

Table 7 SOC_CIP XWalk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clstr No	Career Clusters Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Clstr*	CrossWalk Rel Strength**
11-9121	Natural Sciences Managers	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	26.0701	Zoology/Animal Biology.	15	Science, Technology, Engineering & Mathematics	0	0
19-1023	Zoologists and Wildlife Biologists	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	26.0708	Animal Behavior and Ethology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1023	Zoologists and Wildlife Biologists	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	26.0707	Animal Physiology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1023	Zoologists and Wildlife Biologists	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	26.1301	Ecology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1023	Zoologists and Wildlife Biologists	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	26.0702	Entomology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1023	Zoologists and Wildlife Biologists	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	30.3201	Marine Sciences.	15	Science, Technology, Engineering & Mathematics	0	1
19-1023	Zoologists and Wildlife Biologists	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	26.0709	Wildlife Biology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1023	Zoologists and Wildlife Biologists	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	03.0601	Wildlife, Fish and Wildlands Science and M	1	Agriculture, Food & Natural Resources	1	2
19-1023	Zoologists and Wildlife Biologists	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	26.0799	Zoology/Animal Biology, Other.	15	Science, Technology, Engineering & Mathematics	0	1
19-1023	Zoologists and Wildlife Biologists	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	26.0701	Zoology/Animal Biology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1032	Foresters	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	03.0506	Forest Management/Forest Resources M	1	Agriculture, Food & Natural Resources	1	2
19-1032	Foresters	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	03.0510	Forest Resources Production and Manage	1	Agriculture, Food & Natural Resources	1	2
19-1032	Foresters	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	03.0502	Forest Sciences and Biology.	1	Agriculture, Food & Natural Resources	1	2
19-1032	Foresters	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	03.0501	Forestry, General.	1	Agriculture, Food & Natural Resources	1	2
19-1032	Foresters	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	03.0599	Forestry, Other.	1	Agriculture, Food & Natural Resources	1	2
19-1032	Foresters	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	03.0201	Natural Resources Management and Polic	1	Agriculture, Food & Natural Resources	1	2
19-1032	Foresters	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	03.0101	Natural Resources/Conservation, Genera	1	Agriculture, Food & Natural Resources	1	2
19-1032	Foresters	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	03.0508	Urban Forestry.	1	Agriculture, Food & Natural Resources	1	2
19-1032	Foresters	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	03.0509	Wood Science and Wood Products/Pulp a	1	Agriculture, Food & Natural Resources	1	2
19-4041	Geological and Petroleum Technicians	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	15.0999	Mining and Petroleum Technologies/Tech	1	Agriculture, Food & Natural Resources	1	2
19-4041	Geological and Petroleum Technicians	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	15.0903	Petroleum Technology/Technician.	1	Agriculture, Food & Natural Resources	1	2
19-4093	Forest and Conservation Technicians	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	03.0511	Forest Technology/Technician.	1	Agriculture, Food & Natural Resources	1	2
19-4093	Forest and Conservation Technicians	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	03.0599	Forestry, Other.	1	Agriculture, Food & Natural Resources	1	2
45-3013	Fishers and Related Fishing Workers	1.5	Natural Resources Systems	1	1	Agriculture, Food & Natural Resources	03.0709	Fishing and Fisheries Sciences and Manag	1	Agriculture, Food & Natural Resources	1	2
45-4022	Logistics Equipment Operators	1.6	Environmental Service Systems	1	1	Agriculture, Food & Natural Resources	49.0202	Controlled/Heavy Equipment/Earthmo	0	Architecture & Construction	0	1
17-2081	Environmental Engineers	1.6	Environmental Service Systems	1	1	Agriculture, Food & Natural Resources	14.1401	Environmental/Environmental Health Engi	15	Science, Technology, Engineering & Mathematics	0	1
17-3025	Environmental Engineering Technicians	1.6	Environmental Service Systems	1	1	Agriculture, Food & Natural Resources	14.0802	Geotechnical and Geoenvironmental Engr	15	Science, Technology, Engineering & Mathematics	0	1
17-3025	Environmental Engineering Technicians	1.6	Environmental Service Systems	1	1	Agriculture, Food & Natural Resources	15.0507	Environmental Engineering Technology/Ei	1	Agriculture, Food & Natural Resources	1	2
17-3025	Environmental Engineering Technicians	1.6	Environmental Service Systems	1	1	Agriculture, Food & Natural Resources	15.0704	Hazardous Materials Information Systems	15	Science, Technology, Engineering & Mathematics	0	1
19-4091	Environmental Science and Protection Technicians, Including Health	1.6	Environmental Service Systems	1	1	Agriculture, Food & Natural Resources	41.0399	Physical Science Technologies/Technician	13	Manufacturing	0	1
19-4091	Environmental Science and Protection Technicians, Including Health	1.6	Environmental Service Systems	1	1	Agriculture, Food & Natural Resources	41.9999	Science Technologies/Technicians, Other	13	Manufacturing	0	1
49-1033	Hazardous Materials Removal Workers	1.6	Environmental Service Systems	1	1	Agriculture, Food & Natural Resources	15.0903	Environmental Services/Management and W	1	Agriculture, Food & Natural Resources	1	2
51-8031	Water and Wastewater Treatment Plant and System Operators	1.6	Environmental Service Systems	1	1	Agriculture, Food & Natural Resources	15.0506	Water Quality and Wastewater Treatmen	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0102	Agribusiness/Agricultural Business Opera	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0902	Agricultural Animal Breeding.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0101	Agricultural Business and Management, G	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0199	Agricultural Business and Management, O	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0301	Agricultural Production Operations, Gene	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0309	Agricultural Production Operations, Other	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0308	Agroecology and Sustainable Agriculture.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.1102	Agronomy and Crop Science.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0903	Animal Health.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0904	Animal Nutrition.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0901	Animal Sciences, General.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0999	Animal Sciences, Other.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0302	Animal/Livestock Husbandry and Product	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0601	Applied Horticulture/Horticulture Operati	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0303	Aquaculture.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0304	Crop Production.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0306	Dairy Husbandry and Production.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0905	Dairy Science.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0104	Farm/Farm and Ranch Management.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0604	Greenhouse Operations and Management.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0907	Horse Husbandry/Equine Science and Man	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.1103	Horticultural Science.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0906	Livestock Management.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0603	Ornamental Horticulture.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0606	Plant Nursery Operations and Manager	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.1105	Plant Protection and Integrated Pest Man	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.1101	Plant Sciences, General.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0907	Poultry Science.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.1106	Range Science and Management.	1	Agriculture, Food & Natural Resources	1	2
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1.7	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0309	Viticulture and Enology.	1	Agriculture, Food & Natural Resources	1	2
13-1021	Buyers and Purchasing Agents, Farm Products	2.1	Agribusiness Systems	1	1	Agriculture, Food & Natural Resources	01.0105	Agricultural/Farm Supplies Retailing and	1	Agriculture, Food & Natural Resources	1	2
13-1051	Cost Estimators	2.1	Design/Pre-Construction	2	2	Architecture & Construction	52.0201	Business Administration and Management	4	Business Management & Administration	0	1
13-1051	Cost Estimators	2.1	Design/Pre-Construction	2	2	Architecture & Construction	52.0101	Business/Commerce, General.	4	Business Management & Administration	0	1
13-1051	Cost Estimators	2.1	Design/Pre-Construction	2	2	Architecture & Construction	15.1001	Construction Engineering Technology/Te	2	Architecture & Construction	1	2
13-1051	Cost Estimators	2.1	Design/Pre-Construction	2	2	Architecture & Construction	14.3301	Construction Engineering.	15	Science, Technology, Engineering & Mathematics	0	1
13-1051	Cost Estimators	2.1	Design/Pre-Construction	2	2	Architecture & Construction	14.3601	Manufacturing Engineering.	15	Science, Technology, Engineering & Mathematics	0	1
13-1051	Cost Estimators	2.1	Design/Pre-Construction	2	2	Architecture & Construction	14.1801	Materials Engineering.	15	Science, Technology, Engineering & Mathematics	0	1
13-1051	Cost Estimators	2.1	Design/Pre-Construction	2	2	Architecture & Construction	14.1901	Mechanical Engineering.	15	Science, Technology, Engineering & Mathematics	0	1
17-1011	Architects, Except Landscape and Naval	2.1	Design/Pre-Construction	2	2	Architecture & Construction	04.0801	Architectural History and Criticism, Gene	2	Architecture & Construction	1	2
17-1011	Architects, Except Landscape and Naval	2.1	Design/Pre-Construction	2	2	Architecture & Construction	04.0201	Architecture.	2	Architecture & Construction	1	2
17-1011	Architects, Except Landscape and Naval	2.1	Design/Pre-Construction	2	2	Architecture & Construction	04.0401	Environmental Design/Architecture.	2	Architecture & Construction	1	2
17-1012	Landscape Architects	2.1	Design/Pre-Construction	2	2	Architecture & Construction	04.0401	Environmental Design/Architecture.	2	Architecture & Construction	1	2
17-1022	Surveyors	2.1	Design/Pre-Construction	2	2	Architecture & Construction	15.1102	Surveying Technology/Surveying.	15	Science, Technology, Engineering & Mathematics	0	1
17-2051	Civil Engineers	2.1	Design/Pre-Construction	2	2	Architecture & Construction	14.0801	Civil Engineering, General.	15	Science, Technology, Engineering & Mathematics	0	1
17-2051	Civil Engineers	2.1	Design/Pre-Construction	2	2	Architecture & Construction	14.0899	Civil Engineering, Other.	15	Science, Technology, Engineering & Mathematics	0	1
17-2051	Civil Engineers	2.1	Design/Pre-Construction	2	2	Architecture & Construction	14.3301	Construction Engineering.	15	Science, Technology, Engineering & Mathematics	0	1
17-2051	Civil Engineers	2.1	Design/Pre-Construction	2	2	Architecture & Construction	14.0802	Geotechnical and Geoenvironmental Engr	15	Science, Technology, Engineering & Mathematics	0	1
17-2051	Civil Engineers	2.1	Design/Pre-Construction	2	2	Architecture & Construction	14.0803	Structural Engineering.	15	Science, Technology, Engineering & Mathematics	0	1
17-2051	Civil Engineers	2.1	Design/Pre-Construction	2	2	Architecture & Construction	14.0804	Transportation and Highway Engineering.	15	Science, Technology, Engineering & Mathematics	0	1
17-2051	Civil Engineers	2.1	Design/Pre-Construction	2	2	Architecture & Construction	14.0805	Water Resources Engineering.	15	Science, Technology, Engineering & Mathematics	0	1
17-3011	Architectural and Civil Drafters	2.1	Design/Pre-Construction	2	2	Architecture & Construction	04.0902	Architectural and Building Sciences/Tech	2	Architecture & Construction	1	2
17-3011	Architectural and Civil Drafters	2.1	Design/Pre-Construction	2	2	Architecture & Construction	15.1303	Architectural Drafting and Architectural	2	Architecture & Construction	1	2
17-3011	Architectural and Civil Drafters	2.1	Design/Pre-Construction	2	2	Architecture & Construction	04.0999	Architectural Sciences and Technology, C	2	Architecture & Construction	1	2
17-3011	Architectural and Civil Drafters	2.1	Design/Pre-Construction	2	2	Architecture & Construction	04.0901	Architectural Technology/Technician.	2	Architecture & Construction	1	2
17-3011	Architectural and Civil Drafters	2.1	Design/Pre-Construction	2	2	Architecture & Construction	15.1302	CAD/CADD Drafting and/or Design Tech	13	Manufacturing	0	1
17-3011	Architectural and Civil Drafters	2.1	Design/Pre-Construction	2	2	Architecture & Construction	15.1304	Civil Drafting and Civil Engineering CAD/C	2	Architecture & Construction	0	1
17-3011	Architectural and Civil Drafters	2.1	Design/Pre-Construction	2	2	Architecture & Construction	15.3001	Drafting and Design Technology/Technic	13	Manufacturing	0	1
17-3022	Civil Engineering Technicians	2.1	Design/Pre-Construction	2	2	Architecture & Construction	46.0415	Building Construction Technology.	2	Architecture & Construction	1	2
17-3022	Civil Engineering Technicians	2.1	Design/Pre-Construction	2	2	Architecture & Construction	15.0201	Civil Engineering Technology/Technician.	2	Architecture & Construction	1	2

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17-3022	Civil Engineering Technicians	2.1	Design/Pre-Construction	2	Architecture & Construction	15.1001	Construction Engineering Technology/Te	2	Architecture & Construction	0	2
17-3031	Surveying and Mapping Technicians	2.1	Design/Pre-Construction	2	Architecture & Construction	15.1102	Surveying Technology/Surveying	15	Science, Technology, Engineering & Mathemat	0	1
27-1025	Interior Designers	2.1	Design/Pre-Construction	2	Architecture & Construction	19.0604	Facilities Planning and Management	4	Business Management & Administration	0	1
27-1025	Interior Designers	2.1	Design/Pre-Construction	2	Architecture & Construction	40.0501	Interior Architecture	2	Architecture & Construction	1	2
27-1025	Interior Designers	2.1	Design/Pre-Construction	2	Architecture & Construction	50.0408	Interior Design	2	Architecture & Construction	1	2
27-1025	Interior Designers	2.1	Design/Pre-Construction	2	Architecture & Construction	19.0904	Textile Science	13	Manufacturing	0	1
11-9021	Construction Managers	2.2	Construction	2	Architecture & Construction	52.0201	Business Administration and Management	4	Business Management & Administration	0	0
11-9021	Construction Managers	2.2	Construction	2	Architecture & Construction	52.0101	Business/Commerce, General	4	Business Management & Administration	0	0
11-9021	Construction Managers	2.2	Construction	2	Architecture & Construction	15.1001	Construction Engineering Technology/Te	2	Architecture & Construction	1	2
11-9021	Construction Managers	2.2	Construction	2	Architecture & Construction	52.0201	Operations Management and Supervision	4	Business Management & Administration	0	0
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0505	Blasting/Blaster	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0415	Building Construction Technology	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0412	Building/Construction Site Management/I	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0403	Building/Home/Construction Inspection/I	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0401	Building/Property Maintenance	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0201	Carpentry/Carpenter	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0413	Carpet, Floor, and Tile Worker	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0402	Concrete Finishing/Concrete Finisher	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0000	Construction Trades, General	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0404	Drywall Installation/Drywall	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0302	Electrician	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0406	Glazier	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0414	Insulator	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0101	Mason/Masonry	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0408	Painting/Painter and Wall Coverer	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0502	Pipefitting/Pipefitter and Sprinkler Fitter	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0503	Plumbing Technology/Plumber	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0410	Roofer	2	Architecture & Construction	1	2
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2.2	Construction	2	Architecture & Construction	46.0504	Well Drilling/Driller	2	Architecture & Construction	1	2
47-2021	Brickmasons and Blockmasons	2.2	Construction	2	Architecture & Construction	46.0101	Mason/Masonry	2	Architecture & Construction	1	2
47-2022	Stonemasons	2.2	Construction	2	Architecture & Construction	46.0103	Mason/Masonry	2	Architecture & Construction	1	2
47-2031	Carpenters	2.2	Construction	2	Architecture & Construction	46.0201	Carpentry/Carpenter	2	Architecture & Construction	1	2
47-2041	Carpet Installers	2.2	Construction	2	Architecture & Construction	46.0413	Carpet, Floor, and Tile Worker	2	Architecture & Construction	1	2
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	2.2	Construction	2	Architecture & Construction	46.0413	Carpet, Floor, and Tile Worker	2	Architecture & Construction	1	2
47-2043	Floor Sanders and Finishers	2.2	Construction	2	Architecture & Construction	46.0413	Carpet, Floor, and Tile Worker	2	Architecture & Construction	1	2
47-2044	Tile and Marble Setters	2.2	Construction	2	Architecture & Construction	46.0413	Carpet, Floor, and Tile Worker	2	Architecture & Construction	1	2
47-2044	Tile and Marble Setters	2.2	Construction	2	Architecture & Construction	46.0101	Mason/Masonry	2	Architecture & Construction	1	2
47-2044	Tile and Marble Setters	2.2	Construction	2	Architecture & Construction	46.0402	Concrete Finishing/Concrete Finisher	2	Architecture & Construction	1	2
47-2053	Terrazzo Workers and Finishers	2.2	Construction	2	Architecture & Construction	46.0413	Carpet, Floor, and Tile Worker	2	Architecture & Construction	1	2
47-2071	Paving, Surfacing, and Tamping Equipment Operators	2.2	Construction	2	Architecture & Construction	49.0202	Construction/Heavy Equipment/Earthm	2	Architecture & Construction	1	2
47-2072	Pile-Driver Operators	2.2	Construction	2	Architecture & Construction	49.0202	Construction/Heavy Equipment/Earthm	2	Architecture & Construction	1	2
47-2073	Operating Engineers and Other Construction Equipment Operators	2.2	Construction	2	Architecture & Construction	49.0202	Construction/Heavy Equipment/Earthm	2	Architecture & Construction	1	2
47-2073	Operating Engineers and Other Construction Equipment Operators	2.2	Construction	2	Architecture & Construction	49.0206	Mobil Crane Operation/Operator	2	Architecture & Construction	1	2
47-2081	Drywall and Ceiling Tile Installers	2.2	Construction	2	Architecture & Construction	46.0404	Drywall Installation/Drywall	2	Architecture & Construction	1	2
47-2111	Electricians	2.2	Construction	2	Architecture & Construction	46.0302	Electrician	2	Architecture & Construction	1	2
47-2121	Glaziers	2.2	Construction	2	Architecture & Construction	46.0406	Glazier	2	Architecture & Construction	1	2
47-2131	Insulation Workers, Floor, Ceiling, and Wall	2.2	Construction	2	Architecture & Construction	46.0414	Insulator	2	Architecture & Construction	1	2
47-2132	Insulation Workers, Mechanical	2.2	Construction	2	Architecture & Construction	46.0414	Insulator	2	Architecture & Construction	1	2
47-2141	Painters, Construction and Maintenance	2.2	Construction	2	Architecture & Construction	46.0408	Painting/Painter and Wall Coverer	2	Architecture & Construction	1	2
47-2142	Paperhangers	2.2	Construction	2	Architecture & Construction	46.0408	Painting/Painter and Wall Coverer	2	Architecture & Construction	1	2
47-2152	Plumbers, Pipefitters, and Steamfitters	2.2	Construction	2	Architecture & Construction	46.0502	Pipefitting/Pipefitter and Sprinkler Fitter	2	Architecture & Construction	1	2
47-2152	Plumbers, Pipefitters, and Steamfitters	2.2	Construction	2	Architecture & Construction	46.0599	Plumbing and Related Water Supply Serv	2	Architecture & Construction	1	2
47-2152	Plumbers, Pipefitters, and Steamfitters	2.2	Construction	2	Architecture & Construction	46.0503	Plumbing Technology/Plumber	2	Architecture & Construction	1	2
47-2181	Roofers	2.2	Construction	2	Architecture & Construction	46.0410	Roofer	2	Architecture & Construction	1	2
47-2211	Sheet Metal Workers	2.2	Construction	2	Architecture & Construction	48.0506	Sheet Metal Technology/Sheetworking	2	Architecture & Construction	1	2
