

| <b>CTE Authorization Crosswalk</b><br>Updated 10/29/24 |   |  |  |  |                           |  |
|--|---|--|--|--|---------------------------|--|
| <b>CTE Authorization - Career Cluster Areas</b>        | <b>CIP codes (Classification of Instructional Programs)</b> | <b>Content Area</b>                    | <b>Endorsement Name</b>                | <b>What can they teach? - SCED codes</b>   | <b>Endorsement Number</b> | <b>Skillset. What type of experience are we looking for?</b>   |
| Agriculture: Food and Natural Resources                | 01.0101, 01.0000  | Agribusiness                           | 5-12 Agri-business                     | 18001, 18002, 18003, 18004, 18005, 18051, 18052, 18053, 18053, 18054, 18055, 18056, 18097, 18098, 18101, 18102, 18103, 18104, 18105, 18106, 18147, 18148, 18149, 18205, 18247, 18248, 18249, 18301, 18302, 18303, 18304, 18305, 18306, 18307, 18308, 18309, 18310, 18311, 18347, 18348, 18349, 18401, 18402, 18403, 18404, 18405, 18406, 18447, 18448, 18501, 18502, 18504, 18505, 18506, 18547, 18548, 18901, 19902, 18903, 18995, 18996, 18997 | #300                      | many other codes under #962, Experience running an Agri. related Business.                                   |
| Agriculture: Food and Natural Resources                | 01.0201   | Power Structure- Ag. Mechanics         | 5-12 Small Engine Repair, 5-12 Welding | 20109, 20110, 20111, 20401, 20402, 20403, 20404, 20405   | #387 or 368, 300          | small tractor, lawn mower or motor bike repair & maintenance   |
| Agriculture: Food and Natural Resources                | 01.1101/01.060  | Plant Systems                          | 5-12 Horticulture                      | 18052, 18053, 18044, 18055, 18056, 18097, 18098, 18099   | #384                      | crop production  |
| Agriculture: Food and Natural Resources                | 01.0901   | Crop and Animal Production             | 5-12 Production Ag                     | 18301, 18302, 18303, 18304, 18305,   | #383                      | Animal or crop production  |
| Agriculture: Food and Natural Resources                | 01.0901   | Animal Systems                         | 5-12 Animal Systems                    |  | #341 or 347               | Animal production, or management of animal confinement   |
| Agriculture: Food and Natural Resources                | 01.0901   | Veterinarian Occupations               | 5-12 Veterinarian Technology           | 18102, 18103, 18104, 18105   | #347 or 300               | care of animals, Vet or Vet. assistant employment  |
| Agriculture: Food and Natural Resources                | 01.0303   | Aquaculture                            | 5- 12 Aquarium Science                 |  | #341                      | Fish or sea life production or care  |
| Agriculture: Food and Natural Resources                | 3.0103  | Natural Resource/Environmental Systems | 5-12 Environmental Systems             | none   | #330                      | Set aside acre maintenance, or watershed development   |
| Architecture, Construction, Manufacturing              | 46.0000   | Building Trades                        | 5-12 Building Trades,                  | 17001, 17002, 17003, 17004, 17005, 17008, 17047, 17048, 17049, 17901, 17902, 17995, 17997, 17998, 17999,   | #370                      | general construction   |
| Architecture, Construction, Manufacturing              | 46.0000   | Building Trades                        | 5-12 Carpentry                         | 17001, 17002, 17003, 17004, 17005, 17047, 17048, 17049,  | #372                      | Framing, shed or furniture construction  |
| Architecture, Construction, Manufacturing              | 46.0000   | Drywalling/Painting                    | 5-12 Drywalling/Painting               | 17011,   | #321                      | drywall installation, mudding, texturing or painting   |
| Architecture, Construction, Manufacturing              | 46.0000   | Masonry                                | 5-12 Masonry                           | 17008,   | #351                      | cement installation or brick work  |
| Architecture, Construction, Manufacturing              | 46.0000   | Cabinet making                         | 5-12 Cabinet Making                    | 17006, 17007,  | #379                      | building or assembling cabinets  |
| Architecture, Construction, Manufacturing              | 46.0000   | Electrical                             | 5-12 Electricity                       | 17101, 17102, 17103, 17104, 17105, 17105, 17108, 17109, 17149,   | #377                      | residential or commercial wiring and electrical supply connections, power supply i.e. generator installation |
