, 2008 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTMET004 Manufacturing Processes (shared OAN OET010)3 semester hours | 175003 Manufacturing Operations | Full |  |
|  | CTMET005 Computer Aided Drafting CADD (share OAN OET012)3 semester hours | 175001 Engineering Design | Full |  |
|  |  | *NOTE: CTE Adult Ed 170006 Manufacturing Technologies and CTE Adult Ed 172303 Manufacturing Operations* |  |  |

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| **Media Arts** as of June 1, 2016 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTMDA001 Introduction to Digital Media Arts and Media Design 3 semester hours | 340325 Digital Media Art | Full |  |
|  | CTMDA002 Introduction to Audio Production (OAN OCM007)3 semester hours | 340130 Audio Broadcast | Affirmation |  |
|  | CTMDA003 Introduction to Single Camera Video Production (OAN OCM008)3 semester hours | 340145 Video Production | Affirmation |  |
|  | CTMDA004 Multi-Media Production for the Web3 semester hours | 340160 Multi-Media Web Production  | Affirmation |  |

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| **Medical Assistant Technology reaffirmed June 12, 2013**  |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTMAT004 Perform Basic Administrative Medical Assisting Functions1 semester hour | No course matches at this time | Full  |  |
|  | CTMAT005 Perform Bookkeeping Functions2 semester hours | No course matches at this time | Full |  |
|  | CTMAT006 Process Insurance Claims3 semester hours | No course matches at this time | Full |  |
|  | CTMAT008 Fundamental Procedures3 semester hours | No course matches at this time | Full |  |
|  | CTMAT009 Specimen Collection2 semester hours | No course matches at this time | Full  |  |
|  | CTMAT010 Diagnostic Testing2 semester hours | No course matches at this time | Full  |  |
|  | CTMAT011 Patient Care5 semester hours | No course matches at this time | Full  |  |

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| **Medical Management and Support** as of September 7, 2016 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTMMS001 Medical Office Procedures3 Semester Hours | 142015 Medical Office Management | Affirmation |  |
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| **Medical Terminology** as of Dec 7, 2015 (or Feb. 5, 2015?) |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
| This is a TAG and CTAG course | CTMT001 Medical Terminology (shared OAN OHL020)3 semester hours | 072150 Medical Terminology“C” or better for credit | Full |  |

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| **Nursing – Practical Nursing to Associate Degree** as of March 27, 2008 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTNUR001 – Practical Nurse Technical Learning Outcomes30% of the nursing technical Degree | No secondary matches at this time | Full |  |

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| **Natural Resource Management** as of September 27, 2016 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
| See Agriculture Pathway | CTNRM001 Environmental Science3 Semester Hours | 010720 Environmental Science for Agriculture and Natural Resources  | Full Review until WebXAm |  |
| CTNRM002 Field Botany3 Semester Hours | 010710 Natural Resources | Affirmation |  |
| CTNRM003 Field Zoology3 Semester Hours | 010745 Wildlife and Fisheries | Affirmation |  |

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| **OSHA 10 Hour Safety** as of August 9, 2012 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTS001 SafetyFollow OSHA 10 General Safety Card1 semester hour |  | Full |  |

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| **Performing Arts** as of July 15, 2016 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTPAT001 Stagecraft OAN OAH0283 semester hours | 340250 Stagecraft | Affirmation |  |
|  | CTPAT002 Dance Performance Practicum1-3 semester hours | 340220 Choreography | Full |  |

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| **Pharmacy Technician** as of August 26, 2012 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTPT001 Introduction to Pharmacy Technician5 semester hours | No course matches at this time | Full |  |
|  | CTPT002 Pharmacy Concepts5 semester hours | No course matches at this time | Full  |  |
|  | CTPT003 Pharmacy Laboratory/Clinical Experience3 semester hors | No course matches at this time | Full |  |

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| **Police Office Training – Basic** |
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| **Police Officer Training (Basic) - Currently Under Revision. Please do not make submissions at this time.** |

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| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | ~~OPBTI001 Ohio Peace Officer Basic Training~~~~16 semester hours~~ | ~~No secondary equivalent~~ | Do NOT submit  |  |
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| **Police Officer Training (Basic) - Currently Under Revision. Please do not make submissions at this time.** |

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| **Phlebotomy** as of August 29, 2012 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTP001 Phlebotomy3 semester hours | No course matches at this time | Full  |  |

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| **Programming** as of March 25, 2016  |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTPROG001 Computer Logic3 semester hours | 145060 Programming  | Affirmation |  |
|  | CTPROG002 Java Programming 3 semester hours  | 145065 Object Oriented Programming  | Affirmation  |  |
|  | CTPROG003 C++ Programming3 semester hours | Make a CEMS course submission Or 145065 Object Oriented Programming with Java or C++ Programming language—Course 145065 can only be used for one CTAN (CTPROG002 or CTPROG003) | Affirmation  |  |
|  | CTIT012 Microsoft .NET Fundamentals3 Semester Hours  | 145070 Visual Programming  | Affirmation  |  |