47-2221	Structural Iron and Steel Workers	2.2	Construction	2	Architecture & Construction	46.0411	Metal Building Assembly/Assembler	2	Architecture & Construction	1	2
47-2231	Solar Photovoltaic Installers	2.2	Construction	2	Architecture & Construction	46.0410	Roofer	2	Architecture & Construction	1	2
47-2231	Solar Photovoltaic Installers	2.2	Construction	2	Architecture & Construction	15.0505	Solar Energy Technology/Technician	13	Manufacturing	0	1
47-5011	Derrick Operators, Oil and Gas	2.2	Construction	2	Architecture & Construction	46.0504	Well Drilling/Driller	2	Architecture & Construction	1	2
47-5012	Rotary Drill Operators, Oil and Gas	2.2	Construction	2	Architecture & Construction	46.0504	Well Drilling/Driller	2	Architecture & Construction	1	2
47-5013	Service Unit Operators, Oil, Gas, and Mining	2.2	Construction	2	Architecture & Construction	15.0901	Mining Technology/Technician	1	Agriculture, Food & Natural Resources	0	1
47-5021	Earth Drillers, Except Oil and Gas	2.2	Construction	2	Architecture & Construction	49.0202	Construction/Heavy Equipment/Earthm	2	Architecture & Construction	1	2
47-5021	Earth Drillers, Except Oil and Gas	2.2	Construction	2	Architecture & Construction	46.0504	Well Drilling/Driller	2	Architecture & Construction	1	2
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	2.2	Construction	2	Architecture & Construction	46.0505	Blasting/Blaster	2	Architecture & Construction	1	2
47-5041	Continuous Mining Machine Operators	2.2	Construction	2	Architecture & Construction	49.0202	Construction/Heavy Equipment/Earthm	2	Architecture & Construction	1	2
47-5042	Mine Cutting and Channelling Machine Operators	2.2	Construction	2	Architecture & Construction	49.0202	Construction/Heavy Equipment/Earthm	2	Architecture & Construction	1	2
47-5049	Mining Machine Operators, All Other	2.2	Construction	2	Architecture & Construction	49.0202	Construction/Heavy Equipment/Earthm	2	Architecture & Construction	1	2
47-5099	Extraction Workers, All Other	2.2	Construction	2	Architecture & Construction	49.0202	Construction/Heavy Equipment/Earthm	2	Architecture & Construction	1	2
49-9095	Manufactured Building and Mobile Home Installers	2.2	Construction	2	Architecture & Construction	46.0412	Building/Construction Site Management/I	2	Architecture & Construction	1	2
51-2041	Structural Metal Fabricators and Fitters	2.2	Construction	2	Architecture & Construction	48.0503	Machine Shop Technology/Assistant	13	Manufacturing	0	1
51-2041	Structural Metal Fabricators and Fitters	2.2	Construction	2	Architecture & Construction	48.0511	Metal Fabricator	13	Manufacturing	0	1
53-7021	Crane and Tower Operators	2.2	Construction	2	Architecture & Construction	49.0202	Construction/Heavy Equipment/Earthm	2	Architecture & Construction	1	2
53-7021	Crane and Tower Operators	2.2	Construction	2	Architecture & Construction	49.0206	Mobil Crane Operation/Operator	2	Architecture & Construction	1	2
53-7031	Dredge Operators	2.2	Construction	2	Architecture & Construction	49.0202	Construction/Heavy Equipment/Earthm	2	Architecture & Construction	1	2
53-7032	Excavator/Landgrading Machine and Dragline Operators	2.2	Construction	2	Architecture & Construction	49.0202	Construction/Heavy Equipment/Earthm	2	Architecture & Construction	1	2
53-7041	Hoist and Winch Operators	2.2	Construction	2	Architecture & Construction	49.0202	Construction/Heavy Equipment/Earthm	2	Architecture & Construction	1	2
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Work	2.3	Maintenance/Operations	2	Architecture & Construction	01.0601	Applied Horticulture/Horticulture Operati	1	Agriculture, Food & Natural Resources	0	1
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Work	2.3	Maintenance/Operations	2	Architecture & Construction	31.0302	Golf Course Operation and Grounds Mana	1	Agriculture, Food & Natural Resources	0	1
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Work	2.3	Maintenance/Operations	2	Architecture & Construction	01.0604	Greenhouse Operations and Management	1	Agriculture, Food & Natural Resources	0	1
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Work	2.3	Maintenance/Operations	2	Architecture & Construction	01.0605	Landscaping and Groundskeeping	1	Agriculture, Food & Natural Resources	0	1
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Work	2.3	Maintenance/Operations	2	Architecture & Construction	01.0603	Ornamental Horticulture	1	Agriculture, Food & Natural Resources	0	1
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Work	2.3	Maintenance/Operations	2	Architecture & Construction	01.0606	Plant Nursery Operations and Managemen	2	Agriculture, Food & Natural Resources	0	1
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Work	2.3	Maintenance/Operations	2	Architecture & Construction	01.0607	Turf and Turfgrass Management	1	Agriculture, Food & Natural Resources	0	1
47-2011	Boilermakers	2.3	Maintenance/Operations	2	Architecture & Construction	48.0801	Boilermaking/Boilermaker	2	Architecture & Construction	1	2
47-4021	Elevator Installers and Repairers	2.3	Maintenance/Operations	2	Architecture & Construction	47.0303	Industrial Mechanics and Maintenance Tex	13	Manufacturing	0	1
47-4051	Highway Maintenance Workers	2.3	Maintenance/Operations	2	Architecture & Construction	49.0202	Construction/Heavy Equipment/Earthm	2	Architecture & Construction	1	2
47-4051	Highway Maintenance Workers	2.3	Maintenance/Operations	2	Architecture & Construction	49.0207	Flagging and Traffic Control	16	Transportation, Distribution & Logistics	0	1
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	2.3	Maintenance/Operations	2	Architecture & Construction	46.0503	Plumbing Technology/Plumber	2	Architecture & Construction	1	2
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	2.3	Maintenance/Operations	2	Architecture & Construction	47.0201	Heating, Air Conditioning, Ventilation and	2	Architecture & Construction	1	2
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	2.3	Maintenance/Operations	2	Architecture & Construction	15.0501	Heating, Ventilation, Air Conditioning and	13	Manufacturing	0	1
49-9044	Millwrights	2.3	Maintenance/Operations	2	Architecture & Construction	47.0303	Industrial Mechanics and Maintenance Tex	13	Manufacturing	0	1
49-9045	Refractory Materials Repairers, Except Brickmasons	2.3	Maintenance/Operations	2	Architecture & Construction	47.0303	Industrial Mechanics and Maintenance Tex	13	Manufacturing	0	1

Table 7 SOC_CIP Xwalk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Clstr No	Career Clusters Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Clstr*	CrossWalk Rel Strength**
27-3043	Writers and Authors	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	09.0401	Journalism.	3	Arts, Audio/Video Technology & Communication	1	2
27-3043	Writers and Authors	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	23.1499	Literature, Other.	5	Education & Training	0	1
27-3043	Writers and Authors	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	09.0102	Mass Communication/Media Studies.	3	Arts, Audio/Video Technology & Communication	1	2
27-3043	Writers and Authors	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	50.0504	Playwriting and Screenwriting.	3	Arts, Audio/Video Technology & Communication	1	2
27-3043	Writers and Authors	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	23.1303	Professional, Technical, Business, and Sci	3	Arts, Audio/Video Technology & Communication	1	2
27-3043	Writers and Authors	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	23.1304	Rhetoric and Composition.	3	Arts, Audio/Video Technology & Communication	1	2
27-3043	Writers and Authors	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	23.1399	Rhetoric and Composition/Writing Studie	3	Arts, Audio/Video Technology & Communication	1	2
27-3043	Writers and Authors	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	09.0101	Speech Communication and Rhetoric.	3	Arts, Audio/Video Technology & Communication	1	2
27-3043	Writers and Authors	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	23.1301	Writing, General.	3	Arts, Audio/Video Technology & Communication	1	2
27-3099	Media and Communication Workers, All Other	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	10.0105	Communications Technology/Technician.	3	Arts, Audio/Video Technology & Communication	1	2
27-3099	Media and Communication Workers, All Other	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	09.0702	Digital Communication and Media/Multim	3	Arts, Audio/Video Technology & Communication	1	2
27-4011	Audio and Video Equipment Technicians	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	01.0802	Agricultural Communication/Journalism.	3	Arts, Audio/Video Technology & Communication	1	2
27-4011	Audio and Video Equipment Technicians	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	10.0201	Photographic and Film/Video Technology	3	Arts, Audio/Video Technology & Communication	1	2
27-4011	Audio and Video Equipment Technicians	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	10.0203	Recording Arts Technology/Technician.	3	Arts, Audio/Video Technology & Communication	1	2
27-4012	Broadcast Technicians	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	10.0299	Audiovisual Communications Technologie	3	Arts, Audio/Video Technology & Communication	1	2
27-4012	Broadcast Technicians	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	10.0105	Communications Technology/Technician.	3	Arts, Audio/Video Technology & Communication	1	2
27-4012	Broadcast Technicians	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	10.0202	Radio and Television Broadcasting Techn	3	Arts, Audio/Video Technology & Communication	1	2
27-4013	Radio Operators	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	47.0103	Communications Systems Installation and	3	Arts, Audio/Video Technology & Communication	1	2
27-4014	Sound Engineering Technicians	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	10.0105	Communications Technology/Technician.	3	Arts, Audio/Video Technology & Communication	1	2
27-4014	Sound Engineering Technicians	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	50.0913	Music Technology.	3	Arts, Audio/Video Technology & Communication	1	2
27-4014	Sound Engineering Technicians	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	10.0203	Recording Arts Technology/Technician.	3	Arts, Audio/Video Technology & Communication	1	2
27-4021	Photographers	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	50.0701	Art/Art Studies, General.	3	Arts, Audio/Video Technology & Communication	1	2
27-4021	Photographers	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	50.0406	Commercial Photography.	3	Arts, Audio/Video Technology & Communication	1	2
27-4021	Photographers	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	45.0501	Digital Arts.	3	Arts, Audio/Video Technology & Communication	1	2
27-4021	Photographers	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	50.0605	Photography.	3	Arts, Audio/Video Technology & Communication	1	2
27-4021	Photographers	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	09.0404	Photojournalism.	3	Arts, Audio/Video Technology & Communication	1	2
27-4021	Photographers	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	50.0101	Visual and Performing Arts, General.	3	Arts, Audio/Video Technology & Communication	1	2
27-4031	Camera Operators, Television, Video, and Motion Picture	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	10.0299	Audiovisual Communications Technologie	3	Arts, Audio/Video Technology & Communication	1	2
27-4031	Camera Operators, Television, Video, and Motion Picture	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	50.0602	Cinematography and Film/Video Product	3	Arts, Audio/Video Technology & Communication	1	2
27-4031	Camera Operators, Television, Video, and Motion Picture	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	50.0607	Documentary Production.	3	Arts, Audio/Video Technology & Communication	1	2
27-4031	Camera Operators, Television, Video, and Motion Picture	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	10.0202	Radio and Television Broadcasting Techn	3	Arts, Audio/Video Technology & Communication	1	2
27-4032	Film and Video Editors	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	50.0602	Cinematography and Film/Video Product	3	Arts, Audio/Video Technology & Communication	1	2
27-4032	Film and Video Editors	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	10.0105	Communications Technology/Technician.	3	Arts, Audio/Video Technology & Communication	1	2
27-4032	Film and Video Editors	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	50.0607	Documentary Production.	3	Arts, Audio/Video Technology & Communication	1	2
27-4032	Film and Video Editors	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	09.0404	Photojournalism.	3	Arts, Audio/Video Technology & Communication	1	2
27-4032	Film and Video Editors	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	10.0202	Radio and Television Broadcasting Techn	3	Arts, Audio/Video Technology & Communication	1	2
27-4032	Film and Video Editors	3.5	Journalism and Broadcasting	3	Arts, Audio/Video Technology & Communication	09.0701	Radio and Television.	3	Arts, Audio/Video Technology & Communication	1	2
49-9052	Telecommunications Line Installers and Repairers, Except Line Installers	3.6	Telecommunications	3	Arts, Audio/Video Technology & Communication	47.0103	Communications Systems Installation and	3	Arts, Audio/Video Technology & Communication	1	2
49-9052	Telecommunications Line Installers and Repairers	3.6	Telecommunications	3	Arts, Audio/Video Technology & Communication	47.0103	Communications Systems Installation and	3	Arts, Audio/Video Technology & Communication	1	2
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	54.0102	American History (United States).	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.1002	American Government and Politics (Unite	7	Government & Public Administration	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0299	Anthropology, Other.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0201	Anthropology.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2814	Applied Behavior Analysis.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0602	Applied Economics.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2813	Applied Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0301	Archeology.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	25.0103	Archives/Archival Administration.	5	Education & Training	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	50.1099	Arts, Entertainment, and Media Managem	3	Arts, Audio/Video Technology & Communicat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	50.1001	Arts, Entertainment, and Media Managem	3	Arts, Audio/Video Technology & Communicat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	54.0106	Asian History.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	52.0201	Business Administration and Management	4	Business Management & Administration	1	2
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0301	Canadian Government and Politics.	7	Government & Public Administration	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	54.0107	Canadian History.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2807	Clinical Child Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2801	Clinical Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	51.0719	Clinical Research Coordinator.	8	Health Science	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2899	Clinical, Counseling and Applied Psychol	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2701	Cognitive Psychology and Psycholinguist	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2802	Community Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2702	Comparative Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2803	Counseling Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	43.0103	Criminal Justice/Law Enforcement Admin	12	Law, Public Safety, Corrections & Security	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0401	Criminology.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	43.0302	Crisis/Emergency/Disaster Management.	12	Law, Public Safety, Corrections & Security	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	43.0303	Critical Infrastructure Protection.	12	Law, Public Safety, Corrections & Security	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0204	Cultural Anthropology.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0501	Demography and Population Studies.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0604	Development Economics and Internationa	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2703	Developmental and Child Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	09.0702	Digital Communication and Media/Multim	3	Arts, Audio/Video Technology & Communicat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0603	Econometrics and Quantitative Economic	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0601	Economics, General.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0699	Economics, Other.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2806	Educational Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	52.0701	Entrepreneurship/Entrepreneurial Studie	4	Business Management & Administration	1	2
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2808	Environmental Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	54.0103	European History.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2704	Experimental Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2811	Family Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	40.1003	Fine Arts Studio Arts Management.	3	Arts, Audio/Video Technology & Communicat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	43.0202	Fire Services Administration.	12	Law, Public Safety, Corrections & Security	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2812	Forensic Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	52.0702	Franchising and Franchise Operations.	4	Business Management & Administration	1	2
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0702	Geographic Information Science and Cart	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0799	Geography, Other.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0701	Geography.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2805	Genetics.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	31.0302	Golf Course Operation and Grounds Mana	1	Agriculture, Food & Natural Resources	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2810	Health/Medical Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	54.0104	History and Philosophy of Science and Te	15	Science, Technology, Engineering & Mathemat	0	0

Table 7 SOC_CIP XWalk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clstrs Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Clstr*	CrossWalk Rel Strength**
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	54.0101	History, General.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	54.0199	History, Other.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	43.0301	Homeland Security.	12	Law, Public Safety, Corrections & Security	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	52.0999	Hospitality Administration/Management.	9	Hospitality & Tourism	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2804	Industrial and Organizational Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	11.1005	Information Technology Project Manager 11	10	Information Technology	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0605	International Economics.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0901	International Relations and Affairs.	7	Government & Public Administration	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0399	International Relations and National Secu	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	43.0105	Law Enforcement Record-keeping and Ev	12	Law, Public Safety, Corrections & Security	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	25.0101	Library and Information Science.	5	Education & Training	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0203	Medical Anthropology.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	54.0108	Military History.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0902	National Security Policy Studies.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	03.0207	Natural Resource Recreation and Tourism 1	4	Agriculture, Food & Natural Resources	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	52.0206	Non-Profit/Public/Organizational Manager 4	4	Business Management & Administration	1	2
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	31.0399	Parks, Recreation and Leisure Facilities M	9	Hospitality & Tourism	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2705	Personality Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0202	Physical and Biological Anthropology.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2706	Physiological Psychology/Psychobiology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.1004	Political Economy.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.1001	Political Science and Government, Genera	7	Government & Public Administration	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.1099	Political Science and Government, Other.	7	Government & Public Administration	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	52.0399	Project Management.	4	Business Management & Administration	0	2