| Architecture, Construction, Manufacturing              | 46.0000   | Electrical                             | 5-12 Electrical Engineering            | 17101, 17102, 17103, 17104, 17106, 17106, 17108, 17109, 17110, 17111, 17112, 14147, 17148, 17149   | #338, or 326              | basic electrical wiring, power supply, analog & electrical engineering                                       |
| Architecture, Construction, Manufacturing              | 46.0000   | HVAC                                   | 5-12 Refrigeration/Air Conditioning    | 17051, 17052, 17053, 17054, 17055, 17056, 17057, 17059   | #362                      | HVAC work or small appliance installation, cooler/freezer installation                                       |
| Architecture, Construction, Manufacturing              | 46.0000   | Plumbing                               | 5-12 Plumbing                          | 17051, 17052, 17053, 17054, 17055, 17056, 17057, 17059   | #362                      | general plumbing, pipe fitting, steam power installation   |
| Architecture, Construction, Manufacturing              | 46.0000   | maintenance                            | 5-12 Building and Home Maintenance     | 17009,   | #342                      | general maintenance of commercial bldgs or homes   |
| Architecture, Construction, Manufacturing              | 15.1301   | Drafting                               | 5-12 Drafting - Architectural,         | 21001, 21002, 21003, 21004, 21005, 21006, 21007, 21017, 21018, 21021, 21049, 21056, 21101, 21102, 21103, 21104, 21105, 21106, 21107, 21108, 21147, 21148, 21149  | #356                      | Blueprint writing or reading, design of roads, bridges, water systems or buildings                           |
| Architecture, Construction, Manufacturing              | 15.1301   | Drafting                               | 5-12 Drafting - Machine                | 21001, 21002, 21003, 21004, 21005, 21006, 21007, 21017, 21018, 21021, 21049, 21056, 21101, 21102, 21103, 21104, 21105, 21106, 21107, 21108, 21147, 21148, 21149  | #355                      | Graphic schematics/blueprints, CNC programming, factoring machining, tool & die assembly and production      |
| Architecture, Construction, Manufacturing              | 15.1301   | CAD                                    | 5-12 Drafting                          | 21001, 21002, 21003, 21004, 21005, 21006, 21007, 21017, 21018, 21021, 21049, 21056, 21101, 21102, 21103, 21104, 21105, 21106, 21107, 21108, 21147, 21148, 21149  | #354                      | general blueprint reading and use  |
| Architecture, Construction, Manufacturing              | 15.1301   | Metals and Tool and Die                | 5-12 Machine Shop                      | 21001, 21002, 21003, 21004, 21005, 21006, 21007, 21017, 21018, 21021, 21049, 21056, 21101, 21102, 21103, 21104, 21105, 21106, 21107, 21108, 21147, 21148, 21149  | #371                      | CNC work, metal working & assembly for factories, tool & die assembly and production                         |
| Architecture, Construction, Manufacturing              | 48.0508   | Welding                                | 5-12 Welding                           | 13207, 13208   | #368                      | Arc welding and soldering  |
| Architecture, Construction, Manufacturing              | 15.1301   | Computer Aided Drafting                | 5-12 Drafting - Machine                | 21001, 21002, 21003, 21004, 21005, 21006, 21007, 21017, 21018, 21021, 21049, 21056, 21101, 21102, 21103, 21104, 21105, 21106, 21107, 21108, 21147, 21148, 21149  | #355                      | CAD, CNC, tool & die assembly and production   |
| Architecture, Construction, Manufacturing              |   | Logistics & Inventory Control          | 5-12 Logistics & Inventory Control     | none   | #329                      | many other codes under #962 warehouse manager, inventory control & distribution of products                  |
| Transportation   | 47.0604   | Automotive Repair                      | 5-12 Auto Mechanics                    | 20103, 20104, 20105, 20106, 20119, 20120,  | #373                      | Auto engine maintenance & repair   |
| Transportation   | 47.0603   | Auto body repair                       | 5-12 Auto Body Repair                  | 20115, 20116, 20117, 20118   | #366                      | Auto/boat body repair  |
| Transportation   | 47.0605   | Diesel Repair                          | 5-12 Diesel Mechanics                  | 20107, 20108, 20112  | #357                      | diesel engine maintenance & repair   |

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| Transportation                          | 47.0604 | Boat, motorcycle, snowmobile, lawn mower & ATV repair          | 5-12 Small Engine Repair  | 20109, 20110, 20111,  | #387                                  | small tractor, lawn mower or motor bike repair & maintenance   |