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| **Renewable Energy** as of ~~August 9, 2012~~ updated November 16, 2016 |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTAE001/ORE001 - Introduction to Alternative and Renewable Energy3 semester hours | 010715 Energy Systems Management(Per Rob Speckert)PTLW – Fuel Cells | Affirmation (was full)  |  |
| **Institutions must choose to submit for either this CTAN or CTSP001 but not for both**  | CTAE002/ORE005 – Wind Energy3 semester hours  | 010717 – Solar and Wind Energy | Full  |  |
| **Institutions must choose to submit for either this CTAN or CTAE002 but not for both** | CTSP001 Solar Photovoltaic3 semester hours | 010717 – Solar and Wind Energy  | Full |  |

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| **Supply Chain Management** as of January 28, 2016  |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTSCM001 Introduction to Supply Chain Management3 semester hours | 142025 Supply Chain Management Technology | Full |  |
|  | CTSCM002 Logistics and Transportation3 semester hours | 142030 Logistics Management | Full |  |
|  | CTSCM003 Purchasing, Sourcing and Supplier Management3 semester hours | 142020 Operations Management | Full |  |
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| **Visual Design and Imaging** as of March 24, 2016  |
| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | CTVDI001 Design and Typography Fundamentals3 semester hours | 340315 Visual Creation or 340320 Digital Print Design | Affirmation |  |
|  | CTVDI002 Fundamentals of Advertising and Communications 3 semester hours | 340340 Advertising and Communication | Affirmation |  |
|  | CTVDI003 Beginning Digital Image Editing3 semester hours | 340120 Digital Image Editing | Affirmation |  |
|  | CTVDI004 Fundamentals of Illustration and Layout3 semester hours | 340330 Visual Distribution | Affirmation  |  |

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| **Welding**  |
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| **Welding - Currently Under Revision. Please do not make submissions at this time.** |

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| **Pathway Name** | **CTAN Course** | **ODE Course** | **Submission** | **College Course** |
|  | ~~CTW001 TIG (GTAW) Plate Welding~~~~3 semester hours~~ | ~~No course matches at this time~~ | Do NOT Submit |  |
|  | ~~CTW002 TIG (GTAW) Pipe Welding~~~~3 semester hours~~ | ~~No course matches at this time~~ | Do NOT Submit |  |
|  | ~~CTW003 SMAW Plate Welding~~~~3 semester hours~~ | ~~No course matches at this time~~ | Do NOT Submit |  |
|  | ~~CTW004 SMAW Pipe Welding~~~~3 semester hours~~ | ~~No course matches at this time~~ | Do NOT Submit |  |
|  | ~~CTW005 GMAW Plate Welding~~~~3 semester hours~~ | ~~No course matches at this time~~ | Do NOT Submit |  |
|  | ~~CTW005 GMAW Pipe Welding~~~~3 semester hours~~ | ~~No course matches at this time~~ | Do NOT Submit |  |
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| **Welding - Currently Under Revision. Please do not make submissions at this time.** |

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| **Ohio Department of Education Course Code** | **PLTW Course Title** |
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| **175015 Pre-Engineering** | **GTT – Gateway to Technology** |
| **175001 Engineering Design** | **IED – Introduction to Engineering Design** |
| **175002 Engineering Principles** | **POE – Principles of Engineering** |
| **175004 Robotics** |  |
| **177013 Aviation1** | **AE – Aerospace Engineering** |
| **175006 Computer Integrated Manufacturing (CIM)** | **CIM – Computer Integrated Manufacturing** |
| **175007 Digital Electronics** | **DE- Digital Electronics** |
| **175009 Capstone (Engineering)** | **EDD – Engineering Design and Development (Capstone)** |
| **178020 Architecture Design – Structural** | **CEA – Civil Engineering & Architecture** |
| **10715 Energy Systems Management** | **Fuel Cell Technology** |
| **1 Course from Transportation Pathway** |  |
| **Biomedical Alignment** |  |
| **Ohio Department of Education Course Code** | **PLTW Course Title** |
|  **072130 Genetics of Disease**  | **MI – Medical Interventions** |
| **072125 Biotechnology for Health and Disease**  | **BI – Biomedical Innovation (Capstone)** |
| **072110 Principles/Practices of Biomedical Technology**  | **PBS – Principles of Biomedical Sciences** |
|  **072040 Human Anatomy and Physiology** | **HBS – Human Body Systems** |