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.0101	Psychology, General.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.9999	Psychology, Other.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2708	Psychometrics and Quantitative Psycholo	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2709	Psychopharmacology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	44.0401	Public Administration.	7	Government & Public Administration	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	54.0105	Public/Applied History.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	52.0210	Research and Development Management. 4	4	Business Management & Administration	1	2
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	52.0399	Research and Development Management. 4	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0102	Research Methodology and Quantitative	115	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.1401	Rural Sociology.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2805	School Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	52.0703	Small Business Administration/Manageme	4	Business Management & Administration	1	2
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	42.2707	Social Psychology.	10	Human Services	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.0101	Social Sciences, General.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.9199	Social Sciences, Other.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.1301	Sociology and Anthropology.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.1101	Sociology.	15	Science, Technology, Engineering & Mathemat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	52.2101	Telecommunications Management.	4	Business Management & Administration	1	2
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	43.0304	Terrorism and Counterterrorism Operatio	12	Law, Public Safety, Corrections & Security	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	50.1004	Theatre/Theatre Arts Management.	3	Arts, Audio/Video Technology & Communicat	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	52.0903	Tourism and Travel Services Management	9	Hospitality & Tourism	0	0
11-9199	Managers, All Other	4.1	General Management	4	Business Management & Administration	45.1101	Urban Studies/Affairs.	7	Government & Public Administration	0	0
11-1011	Chief Executives	4.1	General Management	4	Business Management & Administration	52.0201	Business Administration and Management 4	4	Business Management & Administration	1	2
11-1011	Chief Executives	4.1	General Management	4	Business Management & Administration	52.0101	Business/Commerce, General.	4	Business Management & Administration	1	2
11-1011	Chief Executives	4.1	General Management	4	Business Management & Administration	52.0701	Entrepreneurship/Entrepreneurial Studies 4	4	Business Management & Administration	1	2
11-1011	Chief Executives	4.1	General Management	4	Business Management & Administration	52.0801	Finance, General.	6	Finance	0	0
11-1011	Chief Executives	4.1	General Management	4	Business Management & Administration	52.1101	International Business/Trade/Commerce. 4	4	Business Management & Administration	1	2
11-1011	Chief Executives	4.1	General Management	4	Business Management & Administration	52.1301	Management Science.	4	Business Management & Administration	1	2
11-1011	Chief Executives	4.1	General Management	4	Business Management & Administration	44.0401	Public Administration.	7	Government & Public Administration	0	0
11-1021	General and Operations Managers	4.1	General Management	4	Business Management & Administration	52.0101	Business Administration and Management 4	4	Business Management & Administration	0	0
11-1021	General and Operations Managers	4.1	General Management	4	Business Management & Administration	52.0101	Business/Commerce, General.	4	Business Management & Administration	1	2
11-1021	General and Operations Managers	4.1	General Management	4	Business Management & Administration	52.0701	Entrepreneurship/Entrepreneurial Studies 4	4	Business Management & Administration	1	2
11-1021	General and Operations Managers	4.1	General Management	4	Business Management & Administration	52.0801	Finance, General.	6	Finance	0	0
11-1021	General and Operations Managers	4.1	General Management	4	Business Management & Administration	52.1101	International Business/Trade/Commerce. 4	4	Business Management & Administration	1	2
11-1021	General and Operations Managers	4.1	General Management	4	Business Management & Administration	52.1301	Management Science.	4	Business Management & Administration	1	2
11-1021	General and Operations Managers	4.1	General Management	4	Business Management & Administration	31.0399	Parks, Recreation and Leisure Facilities M	9	Hospitality & Tourism	0	0
11-1021	General and Operations Managers	4.1	General Management	4	Business Management & Administration	44.0401	Public Administration.	7	Government & Public Administration	0	0
11-1021	General and Operations Managers	4.1	General Management	4	Business Management & Administration	52.0212	Retail Management.	4	Business Management & Administration	1	2
11-3021	Computer and Information Systems Managers	4.2	Business Information Management	4	Business Management & Administration	11.0101	Computer and Information Sciences, Gen	11	Information Technology	0	0
11-3021	Computer and Information Systems Managers	4.2	Business Information Management	4	Business Management & Administration	11.1003	Computer and Information Systems Secu	11	Information Technology	0	1
11-3021	Computer and Information Systems Managers	4.2	Business Information Management	4	Business Management & Administration	11.0701	Computer Science.	11	Information Technology	0	0
11-3021	Computer and Information Systems Managers	4.2	Business Information Management	4	Business Management & Administration	52.1206	Information Resources Management.	11	Information Technology	0	0
11-3021	Computer and Information Systems Managers	4.2	Business Information Management	4	Business Management & Administration	11.0401	Information Science/Studies.	11	Information Technology	0	1
11-3021	Computer and Information Systems Managers	4.2	Business Information Management	4	Business Management & Administration	11.1005	Information Technology Project Manager 11	11	Information Technology	0	1
11-3021	Computer and Information Systems Managers	4.2	Business Information Management	4	Business Management & Administration	11.0103	Information Technology.	11	Information Technology	0	0
11-3021	Computer and Information Systems Managers	4.2	Business Information Management	4	Business Management & Administration	52.1207	Knowledge Management.	11	Information Technology	0	1
11-3021	Computer and Information Systems Managers	4.2	Business Information Management	4	Business Management & Administration	52.1201	Management Information Systems, Gener	4	Business Management & Administration	1	2
11-3021	Computer and Information Systems Managers	4.2	Business Information Management	4	Business Management & Administration	11.1001	Network and System Administration/Adn	11	Information Technology	0	1
11-3021	Computer and Information Systems Managers	4.2	Business Information Management	4	Business Management & Administration	52.0205	Operations Management and Supervision. 4	4	Business Management & Administration	1	2
11-3111	Compensation and Benefits Managers	4.3	Human Resources Management	4	Business Management & Administration	52.1001	Human Resources Management/Personne	4	Business Management & Administration	1	2
11-3121	Human Resources Managers	4.3	Human Resources Management	4	Business Management & Administration	52.1001	Human Resources Management/Personne	4	Business Management & Administration	1	2
11-3121	Human Resources Specialists	4.3	Human Resources Management	4	Business Management & Administration	52.1002	Human Resources Management/Personne	4	Business Management & Administration	1	2
11-3131	Training and Development Managers	4.3	Human Resources Management	4	Business Management & Administration	52.1001	Human Resources Management/Personne	4	Business Management & Administration	1	2
13-1071	Human Resources Specialists	4.3	Human Resources Management	4	Business Management & Administration	52.1099	Human Resources Management and Servi	4	Business Management & Administration	1	2
13-1071	Human Resources Specialists	4.3	Human Resources Management	4	Business Management & Administration	52.1001	Human Resources Management/Personne	4	Business Management & Administration	1	2
13-1071	Human Resources Specialists	4.3	Human Resources Management	4	Business Management & Administration	52.1003	Organizational Behavior Studies.	4	Business Management & Administration	1	2
13-1075	Labor Relations Specialists	4.3	Human Resources Management	4	Business Management & Administration	30.2801	Dispute Resolution.	15	Science, Technology, Engineering & Mathemat	0	1
13-1075	Labor Relations Specialists	4.3	Human Resources Management	4	Business Management & Administration	52.1001	Human Resources Management/Personne	4	Business Management & Administration	1	2
13-1075	Labor Relations Specialists	4.3	Human Resources Management	4	Business Management & Administration	52.1002	Human Resources Management/Personne	4	Business Management & Administration	1	2
13-1075	Labor Relations Specialists	4.3	Human Resources Management	4	Business Management & Administration	52.1004	Labor Studies.	4	Business Management & Administration	1	2
13-1141	Compensation, Benefits, and Job Analysis Specialists	4.3	Human Resources Management	4	Business Management & Administration	52.1001	Human Resources Management/Personne	4	Business Management & Administration	1	2
13-1151	Training and Development Specialists	4.3	Human Resources Management	4	Business Management & Administration	52.1005	Human Resources Development.	4	Business Management & Administration	1	2
13-1151	Training and Development Specialists	4.3	Human Resources Management	4	Business Management & Administration	52.1001	Human Resources Management/Personne	4	Business Management & Administration	1	2
11-3011	Administrative Services Managers	4.4	Operations Management	4	Business Management & Administration	52.0201	Business Administration and Management	4	Business Management & Administration	1	2
11-3011	Administrative Services Managers	4.4	Operations Management	4	Business Management & Administration	52.0101	Business/Commerce, General.	4	Business Management & Administration	1	2
11-3011	Administrative Services Managers	4.4	Operations Management	4	Business Management & Administration	52.0101	Business/Commerce, General.	4	Business Management & Administration	0	2
11-3011	Administrative Services Managers	4.4	Operations Management	4	Business Management & Administration	52.0202	Medical/Health Management and Clinical	8	Health Science	0	2
11-3051	Industrial Production Managers	4.4	Operations Management	4	Business Management & Administration	52.0202	Purchasing, Procurement/Acquisitions an	4	Business Management & Administration	1	2
11-3051	Industrial Production Managers	4.4	Operations Management	4	Business Management & Administration	52.0201	Business Administration and Management	4	Business Management & Administration	1	2
11-3051	Industrial Production Managers	4.4	Operations Management	4	Business Management & Administration	52.0101	Business/Commerce, General.	4	Business Management & Administration	1	2

Table 7 SOC_CIP Walk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clstrs Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Clstr*	CrossWalk Rel Strength**
11-3051	Industrial Production Managers	4.4	Operations Management	4	Business Management & Administration	15.1501	Engineering/Industrial Management.	15	Science, Technology, Engineering & Mathematics	0	1
11-3051	Industrial Production Managers	4.4	Operations Management	4	Business Management & Administration	14.3501	Industrial Engineering.	15	Science, Technology, Engineering & Mathematics	0	1
11-3051	Industrial Production Managers	4.4	Operations Management	4	Business Management & Administration	52.0203	Logistics, Materials, and Supply Chain M	16	Transportation, Distribution & Logistics	0	1
11-3051	Industrial Production Managers	4.4	Operations Management	4	Business Management & Administration	52.0205	Operations Management and Supervision. 4		Business Management & Administration	1	2
11-3061	Purchasing Managers	4.4	Operations Management	4	Business Management & Administration	52.0202	Purchasing, Procurement/Acquisitions an	4	Business Management & Administration	1	2
13-1111	Management Analysts	4.4	Operations Management	4	Business Management & Administration	52.0201	Business Administration and Management 4	4	Business Management & Administration	1	2
13-1111	Management Analysts	4.4	Operations Management	4	Business Management & Administration	52.0101	Business/Commerce, General.	4	Business Management & Administration	1	2
13-1111	Management Analysts	4.4	Operations Management	4	Business Management & Administration	52.0213	Organizational Leadership.	4	Business Management & Administration	1	2
13-1121	Meeting, Convention, and Event Planners	4.4	Operations Management	4	Business Management & Administration	19.0604	Facilities Planning and Management.	4	Business Management & Administration	1	2
13-1121	Meeting, Convention, and Event Planners	4.4	Operations Management	4	Business Management & Administration	52.0907	Meeting and Event Planning.	4	Business Management & Administration	1	2
15-2031	Operations Research Analysts	4.4	Operations Management	4	Business Management & Administration	52.1301	Operations Science.	4	Business Management & Administration	1	2
15-2031	Operations Research Analysts	4.4	Operations Management	4	Business Management & Administration	14.3701	Operations Research.	4	Business Management & Administration	1	2
43-1011	First-Line Supervisors of Office and Administrative Support Workers	4.5	Administrative Support	4	Business Management & Administration	01.0106	Agricultural Business Technology.	1	Agriculture, Food & Natural Resources	0	1
43-1011	First-Line Supervisors of Office and Administrative Support Workers	4.5	Administrative Support	4	Business Management & Administration	52.0207	Customer Service Management.	4	Business Management & Administration	1	2
43-1011	First-Line Supervisors of Office and Administrative Support Workers	4.5	Administrative Support	4	Business Management & Administration	52.0208	E-Commerce/Electronic Commerce.	4	Business Management & Administration	1	2
43-1011	First-Line Supervisors of Office and Administrative Support Workers	4.5	Administrative Support	4	Business Management & Administration	51.0705	Medical Office Management/Administrati	8	Health Science	0	1
43-1011	First-Line Supervisors of Office and Administrative Support Workers	4.5	Administrative Support	4	Business Management & Administration	51.0711	Medical/Health Management and Clinical	8	Health Science	0	1
43-1011	First-Line Supervisors of Office and Administrative Support Workers	4.5	Administrative Support	4	Business Management & Administration	52.0204	Office Management and Supervision.	4	Business Management & Administration	1	2
43-3031	Bookkeeping, Accounting, and Auditing Clerks	4.5	Administrative Support	4	Business Management & Administration	52.0302	Accounting Technology/Technician and	6	Finance	0	1
43-3051	Payroll and Timekeeping Clerks	4.5	Administrative Support	4	Business Management & Administration	52.0302	Accounting Technology/Technician and	6	Finance	0	1
43-3061	Procurement Clerks	4.5	Administrative Support	4	Business Management & Administration	52.0408	General Office Occupations and Clerical	5	Business Management & Administration	1	2
43-4051	Customer Service Representatives	4.5	Administrative Support	4	Business Management & Administration	52.0411	Customer Service Support/Call Center/T	4	Business Management & Administration	1	2
43-4051	Customer Service Representatives	4.5	Administrative Support	4	Business Management & Administration	52.0406	Receptionist.	4	Business Management & Administration	1	2
43-4141	New Accounts Clerks	4.5	Administrative Support	4	Business Management & Administration	52.0503	Banking and Financial Support Services.	6	Finance	0	1
43-4171	Receptionists and Information Clerks	4.5	Administrative Support	4	Business Management & Administration	52.0406	Receptionist.	4	Business Management & Administration	1	2
43-6011	Executive Secretaries and Executive Administrative Assistants	4.5	Administrative Support	4	Business Management & Administration	52.0401	Administrative Assistant and Secretarial	14	Business Management & Administration	1	2
43-6011	Executive Secretaries and Executive Administrative Assistants	4.5	Administrative Support	4	Business Management & Administration	52.0402	Executive Assistant/Executive Secretary.	4	Business Management & Administration	1	2
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executiv	4.5	Administrative Support	4	Business Management & Administration	52.0401	Administrative Assistant and Secretarial	14	Business Management & Administration	1	2
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executiv	4.5	Administrative Support	4	Business Management & Administration	52.0402	Executive Assistant/Executive Secretary.	4	Business Management & Administration	1	2
43-9011	Computer Operators	4.5	Administrative Support	4	Business Management & Administration	11.0301	Data Processing and Data Processing Tec	1	Information Technology	0	1
43-9021	Data Entry Keyers	4.5	Administrative Support	4	Business Management & Administration	52.0407	Business/Office Automation/Technology.	4	Business Management & Administration	1	2
43-9039	Education Administrators, Preschool and Childcare Center/Program	5.1	Administration and Administrative Support	5	Education & Training	11.0409	Business Administration and Applications	14	Business Management & Administration	1	2
43-9021	Data Entry Keyers	4.5	Administrative Support	4	Business Management & Administration	10.0305	Graphic and Printing Equipment Operator.	3	Arts, Audio/Video Technology & Communicati	0	1
43-9022	Word Processors and Typists	4.5	Administrative Support	4	Business Management & Administration	52.0408	General Office Occupations and Clerical	5	Business Management & Administration	1	2
43-9022	Word Processors and Typists	4.5	Administrative Support	4	Business Management & Administration	11.0602	Word Processing.	4	Business Management & Administration	1	2
43-9061	Office Clerks, General	4.5	Administrative Support	4	Business Management & Administration	52.0408	General Office Occupations and Clerical	5	Business Management & Administration	1	2
11-9031	Education Administrators, Preschool and Childcare Center/Program	5.1	Administration and Administrative Support	5	Education & Training	13.0401	Educational Leadership and Administrati	5	Education & Training	1	2
11-9031	Education Administrators, Preschool and Childcare Center/Program	5.1	Administration and Administrative Support	5	Education & Training	13.0404	Educational, Instructional, and Curriculum	5	Education & Training	1	2
11-9032	Education Administrators, Elementary and Secondary School	5.1	Administration and Administrative Support	5	Education & Training	13.0401	Educational Leadership and Administrati	5	Education & Training	1	2
11-9032	Education Administrators, Elementary and Secondary School	5.1	Administration and Administrative Support	5	Education & Training	13.0404	Educational, Instructional, and Curriculum	5	Education & Training	1	2
11-9032	Education Administrators, Elementary and Secondary School	5.1	Administration and Administrative Support	5	Education & Training	13.0408	Elementary and Middle School Administr	5	Education & Training	1	2
11-9032	Education Administrators, Elementary and Secondary School	5.1	Administration and Administrative Support	5	Education & Training	13.0409	Secondary School Administration/Princip	5	Education & Training	1	2
11-9032	Education Administrators, Elementary and Secondary School	5.1	Administration and Administrative Support	5	Education & Training	13.0411	Superintendency and Educational System	5	Education & Training	1	2
11-9033	Education Administrators, Postsecondary	5.1	Administration and Administrative Support	5	Education & Training	13.0407	Community College Education.	5	Education & Training	1	2
11-9033	Education Administrators, Postsecondary	5.1	Administration and Administrative Support	5	Education & Training	13.0404	Educational Leadership and Administrati	5	Education & Training	1	2
11-9033	Education Administrators, Postsecondary	5.1	Administration and Administrative Support	5	Education & Training	13.0404	Educational, Instructional, and Curriculum	5	Education & Training	1	2
11-9033	Education Administrators, Postsecondary	5.1	Administration and Administrative Support	5	Education & Training	13.0406	Higher Education/Higher Education Adm	5	Education & Training	1	2
11-9039	Education Administrators, All Other	5.1	Administration and Administrative Support	5	Education & Training	13.0402	Administration of Special Education.	5	Education & Training	1	2
11-9039	Education Administrators, All Other	5.1	Administration and Administrative Support	5	Education & Training	13.0403	Adult and Continuing Education Administ	5	Education & Training	1	2
11-9039	Education Administrators, All Other	5.1	Administration and Administrative Support	5	Education & Training	13.0499	Educational Administration and Supervisi	5	Education & Training	1	2