| Manufacturing or Technology             | 15.0613 | Robotics & Automation (CIP)                                    | 5-12 Electronics  | 17105, 17106, 17107, 17108, 17109, 17110, 17111, 17112, 17  | #350                                  | many other codes under #962<br>soldering, circuit board assembly or repair, small machine repair   |
| Arts, AV, Technology & Communication    | 10.0301 | Journalism   | 5-12 Printing/Publishing  | 11001, 11002, 11003, 11047, 11048   | #343                                  | many other codes under #962<br>newspaper printing/publishing work, print machine or computer design layout work  |
| Arts, AV, Technology & Communication    | 50.0406 | Photography  | 5-12 Photography  | 11001, 11002, 11003, 11047, 11048, 11052, 11053, 11054, 110   | #333                                  | many other codes under #962<br>camera work, photo taking and graphic manipulation of pics or .jpg documents  |
| Arts, AV, Technology & Communication    | 15.1202 | Software systems   | 5-12 Computer Servicing Technology  | 10151, 10252, many other codes under #962   | #344, 348                             | many other codes under #962<br>computer serving/repair, software/hardware updates, network development and servicing   |
| Arts, AV, Technology & Communication    | 15.1202 | Hardware (IT) development and maintenance                      | 5-12 Computer Servicing Technology  | 10151, 10252, many other codes under #962   | #344, 348                             | many other codes under #962<br>computer serving/repair, software/hardware updates, network development and servicing   |
| Arts, AV, Technology & Communication    | 11.0201 | Computer Programming   | 5-12 Computer Servicing Technology, 5-12 Data Programming, 5-12 Data Processing | 10005, 10151, many other codes under #962   | #348, 352-Programming, 353-Processing | many other codes under #96<br>data entry & manipulation, data entry & programming, network development & servicing   |
| Arts, AV, Technology & Communication    | 15.1202 | Information Management   | 5-12 Data Programming, 5-12 Data Processing                                     | 10005, 10151, many other codes under #962   | #352, 353                             | many other codes under #962<br>data entry & manipulation, data entry & programming, network development & servicing  |
| Arts, AV, Technology & Communication    | 10.0301 | Web page design, layout & design (CIP)                         | 5-12 Graphic Arts   | 11001, 11002, 11003, 11047, 11048, 11052, 11053, 11054, 11055, 11056, 11097, 11098,   | #369                                  | many other codes under #962<br>graphic manipulation of pics or .jpg documents, computer design & image design for marketing                                    |
| Arts, AV, Technology & Communication    | 10.0301 | Multimedia presentation  | 5-12 Graphic Arts   | 11001, 11002, 11003, 11047, 11048, 11052, 11053, 11054, 11055, 11056, 11097, 11098,   | #369                                  | many other codes under #962<br>graphic manipulation of pics or .jpg documents, computer design & image design for marketing                                    |
| Arts, AV, Technology & Communication    | 10.0301 | Printing Press Operation/Graphic Design/ Newspaper publication | 5-12 Graphic Arts, 5-12 Printing/Publishing                                     | 11001, 11002, 11003, 11047, 11048, 11052, 11053, 11054, 11055, 11056, 11097, 11098,   | #369, 343 - Printing/Publishing       | many other codes under #962<br>graphic manipulation of pics or .jpg documents, computer design & image design for marketing                                    |
| Arts, AV, Technology & Communication    | 10.0202 | Radio & TV   | 5-12 Radio & TV   | 11001, 11002, 11003, 11047, 11048, 11103, 11104, 11105, 11147, 11148,   | #380                                  | many other codes under #962<br>TV or radio programming or editing, broadcasting or film or audio recording   |
| Arts, AV, Technology & Communication    | 11.0901 | Telecommunications   | 5-12 Radio & TV   | 11001, 11002, 11003, 11047, 11048, 11103, 11104, 11105, 11147, 11148,   | #380                                  | many other codes under #962<br>satellite & network development, cellular or WIFI wiring or network development   |
| Health Care Occupations                 | 51.0000 | Certified Nursing Assistant (CNA)                              | 5-12 Practical Nursing, 5-12 Health Occupations, nurses aide                    | 14051, 14052, 14053,  | #385, 382- nurses aide (CNA)          | medical work nurse, RN, LPN, ARNP, PA, CNA or PCP  |