11-9039	Education Administrators, All Other	5.1	Administration and Administrative Support	5	Education & Training	13.0401	Educational Leadership and Administrati	5	Education & Training	1	2
11-9039	Education Administrators, All Other	5.1	Administration and Administrative Support	5	Education & Training	13.0404	Educational, Instructional, and Curriculum	5	Education & Training	1	2
11-9039	Education Administrators, All Other	5.1	Administration and Administrative Support	5	Education & Training	13.0409	Secondary School Administration/Princip	5	Education & Training	1	2
11-9039	Education Administrators, All Other	5.1	Administration and Administrative Support	5	Education & Training	13.0411	Superintendency and Educational System	5	Education & Training	1	2
11-9039	Education Administrators, All Other	5.1	Administration and Administrative Support	5	Education & Training	13.0410	Urban Education and Leadership.	5	Education & Training	1	2
21-1012	Educational, Guidance, School, and Vocational Counselors	5.2	Professional Support Services	5	Education & Training	13.1102	College Student Counseling and Personne	5	Education & Training	1	2
21-1012	Educational, Guidance, School, and Vocational Counselors	5.2	Professional Support Services	5	Education & Training	13.1101	Counselor Education/School Counseling a	5	Education & Training	1	2
21-1012	Educational, Guidance, School, and Vocational Counselors	5.2	Professional Support Services	5	Education & Training	13.1199	Student Counseling and Personnel Servic	5	Education & Training	1	2
25-4011	Archivists	5.2	Professional Support Services	5	Education & Training	25.0103	Archives/Archival Administration.	5	Education & Training	1	2
25-4011	Archivists	5.2	Professional Support Services	5	Education & Training	50.0703	Art History, Criticism and Conservation.	3	Arts, Audio/Video Technology & Communicati	0	1
25-4011	Archivists	5.2	Professional Support Services	5	Education & Training	30.1202	Cultural Resource Management and Polic	15	Science, Technology, Engineering & Mathemat	0	1
25-4011	Archivists	5.2	Professional Support Services	5	Education & Training	30.1299	Historic Preservation and Conservation, C	15	Science, Technology, Engineering & Mathemat	0	1
25-4011	Archivists	5.2	Professional Support Services	5	Education & Training	30.1201	Historic Preservation and Conservation.	15	Science, Technology, Engineering & Mathemat	0	1
25-4011	Archivists	5.2	Professional Support Services	5	Education & Training	30.1401	Museology/Museum Studies.	3	Arts, Audio/Video Technology & Communicati	0	1
25-4011	Archivists	5.2	Professional Support Services	5	Education & Training	54.0105	Public/Applied History.	15	Science, Technology, Engineering & Mathemat	0	1
25-4012	Curators	5.2	Professional Support Services	5	Education & Training	50.0703	Art History, Criticism and Conservation.	3	Arts, Audio/Video Technology & Communicati	0	1
25-4012	Curators	5.2	Professional Support Services	5	Education & Training	30.1401	Museology/Museum Studies.	3	Arts, Audio/Video Technology & Communicati	0	1
25-4012	Curators	5.2	Professional Support Services	5	Education & Training	54.0105	Public/Applied History.	15	Science, Technology, Engineering & Mathemat	0	1
25-4013	Museum Technicians and Conservators	5.2	Professional Support Services	5	Education & Training	50.0703	Art History, Criticism and Conservation.	3	Arts, Audio/Video Technology & Communicati	0	1
25-4013	Museum Technicians and Conservators	5.2	Professional Support Services	5	Education & Training	30.1401	Museology/Museum Studies.	3	Arts, Audio/Video Technology & Communicati	0	1
25-4013	Museum Technicians and Conservators	5.2	Professional Support Services	5	Education & Training	54.0105	Public/Applied History.	15	Science, Technology, Engineering & Mathemat	0	1
25-4021	Librarians	5.2	Professional Support Services	5	Education & Training	25.0102	Children and Youth Library Services.	5	Education & Training	1	2
25-4021	Librarians	5.2	Professional Support Services	5	Education & Training	25.0101	Library and Information Science.	5	Education & Training	1	2
25-4021	Librarians	5.2	Professional Support Services	5	Education & Training	25.0199	Library Science and Administration, Othe	5	Education & Training	1	2
25-4021	Librarians	5.2	Professional Support Services	5	Education & Training	13.1304	School Librarian/School Library Media Sp	5	Education & Training	1	2
25-4031	Library Technicians	5.2	Professional Support Services	5	Education & Training	25.0301	Library and Archives Assisting.	5	Education & Training	1	2
25-9011	Audio-Visual and Multimedia Collections Specialists	5.2	Professional Support Services	5	Education & Training	13.0501	Educational/Instructional Technology.	5	Education & Training	1	2
25-9031	Instructional Coordinators	5.2	Professional Support Services	5	Education & Training	13.0301	Curriculum and Instruction.	5	Education & Training	1	2
25-9031	Instructional Coordinators	5.2	Professional Support Services	5	Education & Training	13.0501	Educational/Instructional Technology.	5	Education & Training	1	2
27-3091	Interpreters and Translators	5.2	Professional Support Services	5	Education & Training	16.0201	African Languages, Literatures, and Ling	5	Education & Training	1	2
27-3091	Interpreters and Translators	5.2	Professional Support Services	5	Education & Training	16.0404	Albanian Language and Literature.	5	Education & Training	1	2
27-3091	Interpreters and Translators	5.2	Professional Support Services	5	Education & Training	16.1001	American Indian/Alaskan/Northern Ameri	5	Education & Training	1	2
27-3091	Interpreters and Translators	5.2	Professional Support Services	5	Education & Training	16.1601	American Sign Language (ASL).	5	Education & Training	1	2
27-3091	Interpreters and Translators	5.2	Professional Support Services	5	Education & Training	16.1699	American Sign Language, Other.	5	Education & Training	1	2
27-3091	Interpreters and Translators	5.2	Professional Support Services	5	Education & Training	16.1103	Ancient Near Eastern and Biblical Langua	5	Education & Training	1	2
27-3091	Interpreters and Translators	5.2	Professional Support Services	5	Education & Training	16.1202	Ancient/Classical Greek Language and Lit	5	Education & Training	1	2
27-3091	Interpreters and Translators	5.2	Professional Support Services	5	Education & Training	16.0105	Applied Linguistics.	5	Education & Training	1	2
27-3091	Interpreters and Translators	5.2	Professional Support Services	5	Education & Training	16.1101	Arabic Language and Literature.	5	Education & Training	1	2
27-3091	Interpreters and Translators	5.2	Professional Support Services	5	Education & Training	16.1401	Australian/Oceanic/Pacific Languages, Lit	5	Education & Training	1	2
27-3091	Interpreters and Translators	5.2	Professional Support Services	5	Education & Training	16.0401	Baltic Languages, Literatures, and Lingui	5	Education & Training	1	2
27-3091	Interpreters and Translators	5.2	Professional Support Services	5	Education & Training	16.0704	Bengali Language and Literature.	5	Education & Training	1	2
27-3091	Interpreters and Translators	5.2	Professional Support Services	5	Education & Training	16.0408	Bosnian, Serbian, and Croatian Language	5	Education & Training	1	2

Table 7 SOC_CIP Walk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clusters Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Cstr*	CrossWalk Rel Strength**
25-1069	Social Sciences Teachers, Postsecondary, All Other	5.3	Teaching/Training	5	Education & Training	04.0301	City/Urban, Community and Regional Plan	7	Government & Public Administration	0	0
25-1069	Social Sciences Teachers, Postsecondary, All Other	5.3	Teaching/Training	5	Education & Training	30.2701	Human Biology.	15	Science, Technology, Engineering & Mathematics	0	0
25-1069	Social Sciences Teachers, Postsecondary, All Other	5.3	Teaching/Training	5	Education & Training	13.0607	Learning Sciences.	5	Education & Training	0	2
25-1069	Social Sciences Teachers, Postsecondary, All Other	5.3	Teaching/Training	5	Education & Training	04.1001	Real Estate Development.	2	Architecture & Construction	0	0
25-1069	Social Sciences Teachers, Postsecondary, All Other	5.3	Teaching/Training	5	Education & Training	45.0102	Research Methodology and Quantitative Learning Sciences.	115	Science, Technology, Engineering & Mathematics	0	0
25-1069	Social Sciences Teachers, Postsecondary, All Other	5.3	Teaching/Training	5	Education & Training	45.1401	Rural Sociology.	15	Science, Technology, Engineering & Mathematics	0	0
25-1069	Social Sciences Teachers, Postsecondary, All Other	5.3	Teaching/Training	5	Education & Training	13.1317	Social Science Teacher Education.	5	Education & Training	1	2
25-1069	Social Sciences Teachers, Postsecondary, All Other	5.3	Teaching/Training	5	Education & Training	45.0101	Social Sciences, General.	15	Science, Technology, Engineering & Mathematics	0	0
25-1069	Social Sciences Teachers, Postsecondary, All Other	5.3	Teaching/Training	5	Education & Training	45.1201	Urban Studies/Affairs.	7	Government & Public Administration	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2313	Animal-Assisted Therapy.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2301	Art Therapy/Therapist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3502	Asian Bodywork Therapy.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0204	Audiology/Audiologist and Speech-Language Pathology/Audiologist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0202	Audiology/Audiologist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2212	Behavioral Aspects of Health.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	26.1102	Biostatistics.	15	Science, Technology, Engineering & Mathematics	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.1001	Blood Bank Technology Specialist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0901	Cardiovascular Technology/Technologist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0101	Chiropractic.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.1005	Clinical Laboratory Science/Medical Technology/Medical Laboratory Assistant.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0802	Clinical/Medical Laboratory Assistant.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.1004	Clinical/Medical Laboratory Technician.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0201	Communication Sciences and Disorders.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.1016	Cybertechnology/Cybertechnologist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2302	Animal Therapist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0601	Dental Assisting/Assistant.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0501	Dental Clinical Sciences, General.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0602	Dental Hygiene/Hygienist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0603	Dental Laboratory Technology/Technician.	13	Manufacturing	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0401	Dentistry.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0910	Diagnostic Medical Sonography/Sonographer.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0209	Dental Radiology Technology/Technician.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0903	Electroneurodiagnostic/Electroencephalography Technician.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0904	Emergency Medical Technology/Technician.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2202	Environmental Health.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	26.1309	Epidemiology.	15	Science, Technology, Engineering & Mathematics	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1327	Health Occupations Teacher Education.	5	Education & Training	1	2
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	44.0503	Health Policy Analysis.	7	Government & Public Administration	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2101	Health/Medical Physics.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.1003	Hematology Technology/Technician.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3603	Hypnotherapy/Hypnotherapist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3501	Massage Therapy/Therapeutic Massage.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0907	Medical Radiologic Technology/Science - Radiation Therapy.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2305	Music Therapy/Therapist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0905	Nuclear Medical Technology/Technologist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2206	Occupational Health and Industrial Hygiene.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0803	Occupational Therapy/Therapist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2306	Occupational Therapy/Therapist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2307	Orthotist/Prosthetist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0906	Perfusion Technology/Perfusionist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	26.1099	Pharmacology and Toxicology, Other.	15	Science, Technology, Engineering & Mathematics	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2002	Pharmacy Administration and Pharmacy Technician/Assistant.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0805	Pharmacy Technician/Assistant.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2099	Pharmacy, Pharmaceutical Sciences, and Biotechnology.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2001	Pharmacy.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2308	Physical Therapy/Therapist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0912	Physician Assistant.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	26.0999	Physiology, Pathology, and Related Sciences.	15	Science, Technology, Engineering & Mathematics	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2207	Public Health Education and Promotion.	5	Education & Training	1	2
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2201	Public Health, General.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2314	Rehabilitation Science.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0908	Respiratory Care Therapy/Therapist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0203	Speech-Language Pathology/Pathologist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0909	Surgical Technology/Technologist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2309	Therapeutic Recreation/Recreational Therapist.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2401	Veterinary Medicine.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2501	Veterinary Sciences/Veterinary Clinical Science.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.0808	Veterinary/Animal Health Technology/Technician.	8	Health Science	0	0
25-1071	Health Specialties Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.2310	Vocational Rehabilitation Counseling/Counselor.	10	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3803	Adult Health Nurse/Nursing.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3813	Clinical Nurse Specialist.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3816	Emergency Room/Trauma Nursing.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3805	Family Practice Nurse/Nursing.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3821	Geriatric Nurse/Nursing.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3806	Maternal/Child Health and Neonatal Nurse/Nursing.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3809	Nurse Anesthetist.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3807	Nurse Midwife/Nursing Midwifery.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3817	Nursing Education.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3808	Nursing Science.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3819	Palliative Care Nursing.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3809	Pediatric Nurse/Nursing.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3812	Perioperative/Operating Room and Surgical Nurse/Nursing.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3811	Psychiatric Mental Health Nurse/Nursing.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3811	Public Health/Community Nurse/Nursing.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3899	Registered Nursing, Nursing Administration, and Nursing Education.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3801	Registered Nursing/Registered Nurse.	8	Health Science	0	0
25-1072	Nursing Instructors and Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.3822	Women's Health Nurse/Nursing.	8	Health Science	0	0
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1301	Agricultural Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1302	Art Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1322	Biology Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1303	Business Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1323	Chemistry Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1321	Computer Teacher Education.	5	Education & Training	1	2

Table 7 SOC_CIP Walk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Clstr No	Career Clusters Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Clstr*	CrossWalk Rel Strength**
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1324	Drama and Dance Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1304	Driver and Safety Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1337	Earth Science Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	44.0502	Education Policy Analysis.	5	Government & Public Administration	0	0
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.0101	Education, General.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1305	English/Language Arts Teacher Education	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1308	Family and Consumer Sciences/Home Ec	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1306	Foreign Language Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1325	French Language Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1332	Geography Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1326	German Language Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1307	Health Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1328	History Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.0607	Learning Sciences.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1311	Mathematics Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1312	Music Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1314	Physical Education Teaching and Coaching	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1329	Physics Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1315	Reading Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1310	Sales and Marketing Operations/Marketin	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1316	Science Teacher Education/General Scien	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1317	Social Science Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1318	Social Studies Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1330	Spanish Language Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1332	Spanish Language Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1319	Technical Teacher Education.	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1309	Technology Teacher Education/Industrial	5	Education & Training	1	2
25-1081	Education Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1320	Trade and Industrial Teacher Education.	5	Education & Training	1	2
25-1082	Library Science Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	25.0102	Children and Youth Library Services.	5	Education & Training	1	2
25-1082	Library Science Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	25.0101	Library and Information Science.	5	Education & Training	1	2
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0113	Corrections Administration.	12	Law, Public Safety, Corrections & Security	0	0
25-1112	Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0139	Corrections and Criminal Justice, Other.	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0102	Corrections.	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0103	Criminal Justice/Law Enforcement Admin	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0107	Criminal Justice/Police Science.	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0104	Criminal Justice/Safety Studies.	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0111	Criminologists and Criminal Science.	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0119	Critical Incident Response/Special Police	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0115	Cultural/Archaeological Resources Protect	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0116	Cyber/Computer Forensics and Countert	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0117	Financial Forensics and Fraud Investigatio	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0106	Forensic Science and Technology.	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0110	Juvenile Corrections.	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0118	Law Enforcement Intelligence Analysis.	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0114	Law Enforcement Investigation and Inten	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0115	Law Enforcement Records-Keeping and Ev	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0122	Maritime Law Enforcement.	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0120	Protective Services Operations.	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0109	Security and Loss Prevention Services.	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0121	Suspension and Debarment Investigation.	12	Law, Public Safety, Corrections & Security	0	0
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	43.0304	Terrorism and Counterterrorism Operatio	12	Law, Public Safety, Corrections & Security	0	0
25-1112	Law Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	22.0212	Intellectual Property Law.	12	Law, Public Safety, Corrections & Security	0	0
25-1112	Law Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	22.0101	Law.	12	Law, Public Safety, Corrections & Security	0	0
25-1112	Law Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	22.0009	Legal Studies, General.	12	Law, Public Safety, Corrections & Security	0	0
25-1113	Social Work Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	51.1503	Clinical/Medical Social Work.	10	Human Services	0	0
25-1113	Social Work Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	44.0799	Social Work, Other.	10	Human Services	0	0
25-1113	Social Work Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	44.0701	Social Work.	10	Human Services	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0703	Art History, Criticism and Conservation.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1302	Art Teacher Education.	5	Education & Training	1	2
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0701	Art/Art Studies, General.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.1099	Arts, Entertainment, and Media Managem	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.1001	Arts, Entertainment, and Media Managem	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0302	Ballet.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0914	Brass Instruments.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0711	Ceramic Arts and Ceramics.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0602	Cinematography and Film/Video Product	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0406	Commercial Photography.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0906	Conducting.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0510	Costume Design.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0201	Crafts/Craft Design, Folk Art and Artisan	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0301	Dance, General.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0399	Dance, Other.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0401	Design and Visual Communications, Gene	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0102	Digital Arts.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0507	Directing and Theatrical Production.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0607	Documentary Production.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	13.1324	Drama and Dance Teacher Education.	5	Education & Training	1	2
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0501	Drama and Dramatics/Theatre Arts, Gene	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0599	Dramatic/Theatre Arts and Stagecraft, O	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0407	Fashion/Apparel Design.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0712	Fiber, Textile and Weaving Arts.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0601	Film/Cinema/Video Studies.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0910	Fine and Studio Arts, Other.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.1002	Fine and Studio Arts Management.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0799	Fine Arts and Art Studies, Other.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0702	Fine/Studio Arts, General.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0409	Graphic Design.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0404	Industrial and Product Design.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0706	Intermedia/Multimedia.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0910	Jazz/Jazz Studies.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0907	Keyboard Instruments.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0713	Metal and Jewelry Arts.	3	Arts, Audio/Video Technology & Communicatio	0	0
25-1121	Art, Drama, and Music Teachers, Postsecondary	5.3	Teaching/Training	5	Education & Training	50.0902	Music History, Literature, and Theory.	3	Arts, Audio/Video Technology & Communicatio	0	0

Table 7 SOC_CIP Walk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clusters Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Cstr*	CrossWalk Rel Strength**
25-2059	Special Education Teachers, All Other	5.3	Teaching/Training	5	Education & Training	13.1007	Education/Teaching of Individuals with M	5	Education & Training	1	2
25-2059	Special Education Teachers, All Other	5.3	Teaching/Training	5	Education & Training	13.1008	Education/Teaching of Individuals with O	5	Education & Training	1	2
25-2059	Special Education Teachers, All Other	5.3	Teaching/Training	5	Education & Training	13.1011	Education/Teaching of Individuals with S	5	Education & Training	1	2
25-2059	Special Education Teachers, All Other	5.3	Teaching/Training	5	Education & Training	13.1012	Education/Teaching of Individuals with Sr	5	Education & Training	1	2
25-2059	Special Education Teachers, All Other	5.3	Teaching/Training	5	Education & Training	13.1016	Education/Teaching of Individuals with Tr	5	Education & Training	1	2
25-2059	Special Education Teachers, All Other	5.3	Teaching/Training	5	Education & Training	13.1009	Education/Teaching of Individuals with Vi	5	Education & Training	1	2
25-2059	Special Education Teachers, All Other	5.3	Teaching/Training	5	Education & Training	13.1001	Special Education and Teaching, General.	5	Education & Training	1	2
25-2059	Special Education Teachers, All Other	5.3	Teaching/Training	5	Education & Training	13.1099	Special Education and Teaching, Other.	5	Education & Training	1	2
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	5.3	Teaching/Training	5	Education & Training	13.1201	Adult and Continuing Education and Teac	5	Education & Training	1	2
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	5.3	Teaching/Training	5	Education & Training	13.502	Adult Literacy Tutor/Instructor.	5	Education & Training	1	2
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	5.3	Teaching/Training	5	Education & Training	13.0201	Bilingual and Multilingual Education.	5	Education & Training	1	2
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	5.3	Teaching/Training	5	Education & Training	13.0299	Bilingual, Multilingual, and Multicultural Ed	5	Education & Training	1	2
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	5.3	Teaching/Training	5	Education & Training	13.0202	Multicultural Education.	5	Education & Training	1	2
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	5.3	Teaching/Training	5	Education & Training	13.1401	Teaching English as a Second or Foreign L	5	Education & Training	1	2
25-3021	Self-Enrichment Education Teachers	5.3	Teaching/Training	5	Education & Training	13.1201	Adult and Continuing Education and Teac	5	Education & Training	1	2
25-3099	Teachers and Instructors, All Other	5.3	Teaching/Training	5	Education & Training	13.0201	Bilingual and Multilingual Education.	5	Education & Training	1	2
25-3099	Teachers and Instructors, All Other	5.3	Teaching/Training	5	Education & Training	13.1304	Driver and Safety Teacher Education.	5	Education & Training	1	2
25-3099	Teachers and Instructors, All Other	5.3	Teaching/Training	5	Education & Training	13.0203	Indian/Native American Education.	5	Education & Training	1	2
25-3099	Teachers and Instructors, All Other	5.3	Teaching/Training	5	Education & Training	13.1207	Montessori Teacher Education.	5	Education & Training	1	2
25-3099	Teachers and Instructors, All Other	5.3	Teaching/Training	5	Education & Training	13.0202	Multicultural Education.	5	Education & Training	1	2
25-3099	Teachers and Instructors, All Other	5.3	Teaching/Training	5	Education & Training	13.1208	Waldorf/Steiner Teacher Education.	5	Education & Training	1	2
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	01.0801	Agricultural and Extension Education Sen.	1	Agriculture, Food & Natural Resources	0	1
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	01.0904	Animal Nutrition.	1	Agriculture, Food & Natural Resources	0	1
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	01.0302	Animal/Livestock Husbandry and Product	1	Agriculture, Food & Natural Resources	0	1
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	19.0901	Apparel and Textiles, General.	13	Manufacturing	0	1
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	19.0201	Business Family and Consumer Sciences/	5	Education & Training	1	2
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	19.0706	Child Development.	5	Education & Training	1	2
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	19.0402	Consumer Economics.	5	Education & Training	1	2
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	19.0203	Consumer Merchandising/Retailing Manag	14	Marketing	0	1
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	19.0403	Consumer Services and Advocacy.	5	Education & Training	1	2
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	01.0304	Crop Production.	1	Agriculture, Food & Natural Resources	0	1
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	19.0404	Family and Community Services.	1	Education & Training	1	2
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	19.0499	Family and Consumer Economics and Rel	5	Education & Training	1	2
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	19.0101	Family and Consumer Sciences/Human Sc	5	Education & Training	1	2
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	19.0401	Family Resource Management Studies, Ge	5	Education & Training	1	2
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	19.0704	Family Systems.	5	Education & Training	1	2
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	01.0104	Farm/Farm and Ranch Management.	1	Agriculture, Food & Natural Resources	0	1
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	19.0605	Home Furnishings and Equipment Install	2	Architecture & Construction	0	1
25-9021	Farm and Home Management Advisors	5.3	Teaching/Training	5	Education & Training	19.0904	Housing and Human Environments, Gene	5	Education & Training	1	2
25-9041	Teacher Assistants	5.3	Teaching/Training	5	Education & Training	13.1501	Teacher Assistant/Aide.	5	Education & Training	1	2
25-9099	Education, Training, and Library Workers, All Other	5.3	Teaching/Training	5	Education & Training	13.0607	Learning Sciences.	5	Education & Training	1	2
27-2022	Coaches and Scouts	5.3	Teaching/Training	5	Education & Training	31.0501	Health and Physical Education/Fitness, Gr	5	Education & Training	1	2
27-2022	Coaches and Scouts	5.3	Teaching/Training	5	Education & Training	13.1314	Physical Education Teaching and Coachi	5	Education & Training	1	2
27-2022	Coaches and Scouts	5.3	Teaching/Training	5	Education & Training	31.0504	Sport and Fitness Administration/Manag	5	Education & Training	1	2
13-2052	Personal Financial Advisors	6.1	Securities & Investments	6	Finance	52.0801	Finance, General.	6	Finance	1	2
13-2052	Personal Financial Advisors	6.1	Securities & Investments	6	Finance	52.0806	Financial Planning and Services.	6	Finance	1	2
13-2099	Financial Specialists, All Other	6.1	Securities & Investments	6	Finance	52.0801	Finance, General.	6	Finance	1	2
13-2099	Financial Specialists, All Other	6.1	Securities & Investments	6	Finance	27.0305	Financial Mathematics.	15	Science, Technology, Engineering & Mathemati	0	1
41-3031	Securities, Commodities, and Financial Services Sales Agents	6.1	Securities & Investments	6	Finance	52.1908	Business and Personal/Financial Services	6	Finance	1	2
41-3031	Securities, Commodities, and Financial Services Sales Agents	6.1	Securities & Investments	6	Finance	52.0804	Financial Planning and Services.	6	Finance	1	2
41-3031	Securities, Commodities, and Financial Services Sales Agents	6.1	Securities & Investments	6	Finance	52.0807	Investments and Securities.	6	Finance	1	2
43-4011	Brokerage Clerks	6.1	Securities & Investments	6	Finance	52.0302	Accounting Technology/Technician and B	6	Finance	1	2
11-3031	Financial Managers	6.2	Business Finance	6	Finance	52.0305	Accounting and Business/Management.	6	Finance	1	2
11-3031	Financial Managers	6.2	Business Finance	6	Finance	52.0304	Accounting and Finance.	6	Finance	1	2
11-3031	Financial Managers	6.2	Business Finance	6	Finance	52.0809	Credit Management.	6	Finance	1	2
11-3031	Financial Managers	6.2	Business Finance	6	Finance	52.0899	Finance and Financial Management Servic	6	Finance	1	2
11-3031	Financial Managers	6.2	Business Finance	6	Finance	52.0801	Finance, General.	6	Finance	1	2
11-3031	Financial Managers	6.2	Business Finance	6	Finance	52.0806	International Finance.	6	Finance	1	2
11-3031	Financial Managers	6.2	Business Finance	6	Finance	52.0808	Public Finance.	6	Finance	1	2
13-2031	Budget Analysts	6.2	Business Finance	6	Finance	52.0304	Accounting and Finance.	6	Finance	1	2
13-2031	Budget Analysts	6.2	Business Finance	6	Finance	52.0301	Accounting.	6	Finance	1	2
13-2031	Budget Analysts	6.2	Business Finance	6	Finance	52.0801	Finance, General.	6	Finance	1	2
13-2031	Budget Analysts	6.2	Business Finance	6	Finance	52.0808	Public Finance.	6	Finance	1	2
13-2051	Financial Analysts	6.2	Business Finance	6	Finance	52.0305	Accounting and Business/Management.	6	Finance	1	2
13-2051	Financial Analysts	6.2	Business Finance	6	Finance	52.0304	Accounting and Finance.	6	Finance	1	2
13-2051	Financial Analysts	6.2	Business Finance	6	Finance	52.0801	Finance, General.	6	Finance	1	2
13-2051	Financial Analysts	6.2	Business Finance	6	Finance	52.0808	Public Finance.	6	Finance	1	2
13-2051	Financial Analysts	6.2	Business Finance	6	Finance	27.0305	Financial Mathematics.	15	Science, Technology, Engineering & Mathemati	0	1
13-2051	Financial Analysts	6.2	Business Finance	6	Finance	52.0806	International Finance.	6	Finance	1	2
13-2051	Financial Analysts	6.2	Business Finance	6	Finance	52.0807	Investments and Securities.	6	Finance	1	2
13-2051	Financial Analysts	6.2	Business Finance	6	Finance	52.0808	Public Finance.	6	Finance	1	2
13-2082	Tax Preparers	6.2	Business Finance	6	Finance	52.0302	Accounting Technology/Technician and B	6	Finance	1	2
13-2082	Tax Preparers	6.2	Business Finance	6	Finance	52.1601	Taxation.	6	Finance	1	2
13-2011	Accountants and Auditors	6.3	Accounting	6	Finance	52.0305	Accounting and Business/Management.	6	Finance	1	2
13-2011	Accountants and Auditors	6.3	Accounting	6	Finance	30.1601	Accounting and Computer Science.	6	Finance	1	2
13-2011	Accountants and Auditors	6.3	Accounting	6	Finance	52.0304	Accounting and Finance.	6	Finance	1	2
13-2011	Accountants and Auditors	6.3	Accounting	6	Finance	52.0301	Accounting.	6	Finance	1	2
13-2011	Accountants and Auditors	6.3	Accounting	6	Finance	52.0303	Auditing.	6	Finance	1	2
13-2011	Accountants and Auditors	6.3	Accounting	6	Finance	43.0117	Financial Forensics and Fraud Investigatio	12	Law, Public Safety, Corrections & Security	0	1
13-2011	Accountants and Auditors	6.3	Accounting	6	Finance	52.1601	Taxation.	6	Finance	1	2
13-1031	Claims Adjusters, Examiners, and Investigators	6.4	Insurance	6	Finance	51.0715	Health/Medical Claims Examiner.	8	Health Science	0	1
13-1031	Claims Adjusters, Examiners, and Investigators	6.4	Insurance	6	Finance	52.1701	Insurance.	6	Finance	1	2
13-1032	Insurance Appraisers, Auto Damage	6.4	Insurance	6	Finance	47.0603	Autobody/Collision and Repair Technolog	16	Transportation, Distribution & Logistics	0	1
13-2051	Insurance Appraisers, Auto Damage	6.4	Insurance	6	Finance	52.1701	Insurance.	6	Finance	1	2
13-2053	Insurance Underwriters	6.4	Insurance	6	Finance	52.1304	Actuarial Science.	6	Finance	1	2
13-2053	Insurance Underwriters	6.4	Insurance	6	Finance	52.1701	Insurance.	6	Finance	1	2
15-2011	Actuaries	6.4	Insurance	6	Finance	52.1304	Actuarial Science.	6	Finance	1	2
15-2011	Actuaries	6.4	Insurance	6	Finance	27.0301	Applied Mathematics, General.	15	Science, Technology, Engineering & Mathemati	0	1
15-2011	Actuaries	6.4	Insurance	6	Finance	27.0304	Computational and Applied Mathematics.	15	Science, Technology, Engineering & Mathemati	0	1
15-2011	Actuaries	6.4	Insurance	6	Finance	27.0502	Mathematical Statistics and Probability.	15	Science, Technology, Engineering & Mathemati	0	1
15-2011	Actuaries	6.4	Insurance	6	Finance	27.0503	Mathematics and Statistics.	15	Science, Technology, Engineering & Mathemati	0	1
15-2011	Actuaries	6.4	Insurance	6	Finance	27.0501	Statistics, General.	15	Science, Technology, Engineering & Mathemati	0	1
15-2011	Actuaries	6.4	Insurance	6	Finance	27.0599	Statistics, Other.	15	Science, Technology, Engineering & Mathemati	0	1
41-3021	Insurance Sales Agents	6.4	Insurance	6	Finance	52.1701	Insurance.	6	Finance	1	2

Table 7 SOC_CIP XWalk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clusters Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Clstr*	CrossWalk Rel Strength**
43-9041	Insurance Claims and Policy Processing Clerks	6.4	Insurance	6	Finance	52.0408	General Office Occupations and Clerical S	6	Business Management & Administration	0	1
13-2041	Credit Analysts	6.5	Banking Services	6	Finance	52.0301	Accounting.	6	Finance	1	2
13-2041	Credit Analysts	6.5	Banking Services	6	Finance	52.0809	Credit Management.	6	Finance	1	2
13-2041	Credit Analysts	6.5	Banking Services	6	Finance	52.0801	Finance, General.	6	Finance	1	2
13-2072	Loan Officers	6.5	Banking Services	6	Finance	52.0809	Credit Management.	6	Finance	1	2
13-2072	Loan Officers	6.5	Banking Services	6	Finance	52.0801	Finance, General.	6	Finance	1	2
43-3011	Bill and Account Collectors	6.5	Banking Services	6	Finance	52.0803	Banking and Financial Support Services.	6	Finance	1	2
43-3071	Tellers	6.5	Banking Services	6	Finance	52.0803	Banking and Financial Support Services.	6	Finance	1	2
43-4041	Credit Authorizers, Checkers, and Clerks	6.5	Banking Services	6	Finance	52.0803	Banking and Financial Support Services.	6	Finance	1	2
43-4131	Loan Interviewers and Clerks	6.5	Banking Services	6	Finance	52.0803	Banking and Financial Support Services.	6	Finance	1	2
11-1031	Legislators	7.1	Governance	7	Government & Public Administration	44.0401	Public Administration.	7	Government & Public Administration	1	2
11-1031	Legislators	7.1	Governance	7	Government & Public Administration	44.0501	Public Policy Analysis, General.	7	Government & Public Administration	1	2
13-2061	Financial Examiners	7.1	Governance	7	Government & Public Administration	52.0301	Accounting.	6	Finance	0	1
13-2061	Financial Examiners	7.1	Governance	7	Government & Public Administration	52.0303	Auditing.	6	Finance	0	1
13-2061	Financial Examiners	7.1	Governance	7	Government & Public Administration	43.0117	Financial Forensics and Fraud Investigatio	12	Law, Public Safety, Corrections & Security	0	1
13-2061	Financial Examiners	7.1	Governance	7	Government & Public Administration	43.0121	Suspension and Debarment Investigation	12	Law, Public Safety, Corrections & Security	0	1
13-2061	Financial Examiners	7.1	Governance	7	Government & Public Administration	52.1601	Taxation.	6	Finance	0	1
55-1014	Artillery and Missile Officers	7.2	National Security	7	Government & Public Administration	29.0407	Missile and Space Systems Technology.	7	Government & Public Administration	1	2
55-1014	Artillery and Missile Officers	7.2	National Security	7	Government & Public Administration	28.0605	Weapons of Mass Destruction.	7	Government & Public Administration	1	2
55-1015	Command and Control Center Officers	7.2	National Security	7	Government & Public Administration	29.0204	Command & Control (C3, C4) Systems a	7	Government & Public Administration	1	2
55-1015	Command and Control Center Officers	7.2	National Security	7	Government & Public Administration	29.0207	Cyber/Electronic Operations and Warfare	7	Government & Public Administration	1	2
55-1015	Command and Control Center Officers	7.2	National Security	7	Government & Public Administration	29.0205	Information Operations/Joint Information	7	Government & Public Administration	1	2
55-1015	Command and Control Center Officers	7.2	National Security	7	Government & Public Administration	29.0206	Information/Psychological Warfare and M	7	Government & Public Administration	1	2
55-1015	Command and Control Center Officers	7.2	National Security	7	Government & Public Administration	29.0393	Intelligence, Command and Control and Infor	7	Government & Public Administration	1	2
55-1015	Command and Control Center Officers	7.2	National Security	7	Government & Public Administration	29.0405	Joint Commnd/Task Force (C3, C4) Syst	7	Government & Public Administration	1	2
55-1015	Command and Control Center Officers	7.2	National Security	7	Government & Public Administration	29.0406	Military Information Systems Technology.	7	Government & Public Administration	1	2
55-1016	Infantry Officers	7.2	National Security	7	Government & Public Administration	28.0602	Military and Strategic Leadership.	7	Government & Public Administration	1	2
55-1017	Special Forces Officers	7.2	National Security	7	Government & Public Administration	29.0404	Explosive Ordinance/Bomb Disposal.	7	Government & Public Administration	1	2