| Health Care Occupations                 | 51.0000 | Health Occupations   | 5-12 General Health Occupations, 5-12 Health Occupations, nurses aide           | 14001, 14002, 14003, 14054, 14055, 14051, 14052, 14053, 14056, 14057, 14058, 14059, 14060, 14061, 14062, 14063, 14097, 14098, 14099, 14101, 14102, 14103, 14104, 14105, 14147, 14148, 14149, 14150, 14151, 14152, 14153, 14154, 14155, 14156, 14157, 14197, 14198, 14201, 14202, 14203, 14247, 14248, 14249, 14255, 14297, 14298, 14299, 14901, 14902, 14903, 14997, 14998, | #299, 382- nurses aide (CNA)          | any medical profession, doctor, nurse, CNA, therapist, athl. trainer, nutritionist, lab work or radiologist  |
| Health Care Occupations                 | 51.0000 | Health care management   | 5-12 General Health Occupations   | 14001, 14002, 14003, 14054, 14055, 14051, 14052, 14053, 14056, 14057, 14058, 14059, 14060, 14061, 14062, 14063, 14097, 14098, 14099, 14101, 14102, 14103, 14104, 14105, 14147, 14148, 14149, 14150, 14151, 14152, 14153, 14154, 14155, 14156, 14157, 14197, 14198, 14201, 14202, 14203, 14247, 14248, 14249, 14255, 14297, 14298, 14299, 14901, 14902, 14903, 14997, 14998, | #299                                  | hospital admin, nurse manager, or billing office manager   |
| Health Care Occupations                 | 51.0000 | Pharmacy   | 5-12 Pharmacy   | 14152,  | #334                                  | Pharmacist, or Pharm Asst.   |
| Health Care Occupations                 | 51.0000 | Emergency Medical Services                                     | 5-12 Emergency Medical Services   | 14055,  | #386                                  | EMT, paramedic, fire fighter or First responder (if medically trained)   |
| Health Care Occupations                 | 51.0000 | Hair care  | 5-12 Cosmetology  | 19101, 19102, 19103, 19104, 19105, 19106, 19107, 19147, 19148, 19149  | #378                                  | Hairdresser, barber  |
| Health Care Occupations                 | 51.0000 | Medical terminology  | 5-12 General Health Occupations   | 14001, 14002, 14003, 14054, 14055, 14051, 14052, 14053, 14056, 14057, 14058, 14059, 14060, 14061, 14062, 14063, 14097, 14098, 14099, 14101, 14102, 14103, 14104, 14105, 14147, 14148, 14149, 14150, 14151, 14152, 14153, 14154, 14155, 14156, 14157, 14197, 14198, 14201, 14202, 14203, 14247, 14248, 14249, 14255, 14297, 14298, 14299, 14901, 14902, 14903, 14997, 14998, | #299                                  | any medical profession, doctor, nurse, CNA, therapist, athl. trainer, nutritionist, lab work or radiologist, medical work nurse, RN, LPN, ARNP, PA, CNA or PCP |
| Education/Human Services                | 13.1210 | Early Childhood, Pre-school, day care                          | 5-12 Career FCS - Child Care  | 19051, 19052, 19053, 19054, 19055, 19097, 19098, 19099, 19153, 19154, 19201, 19202, 19203, 19240, 19205, 019206, 19207, 19247, 19248, 19249, 19151, 19152,  | #388, 303, 304                        | pre-school teacher or asst., paid work in childcare/pre-school   |
| Education/Human Services                | 19.0707 | Family & Community Services                                    | 5-12 Family & Community Services  | 19901, 19902, 19997, 19998, 19999, 19251, 12053, , 19001,   | #322, 304                             | DHS worker, counselor for youth/families, or dependent adults, ISU extension   |
| Business, Management, Finance & Banking | 52.0101 | Business   | 5-12 Office Education   | 12001, 12002, 12003, 12004, 12005, 12008, 12009, 12047, 12048, 12049, 12104,  | #302                                  | many other codes under #962<br>any business work or exp: insurance, finance, marketing, sales, retail, food industry, manager or supervisor                    |
| Business, Management, Finance & Banking | 52.0101 | Accounting   | 5-12 Accounting   | 12104, 12109, 12110,  | #3001                                 | many other codes under #962<br>accounting paid work  |
| Business, Management, Finance & Banking | 52.0101 | Actuarial  | 5-12 Actuarial Science  | 12001, 12002, 12003, 12004, 12005, 12008, 12009, 12047, 12048, 12049, 12104, 12104, 12109, 12110,   | #332                                  | many other codes under #962<br>accruist, or fiduciary services   |

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| Business, Management, Finance & Banking | 52.0101 | Finance                               | 5-12 Banking and Investment Occupations | 12001, 12002, 12003, 12004, 12005, 12008, 12009, 12047, 12048, 12049, 12104, 12104, 12109, 12110,  | #325         | many other codes under #962  |