55-1017	Special Forces Officers	7.2	National Security	7	Government & Public Administration	28.0506	Special, Irregular and Counterterrorist Op	7	Government & Public Administration	1	2
55-1017	Special Forces Officers	7.2	National Security	7	Government & Public Administration	43.0304	Terrorism and Counterterrorism Operatio	12	Law, Public Safety, Corrections & Security	0	1
55-1019	Military Officer Special and Tactical Operations Leaders, All Other	7.2	National Security	7	Government & Public Administration	28.0504	Advanced Military and Operational Studie	7	Government & Public Administration	1	2
55-1019	Military Officer Special and Tactical Operations Leaders, All Other	7.2	National Security	7	Government & Public Administration	29.0393	Intelligence, Command and Control and Infor	7	Government & Public Administration	1	2
55-1019	Military Officer Special and Tactical Operations Leaders, All Other	7.2	National Security	7	Government & Public Administration	28.0604	Joint Operations Planning and Strategy.	7	Government & Public Administration	1	2
55-1019	Military Officer Special and Tactical Operations Leaders, All Other	7.2	National Security	7	Government & Public Administration	28.0602	Military and Strategic Leadership.	7	Government & Public Administration	1	2
55-1019	Military Officer Special and Tactical Operations Leaders, All Other	7.2	National Security	7	Government & Public Administration	28.0503	Military Operational Art and Science/Stuc	7	Government & Public Administration	1	2
55-1019	Military Officer Special and Tactical Operations Leaders, All Other	7.2	National Security	7	Government & Public Administration	28.0599	Military Science and Operational Studies.	7	Government & Public Administration	1	2
55-1019	Military Officer Special and Tactical Operations Leaders, All Other	7.2	National Security	7	Government & Public Administration	28.0505	Naval Science and Operational Studies.	7	Government & Public Administration	1	2
55-1019	Military Officer Special and Tactical Operations Leaders, All Other	7.2	National Security	7	Government & Public Administration	28.0601	Strategic Studies, General.	7	Government & Public Administration	1	2
55-3014	Artillery and Missile Crew Members	7.2	National Security	7	Government & Public Administration	28.0601	Strategic Studies, General.	7	Government & Public Administration	1	2
55-3014	Artillery and Missile Crew Members	7.2	National Security	7	Government & Public Administration	29.0408	Munitions Systems/Ordnance Technology.	7	Government & Public Administration	1	2
55-3014	Artillery and Missile Crew Members	7.2	National Security	7	Government & Public Administration	28.0605	Weapons of Mass Destruction.	7	Government & Public Administration	1	2
55-3015	Command and Control Center Specialists	7.2	National Security	7	Government & Public Administration	29.0204	Command & Control (C3, C4) Systems a	7	Government & Public Administration	1	2
55-3015	Command and Control Center Specialists	7.2	National Security	7	Government & Public Administration	29.0207	Cyber/Electronic Operations and Warfare	7	Government & Public Administration	1	2
55-3015	Command and Control Center Specialists	7.2	National Security	7	Government & Public Administration	29.0205	Information Operations/Joint Information	7	Government & Public Administration	1	2
55-3015	Command and Control Center Specialists	7.2	National Security	7	Government & Public Administration	29.0206	Information/Psychological Warfare and M	7	Government & Public Administration	1	2
55-3015	Command and Control Center Specialists	7.2	National Security	7	Government & Public Administration	29.0393	Intelligence, Command and Control and Infor	7	Government & Public Administration	1	2
55-3015	Command and Control Center Specialists	7.2	National Security	7	Government & Public Administration	29.0405	Joint Commnd/Task Force (C3, C4) Syst	7	Government & Public Administration	1	2
55-3015	Command and Control Center Specialists	7.2	National Security	7	Government & Public Administration	29.0406	Military Information Systems Technology.	7	Government & Public Administration	1	2
55-3017	Radar and Sonar Technicians	7.2	National Security	7	Government & Public Administration	29.0303	Engineering Acoustics.	7	Government & Public Administration	1	2
55-3017	Radar and Sonar Technicians	7.2	National Security	7	Government & Public Administration	29.0306	Operational Oceanography.	7	Government & Public Administration	1	2
55-3017	Radar and Sonar Technicians	7.2	National Security	7	Government & Public Administration	29.0409	Radar Communications and Systems Tec	7	Government & Public Administration	1	2
55-3017	Radar and Sonar Technicians	7.2	National Security	7	Government & Public Administration	29.0307	Undersea Warfare.	7	Government & Public Administration	1	2
55-3018	Special Forces	7.2	National Security	7	Government & Public Administration	29.0404	Explosive Ordinance/Bomb Disposal.	7	Government & Public Administration	1	2
55-3018	Special Forces	7.2	National Security	7	Government & Public Administration	28.0506	Special, Irregular and Counterterrorist Op	7	Government & Public Administration	1	2
55-3018	Special Forces	7.2	National Security	7	Government & Public Administration	43.0304	Terrorism and Counterterrorism Operatio	12	Law, Public Safety, Corrections & Security	0	1
55-3019	Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Mem	7.2	National Security	7	Government & Public Administration	28.0599	Military Science and Operational Studies.	7	Government & Public Administration	1	2
19-3051	Urban and Regional Planners	7.4	Planning	7	Government & Public Administration	04.0301	City/Urban, Community and Regional Plar	7	Government & Public Administration	1	2
19-3051	Urban and Regional Planners	7.4	Planning	7	Government & Public Administration	04.1001	Real Estate Development.	2	Architecture & Construction	0	1
19-3051	Urban and Regional Planners	7.4	Planning	7	Government & Public Administration	45.1201	Urban Studies/Affairs.	7	Government & Public Administration	1	2
43-9111	Statistical Assistants	7.4	Planning	7	Government & Public Administration	52.0302	Accounting Technology/Technician and	6	Finance	0	1
13-2021	Appraisers and Assessors of Real Estate	7.5	Revenue and Taxation	7	Government & Public Administration	04.1001	Real Estate Development.	2	Architecture & Construction	0	1
13-2021	Appraisers and Assessors of Real Estate	7.5	Revenue and Taxation	7	Government & Public Administration	52.1501	Real Estate.	14	Marketing	0	1
13-2081	Tax Examiners and Collectors, and Revenue Agents	7.5	Revenue and Taxation	7	Government & Public Administration	52.0301	Accounting.	6	Finance	0	1
13-2081	Tax Examiners and Collectors, and Revenue Agents	7.5	Revenue and Taxation	7	Government & Public Administration	52.1601	Taxation.	6	Finance	0	1
29-9011	Occupational Health and Safety Specialists	7.6	Regulation	7	Government & Public Administration	15.0703	Industrial Safety Technology/Technician.	8	Health Science	0	1
29-9011	Occupational Health and Safety Specialists	7.6	Regulation	7	Government & Public Administration	51.2206	Occupational Health and Industrial Hygie	8	Health Science	0	1
29-9011	Occupational Health and Safety Specialists	7.6	Regulation	7	Government & Public Administration	15.0701	Occupational Safety and Health Technol	7	Government & Public Administration	1	2
29-9012	Occupational Health and Safety Technicians	7.6	Regulation	7	Government & Public Administration	51.2202	Environmental Health.	8	Health Science	0	1
29-9012	Occupational Health and Safety Technicians	7.6	Regulation	7	Government & Public Administration	51.2206	Occupational Health and Industrial Hygie	8	Health Science	0	1
29-9012	Occupational Health and Safety Technicians	7.6	Regulation	7	Government & Public Administration	51.0916	Radiation Protection/Health Physics Tech	8	Health Science	0	1
45-2011	Agricultural Inspectors	7.6	Regulation	7	Government & Public Administration	01.0401	Agricultural and Food Products Processin	1	Agriculture, Food & Natural Resources	0	1
47-4011	Construction and Building Inspectors	7.6	Regulation	7	Government & Public Administration	46.0403	Building/Home/Construction Inspection/I	2	Architecture & Construction	0	1
11-9131	Postmasters and Mail Superintendents	7.7	Public Management and Administration	7	Government & Public Administration	44.0401	Public Administration.	7	Government & Public Administration	1	2
11-9161	Emergency Management Directors	7.7	Public Management and Administration	7	Government & Public Administration	43.0302	Crisis/Emergency/Disaster Management.	12	Law, Public Safety, Corrections & Security	0	1
11-9161	Emergency Management Directors	7.7	Public Management and Administration	7	Government & Public Administration	43.0119	Critical Incident Response/Special Police	12	Law, Public Safety, Corrections & Security	0	1
11-9161	Emergency Management Directors	7.7	Public Management and Administration	7	Government & Public Administration	43.0303	Critical Infrastructure Protection.	12	Law, Public Safety, Corrections & Security	0	1
11-9161	Emergency Management Directors	7.7	Public Management and Administration	7	Government & Public Administration	43.0301	Homeland Security.	12	Law, Public Safety, Corrections & Security	0	1
11-9161	Emergency Management Directors	7.7	Public Management and Administration	7	Government & Public Administration	43.0120	Protective Services Operations.	12	Law, Public Safety, Corrections & Security	0	1
11-9161	Emergency Management Directors	7.7	Public Management and Administration	7	Government & Public Administration	43.0304	Terrorism and Counterterrorism Operatio	12	Law, Public Safety, Corrections & Security	0	1
43-4061	Eligibility Interviewers, Government Programs	7.7	Public Management and Administration	7	Government & Public Administration	44.0201	Community Organization and Advocacy.	10	Human Services	0	1
29-1011	Chiropractors	8.1	Therapeutic Services	8	Health Science	51.0101	Chiropractic.	8	Health Science	1	2
29-1011	Dentists, General	8.1	Therapeutic Services	8	Health Science	51.0102	Advanced General Dentistry.	8	Health Science	1	2
29-1021	Dentists, General	8.1	Therapeutic Services	8	Health Science	60.0102	Dental Public Health Residency Program.	8	Health Science	1	2
29-1021	Dentists, General	8.1	Therapeutic Services	8	Health Science	51.0401	Dentistry.	8	Health Science	1	2
29-1021	Dentists, General	8.1	Therapeutic Services	8	Health Science	60.0106	Pediatric Dentistry Residency Program.	8	Health Science	1	2
29-1021	Dentists, General	8.1	Therapeutic Services	8	Health Science	51.0509	Pediatric Dentistry/Pedodontics.	8	Health Science	1	2
29-1022	Oral and Maxillofacial Surgeons	8.1	Therapeutic Services	8	Health Science	60.0101	Oral and Maxillofacial Surgery Residency	8	Health Science	1	2
29-1022	Oral and Maxillofacial Surgeons	8.1	Therapeutic Services	8	Health Science	51.0507	Oral/Maxillofacial Surgery.	8	Health Science	1	2
29-1023	Orthodontists	8.1	Therapeutic Services	8	Health Science	61.0105	Orthodontics Residency Program.	8	Health Science	1	2
29-1023	Orthodontists	8.1	Therapeutic Services	8	Health Science	51.0508	Orthodontics/Orthodontology.	8	Health Science	1	2
29-1024	Prosthodontists	8.1	Therapeutic Services	8	Health Science	60.0108	Prosthodontics Residency Program.	8	Health Science	1	2
29-1024	Prosthodontists	8.1	Therapeutic Services	8	Health Science	51.0511	Prosthodontics/Prosthodontology.	8	Health Science	1	2

Table 7 SOC_CIP XWalk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clusters Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Cstr*	CrossWalk Rel Strength**
29-1029	Dentists, All Other Specialists	8.1	Therapeutic Services	8	Health Science	51.0599	Advanced/Graduate Dentistry and Oral S	8	Health Science	1	2
29-1029	Dentists, All Other Specialists	8.1	Therapeutic Services	8	Health Science	51.0501	Dental Clinical Sciences, General.	8	Health Science	1	2
29-1029	Dentists, All Other Specialists	8.1	Therapeutic Services	8	Health Science	51.0505	Dental Materials	8	Health Science	1	2
29-1029	Dentists, All Other Specialists	8.1	Therapeutic Services	8	Health Science	51.0504	Dental Public Health and Education.	8	Health Science	1	2
29-1029	Dentists, All Other Specialists	8.1	Therapeutic Services	8	Health Science	60.0102	Dental Public Health Residency Program.	8	Health Science	1	2
29-1029	Dentists, All Other Specialists	8.1	Therapeutic Services	8	Health Science	60.0199	Dental Residency Program, Other.	8	Health Science	1	2
29-1029	Dentists, All Other Specialists	8.1	Therapeutic Services	8	Health Science	60.0103	Endodontics Residency Program.	8	Health Science	1	2
29-1029	Dentists, All Other Specialists	8.1	Therapeutic Services	8	Health Science	51.0506	Endodontics/Endodontology.	8	Health Science	1	2
29-1029	Dentists, All Other Specialists	8.1	Therapeutic Services	8	Health Science	60.0104	Oral and Maxillofacial Pathology Residenc	8	Health Science	1	2
29-1029	Dentists, All Other Specialists	8.1	Therapeutic Services	8	Health Science	60.0109	Oral and Maxillofacial Radiology Residenc	8	Health Science	1	2
29-1029	Dentists, All Other Specialists	8.1	Therapeutic Services	8	Health Science	51.0503	Oral Biology and Oral and Maxillofacial Pat	8	Health Science	1	2
29-1029	Dentists, All Other Specialists	8.1	Therapeutic Services	8	Health Science	60.0106	Pediatric Dentistry Residency Program.	8	Health Science	1	2
29-1029	Dentists, All Other Specialists	8.1	Therapeutic Services	8	Health Science	51.0510	Periodontics/Periodontology.	8	Health Science	1	2
29-1029	Dentists, All Other Specialists	8.1	Therapeutic Services	8	Health Science	60.0107	Periodontology Residency Program.	8	Health Science	1	2
29-1031	Dietitians and Nutritionists	8.1	Therapeutic Services	8	Health Science	51.3102	Clinical Nutrition/Nutritionist.	8	Health Science	1	2
29-1031	Dietitians and Nutritionists	8.1	Therapeutic Services	8	Health Science	51.3199	Dietetics and Clinical Nutrition Services, C	8	Health Science	1	2
29-1031	Dietitians and Nutritionists	8.1	Therapeutic Services	8	Health Science	51.3101	Dietetics/Dietitian.	8	Health Science	1	2
29-1031	Dietitians and Nutritionists	8.1	Therapeutic Services	8	Health Science	19.0599	Foods, Nutrition, and Related Services, O	8	Health Science	1	2
29-1031	Dietitians and Nutritionists	8.1	Therapeutic Services	8	Health Science	19.0501	Foods, Nutrition, and Wellness Studies, G	8	Health Science	1	2
29-1031	Dietitians and Nutritionists	8.1	Therapeutic Services	8	Health Science	19.0505	Foodservice Systems Administration/Mar	8	Health Science	1	2
29-1031	Dietitians and Nutritionists	8.1	Therapeutic Services	8	Health Science	19.0504	Human Nutrition.	8	Health Science	1	2
29-1031	Dietitians and Nutritionists	8.1	Therapeutic Services	8	Health Science	30.1901	Nutrition Sciences.	15	Science, Technology, Engineering & Mathemati	0	1
29-1041	Optometrists	8.1	Therapeutic Services	8	Health Science	51.1701	Optometry.	8	Health Science	1	2
29-1041	Optometrists	8.1	Therapeutic Services	8	Health Science	51.2000	Clinical and Industrial Drug Development.	8	Health Science	1	2
29-1051	Pharmacists	8.1	Therapeutic Services	8	Health Science	51.2008	Clinical, Hospital, and Managed Care Pham	8	Health Science	1	2
29-1051	Pharmacists	8.1	Therapeutic Services	8	Health Science	51.2009	Industrial and Physical Pharmacy and Cos	8	Health Science	1	2
29-1051	Pharmacists	8.1	Therapeutic Services	8	Health Science	51.2004	Medicinal and Pharmaceutical Chemistry.	8	Health Science	1	2
29-1051	Pharmacists	8.1	Therapeutic Services	8	Health Science	51.2005	Natural Products Chemistry and Pharmac	8	Health Science	1	2
29-1051	Pharmacists	8.1	Therapeutic Services	8	Health Science	51.2010	Pharmaceutical Sciences.	8	Health Science	1	2
29-1051	Pharmacists	8.1	Therapeutic Services	8	Health Science	51.2003	Pharmaceuticals and Drug Design.	8	Health Science	1	2
29-1051	Pharmacists	8.1	Therapeutic Services	8	Health Science	51.2007	Pharmacoeconomics/Pharmaceutical Eco	8	Health Science	1	2
29-1051	Pharmacists	8.1	Therapeutic Services	8	Health Science	51.2002	Pharmacy Administration and Pharmacy P	8	Health Science	1	2
29-1051	Pharmacists	8.1	Therapeutic Services	8	Health Science	51.2001	Pharmacy.	8	Health Science	1	2
29-1061	Anesthesiologists	8.1	Therapeutic Services	8	Health Science	60.0403	Anesthesiology Residency Program.	8	Health Science	1	2
29-1062	Family and General Practitioners	8.1	Therapeutic Services	8	Health Science	60.0413	Family Medicine Residency Program.	8	Health Science	1	2
29-1062	Family and General Practitioners	8.1	Therapeutic Services	8	Health Science	51.1201	Medicine.	8	Health Science	1	2
29-1062	Family and General Practitioners	8.1	Therapeutic Services	8	Health Science	51.1901	Osteopathic Medicine/Osteopathy.	8	Health Science	1	2
29-1063	Internists, General	8.1	Therapeutic Services	8	Health Science	60.0415	Internal Medicine Residency Program.	8	Health Science	1	2
29-1063	Obstetricians and Gynecologists	8.1	Therapeutic Services	8	Health Science	60.0419	Obstetrics and Gynecology Residency Pro	8	Health Science	1	2
29-1065	Pediatricians, General	8.1	Therapeutic Services	8	Health Science	60.0425	Pediatrics Residency Program.	8	Health Science	1	2
29-1066	Psychiatrists	8.1	Therapeutic Services	8	Health Science	60.0501	Addiction Psychiatry Residency Program.	8	Health Science	1	2
29-1066	Psychiatrists	8.1	Therapeutic Services	8	Health Science	60.0507	Child and Adolescent Psychiatry Residenc	8	Health Science	1	2
29-1066	Psychiatrists	8.1	Therapeutic Services	8	Health Science	60.0518	Forensic Psychiatry Residency Program.	8	Health Science	1	2
29-1066	Psychiatrists	8.1	Therapeutic Services	8	Health Science	60.0521	Geriatric Psychiatry Residency Program.	8	Health Science	1	2
29-1066	Psychiatrists	8.1	Therapeutic Services	8	Health Science	60.0428	Psychiatry Residency Program.	8	Health Science	1	2
29-1067	Surgeons	8.1	Therapeutic Services	8	Health Science	60.0570	Psychosomatic Medicine Residency Progr	8	Health Science	1	2
29-1067	Surgeons	8.1	Therapeutic Services	8	Health Science	60.0409	Colon and Rectal Surgery Residency Prog	8	Health Science	1	2
29-1067	Surgeons	8.1	Therapeutic Services	8	Health Science	60.0510	Congenital Cardiac Surgery Residency Prc	8	Health Science	1	2
29-1067	Surgeons	8.1	Therapeutic Services	8	Health Science	60.0414	General Surgery Residency Program.	8	Health Science	1	2
29-1067	Surgeons	8.1	Therapeutic Services	8	Health Science	60.0416	Neurological Surgery Residency Program.	8	Health Science	1	2
29-1067	Surgeons	8.1	Therapeutic Services	8	Health Science	60.0547	Orthopedic Surgery of the Spine Residenc	8	Health Science	1	2
29-1067	Surgeons	8.1	Therapeutic Services	8	Health Science	60.0422	Orthopedic Surgery Residency Program.	8	Health Science	1	2
29-1067	Surgeons	8.1	Therapeutic Services	8	Health Science	60.0558	Pediatric Orthopedics Residency Program	8	Health Science	1	2
29-1067	Surgeons	8.1	Therapeutic Services	8	Health Science	60.0565	Pediatric Surgery Residency Program.	8	Health Science	1	2
29-1067	Surgeons	8.1	Therapeutic Services	8	Health Science	60.0427	Plastic Surgery Residency Program.	8	Health Science	1	2
29-1067	Surgeons	8.1	Therapeutic Services	8	Health Science	60.0569	Plastic Surgery Within the Head and Neck	8	Health Science	1	2
29-1067	Surgeons	8.1	Therapeutic Services	8	Health Science	60.0578	Surgery of the Hand Residency Program.	8	Health Science	1	2
29-1067	Surgeons	8.1	Therapeutic Services	8	Health Science	60.0579	Surgical Critical Care Residency Program.	8	Health Science	1	2
29-1067	Surgeons	8.1	Therapeutic Services	8	Health Science	60.0432	Thoracic Surgery Residency Program.	8	Health Science	1	2
29-1067	Surgeons	8.1	Therapeutic Services	8	Health Science	60.0434	Vascular Surgery Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0502	Adolescent Medicine Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0401	Aerospace Medicine Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0402	Allergy and Immunology Residency Progr	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0503	Blood Banking/Transfusion Medicine Resi	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0504	Cardiovascular Disease Residency Progr	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0505	Chemical Pathology Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0506	Child Abuse Pediatrics Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0404	Child Neurology Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0405	Clinical Biochemical Genetics Residency P	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0508	Clinical Cardiac Electrophysiology Residen	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0406	Clinical Cytogenetics Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0407	Clinical Genetics Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0408	Clinical Molecular Genetics Residency Pro	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0509	Clinical Neurophysiology Residency Progr	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0511	Critical Care Medicine Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0512	Cytopathology Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0410	Dermatology Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0513	Dermatopathology Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0514	Developmental-Behavioral Pediatrics Resi	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0515	Diagnostic Radiologic Physics Residency F	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0411	Diagnostic Radiology Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0412	Emergency Medicine Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0516	Endocrinology, Diabetes and Metabolism	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0517	Forensic Pathology Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0519	Gastroenterology Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0520	Geriatric Medicine Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0522	Gynecologic Oncology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0523	Hematological Pathology Residency Progr	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0524	Hematology Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0525	Hospice and Palliative Medicine Residenc	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0526	Immunopathology Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0527	Infectious Disease Residency Program.	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0528	Interventional Cardiology Residency Progr	8	Health Science	1	2

Table 7 SOC_CIP Walk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clusters Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Cstr*	CrossWalk Rel Strength**
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0529	Laboratory Medicine Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0530	Maternal and Fetal Medicine Residency Pr	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0531	Medical Biotechnology Residency F8	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0532	Medical Microbiology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0533	Medical Nuclear Physics Residency Progra	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0534	Medical Oncology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0499	Medical Residency Programs - General Ce	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0599	Medical Residency Programs - Subspecial	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0535	Medical Toxicology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	51.1201	Medical	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0536	Molecular Genetic Pathology Residency Pr	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0537	Musculoskeletal Oncology Residency Prog	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0538	Neonatal-Perinatal Medicine Residency Pr	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0539	Nephrology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0540	Neurodevelopmental Disabilities Residenc	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0417	Neurology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0541	Neuromuscular Medicine Residency Progr	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0542	Neuropathology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0543	Neuroradiology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0544	Neurotology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0418	Nuclear Medicine Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0545	Nuclear Radiology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0420	Occupational Medicine Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0421	Ophthalmology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0546	Orthopedic Sports Medicine Residency Pr	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	51.1901	Osteopathic Medicine/Osteopathy	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0423	Otolaryngology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0548	Pain Medicine Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0424	Pathology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0549	Pediatric Cardiology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0550	Pediatric Critical Care Medicine Residenc	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0573	Pediatric Dermatology Residency Progra	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0552	Pediatric Emergency Medicine Residency I	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0553	Pediatric Endocrinology Residency Progra	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0554	Pediatric Gastroenterology Residency Pro	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0555	Pediatric Hematology-Oncology Residenc	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0556	Pediatric Infectious Diseases Residency P	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0557	Pediatric Nephrology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0558	Pediatric Otolaryngology Residency Progra	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0560	Pediatric Pathology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0561	Pediatric Pulmonology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0562	Pediatric Radiology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0563	Pediatric Rehabilitation Medicine Residenc	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0564	Pediatric Rheumatology Residency Progra	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0566	Pediatric Transplant Hepatology Residenc	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0567	Pediatric Urology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0426	Physical Medicine and Rehabilitation Resi	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0568	Physical Medicine and Rehabilitation/Psyc	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0429	Public Health and General Preventive Med	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0571	Pulmonary Disease Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0430	Radiation Oncology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0572	Radioisotopic Pathology Residency Progra	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0431	Radiologic Physics Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0575	Reproductive Endocrinology/Infertility Re	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0574	Rheumatology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0575	Sleep Medicine Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0576	Spinal Cord Injury Medicine Residency Pro	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0577	Sports Medicine Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0580	Therapeutic Radiologic Physics Residenc	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0581	Transplant Hepatology Residency Progra	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0582	Undersea and Hyperbaric Medicine Reside	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0433	Urology Residency Program	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0583	Vascular and Interventional Radiology Res	8	Health Science	1	2
29-1069	Physicians and Surgeons, All Other	8.1	Therapeutic Services	8	Health Science	60.0584	Vascular Neurology Residency Program	8	Health Science	1	2
29-1071	Physician Assistants	8.1	Therapeutic Services	8	Health Science	51.0912	Physician Assistant	8	Health Science	1	2
29-1081	Podiatrists	8.1	Therapeutic Services	8	Health Science	60.0601	Podiatric Medicine and Surgery - 24 Resic	8	Health Science	1	2
29-1081	Podiatrists	8.1	Therapeutic Services	8	Health Science	60.0602	Podiatric Medicine and Surgery - 36 Resic	8	Health Science	1	2
29-1081	Podiatrists	8.1	Therapeutic Services	8	Health Science	51.2101	Podiatric Medicine/Podiatry	8	Health Science	1	2
29-1122	Occupational Therapists	8.1	Therapeutic Services	8	Health Science	51.2306	Occupational Therapy/Therapist	8	Health Science	1	2
29-1123	Physical Therapists	8.1	Therapeutic Services	8	Health Science	51.2311	Kinesiotherapy/Kinesiotherapist	8	Health Science	1	2
29-1123	Physical Therapists	8.1	Therapeutic Services	8	Health Science	51.2308	Physical Therapy/Therapist	8	Health Science	1	2
29-1124	Radiation Therapists	8.1	Therapeutic Services	8	Health Science	51.0907	Medical Radiologic Technology/Science -	8	Health Science	1	2
29-1125	Recreational Therapists	8.1	Therapeutic Services	8	Health Science	51.2309	Therapeutic Recreation/Recreational The	8	Health Science	1	2
29-1126	Respiratory Therapists	8.1	Therapeutic Services	8	Health Science	51.0908	Respiratory Care Therapy/Therapist	8	Health Science	1	2
29-1127	Speech-Language Pathologists	8.1	Therapeutic Services	8	Health Science	51.0204	Audiology/Audiologist and Speech-Langu	8	Health Science	1	2
29-1127	Speech-Language Pathologists	8.1	Therapeutic Services	8	Health Science	51.0299	Communication Disorders/Sciences and S	8	Health Science	1	2
29-1127	Speech-Language Pathologists	8.1	Therapeutic Services	8	Health Science	51.0201	Communication Sciences and Disorders	8	Health Science	1	2
29-1127	Speech-Language Pathologists	8.1	Therapeutic Services	8	Health Science	51.0203	Speech-Language Pathology/Pathologist	8	Health Science	1	2
29-1128	Exercise Physiologists	8.1	Therapeutic Services	8	Health Science	26.0908	Exercise Physiology	15	Science, Technology, Engineering & Mathemati	0	1
29-1128	Exercise Physiologists	8.1	Therapeutic Services	8	Health Science	31.0505	Kinesiology and Exercise Science	5	Education & Training	0	1
29-1128	Exercise Physiologists	8.1	Therapeutic Services	8	Health Science	51.2311	Kinesiotherapy/Kinesiotherapist	8	Health Science	1	2
29-1129	Therapists, All Other	8.1	Therapeutic Services	8	Health Science	51.2313	Animal-Assisted Therapy	8	Health Science	1	2
29-1129	Therapists, All Other	8.1	Therapeutic Services	8	Health Science	51.2301	Art Therapy/Therapist	8	Health Science	1	2
29-1129	Therapists, All Other	8.1	Therapeutic Services	8	Health Science	51.2302	Dance Therapy/Therapist	8	Health Science	1	2
29-1129	Therapists, All Other	8.1	Therapeutic Services	8	Health Science	51.3601	Movement Therapy and Movement Educa	8	Health Science	1	2
29-1129	Therapists, All Other	8.1	Therapeutic Services	8	Health Science	51.2305	Music Therapy/Therapist	8	Health Science	1	2
29-1129	Therapists, All Other	8.1	Therapeutic Services	8	Health Science	51.2399	Rehabilitation and Therapeutic Profession	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	51.2509	Comparative and Laboratory Animal Medi	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	60.0306	Laboratory Animal Medicine Residency Pr	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	51.2507	Large Animal/Food Animal and Equine Su	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	60.0318	Poultry Veterinarian Residency Program	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	51.2508	Small/Companion Animal Surgery and Me	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	60.0315	Therionogenology Residency Program	8	Health Science	1	2

Table 7 SOC_CIP Walk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clstr No	Career Clusters Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Clstr*	CrossWalk Rel Strength**
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	51.2502	Veterinary Anatomy.	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0301	Veterinary Anesthesiology Residency Pro	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0319	Veterinary Behaviorist Residency Program	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	51.2599	Veterinary Biomedical and Clinical Science	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0320	Veterinary Clinical Pharmacology Residen	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0302	Veterinary Dentistry Residency Program.	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0303	Veterinary Dermatology Residency Progr	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0304	Veterinary Emergency and Critical Care N	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	51.2511	Veterinary Infectious Diseases.	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0305	Veterinary Internal Medicine Residency Pr	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	51.2401	Veterinary Medicine.	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	51.2504	Veterinary Microbiology and Immunobiolo	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0307	Veterinary Microbiology Residency Progra	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0308	Veterinary Nutrition Residency Program.	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0309	Veterinary Ophthalmology Residency Proj	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	51.2505	Veterinary Pathology and Pathobiology.	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0310	Veterinary Pathology Residency Program.	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	51.2503	Veterinary Physiology.	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0311	Veterinary Practice Residency Program.	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0312	Veterinary Preventive Medicine Residency	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	51.2510	Veterinary Preventive Medicine, Epidemio	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0313	Veterinary Radiology Residency Program.	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0399	Veterinary Residency Programs, Other.	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	51.2501	Veterinary Sciences/Veterinary Clinical	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0314	Veterinary Surgery Residency Program.	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	51.2506	Veterinary Toxicology and Pharmacology.	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0316	Veterinary Toxicology Residency Program	8	Health Science	1	2
29-1131	Veterinarians	8.1	Therapeutic Services	8	Health Science	Health Science	60.0317	Zoological Medicine Residency Program.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3803	Adult Health Nurse/Nursing.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3820	Clinical Nurse Leader.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3813	Clinical Nurse Specialist.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3814	Critical Care Nurse/Nursing.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3816	Emergency Room/Trauma Nursing.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3805	Family Practice Nurse/Nursing.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3821	Geriatric Nurse/Nursing.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3806	Maternal/Child Health and Neonatal Nurse	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3802	Nursing Administration.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3818	Nursing Practice.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3808	Nursing Science.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3815	Occupational and Environmental Health N	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3819	Palliative Care Nursing.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3809	Pediatric Nurse/Nursing.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3812	Perioperative/Operating Room and Surgic	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3810	Psychiatric/Mental Health Nurse/Nursing.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3811	Public Health/Community Nurse/Nursing.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3899	Registered Nursing, Nursing Administrat	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3801	Registered Nursing/Registered Nurse.	8	Health Science	1	2
29-1141	Registered Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3822	Women's Health Nurse/Nursing.	8	Health Science	1	2
29-1151	Nurse Anesthetists	8.1	Therapeutic Services	8	Health Science	Health Science	51.3804	Nurse Anesthetist.	8	Health Science	1	2
29-1161	Nurse Midwives	8.1	Therapeutic Services	8	Health Science	Health Science	51.3807	Nurse Midwife/Nursing Midwifery.	8	Health Science	1	2
29-1171	Nurse Practitioners	8.1	Therapeutic Services	8	Health Science	Health Science	51.3803	Adult Health Nurse/Nursing.	8	Health Science	1	2
29-1171	Nurse Practitioners	8.1	Therapeutic Services	8	Health Science	Health Science	51.3814	Critical Care Nursing.	8	Health Science	1	2
29-1171	Nurse Practitioners	8.1	Therapeutic Services	8	Health Science	Health Science	51.3816	Emergency Room/Trauma Nursing.	8	Health Science	1	2
29-1171	Nurse Practitioners	8.1	Therapeutic Services	8	Health Science	Health Science	51.3805	Family Practice Nurse/Nursing.	8	Health Science	1	2
29-1171	Nurse Practitioners	8.1	Therapeutic Services	8	Health Science	Health Science	51.3821	Geriatric Nurse/Nursing.	8	Health Science	1	2
29-1171	Nurse Practitioners	8.1	Therapeutic Services	8	Health Science	Health Science	51.3806	Maternal/Child Health and Neonatal Nurse	8	Health Science	1	2
29-1171	Nurse Practitioners	8.1	Therapeutic Services	8	Health Science	Health Science	51.3818	Nursing Practice.	8	Health Science	1	2
29-1171	Nurse Practitioners	8.1	Therapeutic Services	8	Health Science	Health Science	51.3809	Pediatric Nurse/Nursing.	8	Health Science	1	2
29-1171	Nurse Practitioners	8.1	Therapeutic Services	8	Health Science	Health Science	51.3810	Psychiatric/Mental Health Nurse/Nursing.	8	Health Science	1	2
29-1171	Nurse Practitioners	8.1	Therapeutic Services	8	Health Science	Health Science	51.3899	Registered Nursing, Nursing Administrat	8	Health Science	1	2
29-1171	Nurse Practitioners	8.1	Therapeutic Services	8	Health Science	Health Science	51.3822	Women's Health Nurse/Nursing.	8	Health Science	1	2
29-1181	Audiologists	8.1	Therapeutic Services	8	Health Science	Health Science	51.0204	Audiology/Audiologist and Speech-Langu	8	Health Science	1	2
29-1181	Audiologists	8.1	Therapeutic Services	8	Health Science	Health Science	51.0202	Audiology/Audiologist.	8	Health Science	1	2
29-1181	Audiologists	8.1	Therapeutic Services	8	Health Science	Health Science	51.0299	Communication Disorders Sciences and S	8	Health Science	1	2
29-1181	Audiologists	8.1	Therapeutic Services	8	Health Science	Health Science	51.0201	Communication Sciences and Disorders, C	8	Health Science	1	2
29-1199	Health Diagnosing and Treating Practitioners, All Other	8.1	Therapeutic Services	8	Health Science	Health Science	51.3301	Acupuncture and Oriental Medicine.	8	Health Science	1	2
29-1199	Health Diagnosing and Treating Practitioners, All Other	8.1	Therapeutic Services	8	Health Science	Health Science	51.3300	Alternative and Complementary Medicine	8	Health Science	1	2
29-1199	Health Diagnosing and Treating Practitioners, All Other	8.1	Therapeutic Services	8	Health Science	Health Science	51.3399	Alternative and Complementary Medicine	8	Health Science	1	2
29-1199	Health Diagnosing and Treating Practitioners, All Other	8.1	Therapeutic Services	8	Health Science	Health Science	51.3701	Aromatherapy.	8	Health Science	1	2
29-1199	Health Diagnosing and Treating Practitioners, All Other	8.1	Therapeutic Services	8	Health Science	Health Science	51.3305	Ayurvedic Medicine/Ayurveda.	8	Health Science	1	2
29-1199	Health Diagnosing and Treating Practitioners, All Other	8.1	Therapeutic Services	8	Health Science	Health Science	51.3401	Direct Entry Midwifery.	8	Health Science	1	2
29-1199	Health Diagnosing and Treating Practitioners, All Other	8.1	Therapeutic Services	8	Health Science	Health Science	51.3306	Holistic Health.	8	Health Science	1	2
29-1199	Health Diagnosing and Treating Practitioners, All Other	8.1	Therapeutic Services	8	Health Science	Health Science	51.3304	Homeopathic Medicine/Homeopathy.	8	Health Science	1	2
29-1199	Health Diagnosing and Treating Practitioners, All Other	8.1	Therapeutic Services	8	Health Science	Health Science	51.3303	Naturopathic Medicine/Naturopathy.	8	Health Science	1	2
29-1199	Health Diagnosing and Treating Practitioners, All Other	8.1	Therapeutic Services	8	Health Science	Health Science	51.3703	Polarity Therapy.	8	Health Science	1	2
29-1199	Health Diagnosing and Treating Practitioners, All Other	8.1	Therapeutic Services	8	Health Science	Health Science	51.3704	Reiki.	8	Health Science	1	2
29-2021	Dental Hygienists	8.1	Therapeutic Services	8	Health Science	Health Science	51.0602	Dental Hygiene/Hygienist.	8	Health Science	1	2
29-2051	Dietetic Technicians	8.1	Therapeutic Services	8	Health Science	Health Science	51.3103	Dietetic Technician.	8	Health Science	1	2
29-2051	Dietetic Technicians	8.1	Therapeutic Services	8	Health Science	Health Science	51.3101	Dietetics/Dietitian.	8	Health Science	1	2
29-2051	Dietetic Technicians	8.1	Therapeutic Services	8	Health Science	Health Science	51.3104	Dietitian Assistant.	8	Health Science	1	2
29-2051	Dietetic Technicians	8.1	Therapeutic Services	8	Health Science	Health Science	19.0501	Foods, Nutrition, and Wellness Studies, G	8	Health Science	1	2
29-2051	Dietetic Technicians	8.1	Therapeutic Services	8	Health Science	Health Science	30.1901	Nutrition Sciences.	15	Science, Technology, Engineering & Mathemati	0	1
29-2051	Pharmacy Technicians	8.1	Therapeutic Services	8	Health Science	Health Science	51.0805	Pharmacy Technician/Assistant.	8	Health Science	1	2
29-2053	Psychiatric Technicians	8.1	Therapeutic Services	8	Health Science	Health Science	51.1502	Psychiatric/Mental Health Services Techn	8	Health Science	1	2
29-2054	Respiratory Therapy Technicians	8.1	Therapeutic Services	8	Health Science	Health Science	51.0908	Respiratory Care Therapy/Therapist.	8	Health Science	1	2
29-2054	Respiratory Therapy Technicians	8.1	Therapeutic Services	8	Health Science	Health Science	51.0812	Respiratory Therapy Technician/Assistan	8	Health Science	1	2
29-2055	Surgical Technologists	8.1	Therapeutic Services	8	Health Science	Health Science	51.0811	Pathology/Pathologist Assistant.	8	Health Science	1	2
29-2055	Surgical Technologists	8.1	Therapeutic Services	8	Health Science	Health Science	51.1012	Sterile Processing Technology/Technician	8	Health Science	1	2