| Business, Management, Finance & Banking | 52.0101 | Insurance occupations                 | 5-12 Insurance Occupations              | many codes under #962  | #324         | any banking, investment or fiduciary employment<br>many other codes under #962   |
| Business, Management, Finance & Banking | 52.0701 | Entrepreneur                          | 5-12 Entrepreneurship                   | many codes under #962  | #331 or 336  | insurance office work, or investigator, adjuster or claims<br>many other codes under #962  |
| Marketing                               | 52.1401 | Marketing                             | 5-12 Marketing/Distributive Ed.         | 12052, 12053, 12055, 12056, 12057, 12508, 12059, 12060, 12151, 12152, 12153, 12154, 12155, 12156, 12157, 12158, 12159, 12160, 12161, 12162, 12163, 12164, 12165, 12166, 12167, 12197, 12198, 12199, 12201, 12202, 12247, 1248, 12249, 12901, 12902, 12997, 12998, 12999, | #301         | small business ownership, or management<br>many other codes under #962<br>marketing experience within a business, also usually get 5-12 Office Ed. |
| Work Based Learning                     |         | WBL                                   | 5-12 Work Based learning Coordinator    | 22998, 50040   | #290 or #305 | TBD  |
| Aviation                                |         | Aviation Technology                   | 5-12 Aviation Technology,               | 20053,   | #345         | airline pilot or air traffic control, many military related experiences qualify  |
| Aviation                                |         | Aviation Mechanic                     | 5-12 Airframe Mechanic                  | 20113, 20114, 21055  | #365         | airframe repair, maintenance or engine repair, many military related experiences qualify   |
| Law & Public Safety                     | 43.0107 | Protective Services                   | 5-12 Law Enforcement                    | 15001, 15051, 15052, 15053, 15054, 15055, 15056, 15057, 15097, 15098, 15099, 15101, 15102, 15103, 15104, 15147, 15148, 15149, 15201, 15202, 15203,   | #360         | law enforcement, fire fighting, DNR officers   |
| Law & Public Safety                     | 43.0107 | Wildlife & Game enforcement           | 5-12 Law Enforcement                    | 15001, 15051, 15052, 15053, 15054, 15055, 15056, 15057, 15097, 15098, 15099, 15101, 15102, 15103, 15104, 15147, 15148, 15149, 15201, 15202, 15203,   | #360         | DNR officers, conservation worker  |
| Law & Public Safety                     | 43.0107 | Corrections                           | 5-12 Law Enforcement                    | 15001, 15051, 15052, 15053, 15054, 15055, 15056, 15057, 15097, 15098, 15099, 15101, 15102, 15103, 15104, 15147, 15148, 15149, 15201, 15202, 15203,   | #360         | jailer, or prison guard or worker/supervisor   |
| Law & Public Safety                     |         | ROTC                                  |   | 09001, 09002, 09003, 09051, 09052, 09053, 09054, 09101, 09102, 09103, 09104, 09151, 09152, 09153, 09154, 09201, 09202, 09995, 09997, 09998, 09999  | #374         | any military related experiences qualify   |
| Law & Public Safety                     | 43.0107 | Careers in Fire response services     | 5-12 Emergency Medical Services         | 15151, 15152, 15153, 15197, 15198, 15999, 15201, 15202, 15203, 15247, 15248, 15249, 15901, 15902, 15995, 15997, 15998, 15999,  | #386         | Fire fighting  |
| Law & Public Safety                     |         | Careers in Legal Services             | 5-12 Legal Services                     | 15201, 15202, 15203  | #323         | many other codes under #962<br>lawyer, para-legal or judicial position   |
| Hospitality & Tourism                   | 52.0901 | Lodging/Hospitality/Tourism           | 5-12 Hospitality and Tourism            | 16101, 16102, 16104, 16147, 16148, 16149, 16151, 16152, 16153, 16154, 16155, 16197, 16198, 16199, 16204, 16901, 16902, 16997, 16999,   | #339         | many other codes under #962<br>Hotel/Motel employee/manager, caterer or event manager  |
| Hospitality & Tourism                   | 12.0500 | Restaurant, food service and Beverage | 5-12 Career FCS - Food Service          | 16054, 16055, 16056, 16057, 16097, 16098, 16098,   | #389         | caterer, cook, server, bartender, nutritionist or kitchen prep   |
| Hospitality & Tourism                   | 12.0500 | Food Preparation & presentation       | 5-12 Culinary Arts                      | 16001, 16051, 16052, 16053, 16054, 16055, 16056, 16057, 16097, 16098, 16098, 16099   | #363, 303    | caterer, cook, or nutritionist   |
| Hospitality & Tourism                   | 19.0901 | Textiles/Clothing                     | 5-12 Career FCS - Fashion Merch         | none   | #390         | clothing design, retail presentation or purchasing agent   |