29-2055	Surgical Technologists	8.1	Therapeutic Services	8	Health Science	Health Science	51.0909	Surgical Technology/Technologist.	8	Health Science	1	2
29-2057	Ophthalmic Medical Technicians	8.1	Therapeutic Services	8	Health Science	Health Science	51.1803	Ophthalmic Technician/Technologist.	8	Health Science	1	2
29-2057	Ophthalmic Medical Technicians	8.1	Therapeutic Services	8	Health Science	Health Science	51.1802	Optomtric Technician/Assistant.	8	Health Science	1	2
29-2057	Ophthalmic Medical Technicians	8.1	Therapeutic Services	8	Health Science	Health Science	51.1804	Orthoptics/Orthoptist.	8	Health Science	1	2
29-2061	Licensed Practical and Licensed Vocational Nurses	8.1	Therapeutic Services	8	Health Science	Health Science	51.3901	Licensed Practical/Vocational Nurse Train	8	Health Science	1	2

Table 7 SOC_CIP Walk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clusters Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Clstr*	CrossWalk Rel Strength**
29-2061	Licensed Practical and Licensed Vocational Nurses	8.1	Therapeutic Services	8	Health Science	51.3999	Practical Nursing, Vocational Nursing and 8	8	Health Science	1	2
29-2061	Opticians, Dispensing	8.1	Therapeutic Services	8	Health Science	51.1801	Opticianry/Ophthalmic Dispensing Optic 8	8	Health Science	1	2
29-2091	Orthotists and Prosthetists	8.1	Therapeutic Services	8	Health Science	51.2312	Assistive/Augmentative Technology and 8	8	Health Science	1	2
29-2091	Orthotists and Prosthetists	8.1	Therapeutic Services	8	Health Science	51.2307	Orthotist/Prosthetist.	8	Health Science	1	2
29-2092	Hearing Aid Specialists	8.1	Therapeutic Services	8	Health Science	51.0918	Hearing Instrument Specialist.	8	Health Science	1	2
29-9091	Athletic Trainers	8.1	Therapeutic Services	8	Health Science	51.0913	Athletic Training/Trainer.	8	Health Science	1	2
29-9091	Athletic Trainers	8.1	Therapeutic Services	8	Health Science	31.0507	Physical Fitness Technician.	5	Education & Training	0	1
29-9092	Genetic Counselors	8.1	Therapeutic Services	8	Health Science	51.1509	Genetic Counseling/Counselor.	10	Human Services	0	1
29-9099	Healthcare Practitioners and Technical Workers, All Other	8.1	Therapeutic Services	8	Health Science	51.3702	Herbalism/Herbalist.	8	Health Science	1	2
29-9099	Healthcare Practitioners and Technical Workers, All Other	8.1	Therapeutic Services	8	Health Science	51.3302	Traditional Chinese Medicine and Chinese 8	8	Health Science	1	2
31-1011	Home Health Aides	8.1	Therapeutic Services	8	Health Science	51.2602	Home Health Aide/Home Attendant.	8	Health Science	1	2
31-1013	Psychiatric Aides	8.1	Therapeutic Services	8	Health Science	51.2601	Health Aide.	8	Health Science	1	2
31-1013	Psychiatric Aides	8.1	Therapeutic Services	8	Health Science	51.1502	Psychiatric/Mental Health Services Techn 8	8	Health Science	1	2
31-1014	Nursing Assistants	8.1	Therapeutic Services	8	Health Science	51.2601	Health Aide.	8	Health Science	1	2
31-1014	Nursing Assistants	8.1	Therapeutic Services	8	Health Science	51.3902	Nursing Assistant/Aide and Patient Care 8	8	Health Science	1	2
31-1014	Nursing Assistants	8.1	Therapeutic Services	8	Health Science	51.3999	Practical Nursing, Vocational Nursing 8	8	Health Science	1	2
31-2011	Occupational Therapy Assistants	8.1	Therapeutic Services	8	Health Science	51.0803	Occupational Therapist Assistant.	8	Health Science	1	2
31-2012	Occupational Therapy Aides	8.1	Therapeutic Services	8	Health Science	51.2604	Rehabilitation Aide.	8	Health Science	1	2
31-2021	Physical Therapist Assistants	8.1	Therapeutic Services	8	Health Science	51.0806	Physical Therapy Technician/Assistant.	8	Health Science	1	2
31-2022	Physical Therapist Aides	8.1	Therapeutic Services	8	Health Science	51.2604	Rehabilitation Aide.	8	Health Science	1	2
31-9091	Dental Assistants	8.1	Therapeutic Services	8	Health Science	51.0601	Dental Assisting/Assistant.	8	Health Science	1	2
31-9092	Medical Assistants	8.1	Therapeutic Services	8	Health Science	51.0809	Anesthesiologist Assistant.	8	Health Science	1	2
31-9092	Medical Assistants	8.1	Therapeutic Services	8	Health Science	51.0813	Chiropractic Assistant/Technician.	8	Health Science	1	2
31-9092	Medical Assistants	8.1	Therapeutic Services	8	Health Science	51.0716	Medical Administrative/Executive Assista 8	8	Health Science	1	2
31-9092	Medical Assistants	8.1	Therapeutic Services	8	Health Science	51.0713	Medical Laboratory Specialist/Code 8	8	Health Science	1	2
31-9092	Medical Assistants	8.1	Therapeutic Services	8	Health Science	51.0710	Medical Office Assistant/Specialist.	8	Health Science	1	2
31-9092	Medical Assistants	8.1	Therapeutic Services	8	Health Science	51.0712	Medical Reception/Receptionist.	8	Health Science	1	2
31-9092	Medical Assistants	8.1	Therapeutic Services	8	Health Science	51.0801	Medical/Clinical Assistant.	8	Health Science	1	2
19-1041	Epidemiologists	8.2	Diagnostic Services	8	Health Science	26.0401	Cell/Cellular Biology and Histology.	15	Science, Technology, Engineering & Mathemati	0	1
19-1041	Epidemiologists	8.2	Diagnostic Services	8	Health Science	51.2202	Environmental Health.	8	Health Science	1	2
19-1041	Epidemiologists	8.2	Diagnostic Services	8	Health Science	26.1309	Epidemiology.	15	Science, Technology, Engineering & Mathemati	0	1
19-1041	Epidemiologists	8.2	Diagnostic Services	8	Health Science	51.1401	Epidemiology.	15	Science, Technology, Engineering & Mathemati	0	1
29-2011	Medical and Clinical Laboratory Technologists	8.2	Diagnostic Services	8	Health Science	51.1005	Clinical Laboratory Science/Medical Tech 8	8	Health Science	1	2
29-2011	Medical and Clinical Laboratory Technologists	8.2	Diagnostic Services	8	Health Science	51.1099	Clinical/Medical Laboratory Science and 48	8	Health Science	1	2
29-2011	Medical and Clinical Laboratory Technologists	8.2	Diagnostic Services	8	Health Science	51.1010	Cytogenetics/Genetics/Clinical Genetics 8	8	Health Science	1	2
29-2011	Medical and Clinical Laboratory Technologists	8.2	Diagnostic Services	8	Health Science	51.1002	Cytotechnology/Cytotechnologist.	8	Health Science	1	2
29-2011	Medical and Clinical Laboratory Technologists	8.2	Diagnostic Services	8	Health Science	51.1007	Histologic Technology/Histotechnologist.	8	Health Science	1	2
29-2012	Medical and Clinical Laboratory Technicians	8.2	Diagnostic Services	8	Health Science	51.1001	Blood Bank Technology Specialist.	8	Health Science	1	2
29-2012	Medical and Clinical Laboratory Technicians	8.2	Diagnostic Services	8	Health Science	51.1002	Clinical/Medical Laboratory Assistant.	8	Health Science	1	2
29-2012	Medical and Clinical Laboratory Technicians	8.2	Diagnostic Services	8	Health Science	51.1099	Clinical/Medical Laboratory Science and 48	8	Health Science	1	2
29-2012	Medical and Clinical Laboratory Technicians	8.2	Diagnostic Services	8	Health Science	51.1004	Clinical/Medical Laboratory Technician.	8	Health Science	1	2
29-2012	Medical and Clinical Laboratory Technicians	8.2	Diagnostic Services	8	Health Science	51.1003	Hematology Technology/Technician.	8	Health Science	1	2
29-2012	Medical and Clinical Laboratory Technicians	8.2	Diagnostic Services	8	Health Science	51.1008	Histologic Technician.	8	Health Science	1	2
29-2031	Cardiovascular Technologists and Technicians	8.2	Diagnostic Services	8	Health Science	51.0915	Cardiopulmonary Technology/Technologi 8	8	Health Science	1	2
29-2031	Cardiovascular Technologists and Technicians	8.2	Diagnostic Services	8	Health Science	51.0901	Cardiovascular Technology/Technologist 8	8	Health Science	1	2
29-2031	Cardiovascular Technologists and Technicians	8.2	Diagnostic Services	8	Health Science	51.0922	Electrocardiograph Technology/Technicia 8	8	Health Science	1	2
29-2031	Cardiovascular Technologists and Technicians	8.2	Diagnostic Services	8	Health Science	51.0906	Perfusion Technology/Perfusionist.	8	Health Science	1	2
29-2032	Diagnostic Medical Sonographers	8.2	Diagnostic Services	8	Health Science	51.0910	Diagnostic Medical Sonography/Sonograp 8	8	Health Science	1	2
29-2033	Nuclear Medicine Technologists	8.2	Diagnostic Services	8	Health Science	51.0905	Nuclear Medical Technology/Technologi 8	8	Health Science	1	2
29-2034	Radiologic Technologists	8.2	Diagnostic Services	8	Health Science	51.0919	Mammography Technician/Technology.	8	Health Science	1	2
29-2034	Radiologic Technologists	8.2	Diagnostic Services	8	Health Science	51.0907	Medical Radiologic Technology/Science - 8	8	Health Science	1	2
29-2034	Radiologic Technologists	8.2	Diagnostic Services	8	Health Science	51.0911	Radiologic Technology/Science - Radiogr 8	8	Health Science	1	2
29-2035	Magnetic Resonance Imaging Technologists	8.2	Diagnostic Services	8	Health Science	51.0920	Magnetic Resonance Imaging (MRI) Techn 8	8	Health Science	1	2
29-2035	Veterinary Technologists and Technicians	8.2	Diagnostic Services	8	Health Science	51.0908	Veterinary Animal Health Technology/Te 8	8	Health Science	1	2
29-2099	Health Technologists and Technicians, All Other	8.2	Diagnostic Services	8	Health Science	51.0903	Electroneurodiagnostic/Electroencephalo 8	8	Health Science	1	2
29-2099	Health Technologists and Technicians, All Other	8.2	Diagnostic Services	8	Health Science	51.0914	Gene/Genetic Therapy.	8	Health Science	1	2
29-2099	Health Technologists and Technicians, All Other	8.2	Diagnostic Services	8	Health Science	51.0917	Polysomnography.	8	Health Science	1	2
29-2099	Health Technologists and Technicians, All Other	8.2	Diagnostic Services	8	Health Science	51.0814	Radiologist Assistant.	8	Health Science	1	2
29-2099	Health Technologists and Technicians, All Other	8.2	Diagnostic Services	8	Health Science	51.1011	Renal/Dialysis Technician/Technician.	8	Health Science	1	2
29-2071	Medical Records and Health Information Technicians	8.3	Health Informatics	8	Health Science	51.0707	Health Information/Medical Records Tech 8	8	Health Science	1	2
29-2071	Medical Records and Health Information Technicians	8.3	Health Informatics	8	Health Science	51.0713	Medical Insurance Coding Specialist/Code 8	8	Health Science	1	2
31-9094	Medical Transcriptionists	8.3	Health Informatics	8	Health Science	51.0708	Medical Transcription/Transcriptionist.	8	Health Science	1	2
43-6013	Medical Secretaries	8.3	Health Informatics	8	Health Science	51.0716	Medical Administrative/Executive Assista 8	8	Health Science	1	2
43-6013	Medical Secretaries	8.3	Health Informatics	8	Health Science	51.0714	Medical Insurance Specialist/Medical Biller 8	8	Health Science	1	2
43-6013	Medical Secretaries	8.3	Health Informatics	8	Health Science	51.0710	Medical Office Assistant/Specialist.	8	Health Science	1	2
11-9111	Medical and Health Services Managers	8.4	Support Services	8	Health Science	51.0719	Clinical Research Coordinator.	8	Health Science	1	2
11-9111	Medical and Health Services Managers	8.4	Support Services	8	Health Science	51.2208	Community Health and Preventive Medici 8	8	Health Science	1	2
11-9111	Medical and Health Services Managers	8.4	Support Services	8	Health Science	51.0706	Health Information/Medical Records Adm 8	8	Health Science	1	2
11-9111	Medical and Health Services Managers	8.4	Support Services	8	Health Science	44.0503	Health Policy Analysis.	7	Governments & Public Administration	0	1
11-9111	Medical and Health Services Managers	8.4	Support Services	8	Health Science	51.2211	Health Services Administration.	8	Health Science	1	2
11-9111	Medical and Health Services Managers	8.4	Support Services	8	Health Science	51.0704	Health Unit Manager/Ward Supervisor.	8	Health Science	1	2
11-9111	Medical and Health Services Managers	8.4	Support Services	8	Health Science	51.0701	Health/Health Care Administration/Manag 8	8	Health Science	1	2
11-9111	Medical and Health Services Managers	8.4	Support Services	8	Health Science	51.0702	Hospital and Health Care Facilities Admini 8	8	Health Science	1	2
11-9111	Medical and Health Services Managers	8.4	Support Services	8	Health Science	51.0718	Long Term Care Administration/Managen 8	8	Health Science	1	2
11-9111	Medical and Health Services Managers	8.4	Support Services	8	Health Science	51.3802	Nursing Administration.	8	Health Science	1	2
11-9111	Medical and Health Services Managers	8.4	Support Services	8	Health Science	51.2818	Nursing Administration.	8	Health Science	1	2
11-9111	Medical and Health Services Managers	8.4	Support Services	8	Health Science	51.2201	Public Health, General.	8	Health Science	1	2
31-9093	Medical Equipment Preparers	8.4	Support Services	8	Health Science	51.1012	Sterile Processing Technology/Technicia 8	8	Health Science	1	2
31-9097	Phlebotomists	8.4	Support Services	8	Health Science	51.1009	Phlebotomy Technician/Phlebotomist.	8	Health Science	1	2
31-9099	Healthcare Support Workers, All Other	8.4	Support Services	8	Health Science	51.0815	Lactation Consultant.	8	Health Science	1	2
31-9099	Healthcare Support Workers, All Other	8.4	Support Services	8	Health Science	51.2603	Medication Aide.	8	Health Science	1	2
31-9099	Healthcare Support Workers, All Other	8.4	Support Services	8	Health Science	51.0814	Radiologist Assistant.	8	Health Science	1	2
31-9099	Healthcare Support Workers, All Other	8.4	Support Services	8	Health Science	51.2604	Rehabilitation Aide.	8	Health Science	1	2
31-9099	Healthcare Support Workers, All Other	8.4	Support Services	8	Health Science	51.0816	Speech-Language Pathology Assistant.	8	Health Science	1	2
17-2031	Biomedical Engineers	8.5	Biotechnology Research and Development	8	Health Science	14.0501	Bioengineering and Biomedical Engineerin 15	15	Science, Technology, Engineering & Mathemati	0	1
17-2031	Biomedical Engineers	8.5	Biotechnology Research and Development	8	Health Science	14.4501	Biological/Biosystems Engineering.	15	Science, Technology, Engineering & Mathemati	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0912	Aerospace Physiology and Medicine.	15	Science, Technology, Engineering & Mathemati	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0403	Anatomy.	15	Science, Technology, Engineering & Mathemati	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0202	Biochemistry.	15	Science, Technology, Engineering & Mathemati	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0102	Biomedical Sciences, General.	15	Science, Technology, Engineering & Mathemati	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0203	Biophysics.	15	Science, Technology, Engineering & Mathemati	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1102	Biostatistics.	15	Science, Technology, Engineering & Mathemati	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0907	Cardiovascular Science.	15	Science, Technology, Engineering & Mathemati	0	1

Table 7 SOC_CIP Xwalk
Career_Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clusters Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Cstr*	CrossWalk Rel Strength**
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0903	Cell Physiology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0401	Cell/Cellular Biology and Histology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0904	Endocrinology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1006	Environmental Toxicology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1309	Epidemiology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0908	Exercise Physiology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	30.1101	Gerontology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0806	Human/Medical Genetics.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0507	Immunology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0503	Medical Microbiology and Bacteriology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1401	Medical Scientist.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0204	Molecular Biology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1401	Molecular Medicine.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1002	Molecular Pharmacology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0902	Molecular Physiology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1005	Molecular Toxicology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1502	Neuroanatomy.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1503	Neurobiology and Anatomy.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1504	Neurobiology and Behavior.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1599	Neurobiology and Neurosciences, Other.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1003	Neuropharmacology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0911	Oncology and Cancer Biology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0910	Pathology/Experimental Pathology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	51.2010	Pharmaceutical Sciences.	8	Health Science	1	2
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1099	Pharmacology and Toxicology, Other.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1007	Pharmacology and Toxicology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1001	Pharmacology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0901	Physiology, General.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0999	Physiology, Pathology, and Related Science	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0905	Reproductive Biology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.1004	Toxicology.	15	Science, Technology, Engineering & Mathematics	0	1
19-1042	Medical Scientists, Except Epidemiologists	8.5	Biotechnology Research and Development	8	Health Science	26.0509	Vision Science/Physiological Optics.	15	Science, Technology, Engineering & Mathematics	0	1
11-9051	Food Service Managers	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0509	Culinary Science/Culinology.	9	Agriculture, Food & Natural Resources	0	1
11-9051	Food Service Managers	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	19.0505	Foodservice Systems Administration/Mar	9	Hospitality & Tourism	1	2
11-9051	Food Service Managers	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	52.0901	Hospitality Administration/Management, 9	9	Hospitality & Tourism	1	2
11-9051	Food Service Managers	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	52.0909	Hotel, Motel, and Restaurant Management 9	9	Hospitality & Tourism	1	2
11-9051	Food Service Managers	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	52.0904	Hotel/Motel Administration/Management 9	9	Hospitality & Tourism	1	2
11-9051	Food Service Managers	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0504	Restaurant, Culinary, and Catering Management 9	9	Hospitality & Tourism	1	2
11-9051	Food Service Managers	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0501	Restaurant, Culinary, and Catering Management 9	9	Hospitality & Tourism	1	2
11-9051	Food Service Managers	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0510	Wine Steward/Sommelier.	9	Hospitality & Tourism	1	2
35-1011	Chefs and Head Cooks	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0501	Baking and Pastry Arts/Baker/Pastry Che	9	Hospitality & Tourism	1	2
35-1011	Chefs and Head Cooks	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0500	Cooking and Related Culinary Arts, Gener	9	Hospitality & Tourism	1	2
35-1011	Chefs and Head Cooks	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0503	Culinary Arts/Chef Training.	9	Hospitality & Tourism	1	2
35-1011	Chefs and Head Cooks	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0509	Culinary Science/Culinology.	1	Agriculture, Food & Natural Resources	0	1
35-1011	Chefs and Head Cooks	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0504	Restaurant, Culinary, and Catering Manag	9	Hospitality & Tourism	1	2
35-1011	Chefs and Head Cooks	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0500	Cooking and Related Culinary Arts, Gener	9	Hospitality & Tourism	1	2
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0503	Culinary Arts/Chef Training.	9	Hospitality & Tourism	1	2
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0507	Food Service, Waiter/Waitress, and Dinin	9	Hospitality & Tourism	1	2
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	19.0505	Foodservice Systems Administration/Mar	8	Health Science	0	1
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0504	Restaurant, Culinary, and Catering Manag	9	Hospitality & Tourism	1	2
35-2012	Cooks, Institution and Cafeteria	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0500	Cooking and Related Culinary Arts, Gener	9	Hospitality & Tourism	1	2
35-2012	Cooks, Institution and Cafeteria	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0505	Food Preparation/Professional Cooking/K 9	9	Hospitality & Tourism	1	2
35-2012	Cooks, Institution and Cafeteria	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	19.0505	Foodservice Systems Administration/Mar	8	Health Science	0	1
35-2012	Cooks, Institution and Cafeteria	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0509	Institution Food Workers.	9	Hospitality & Tourism	1	2
35-2013	Cooks, Private Household	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0503	Culinary Arts/Chef Training.	9	Hospitality & Tourism	1	2
35-2013	Cooks, Private Household	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0505	Food Preparation/Professional Cooking/K 9	9	Hospitality & Tourism	1	2
35-2013	Cooks, Private Household	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0504	Restaurant, Culinary, and Catering Manag	9	Hospitality & Tourism	1	2
35-2014	Cooks, Restaurant	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0500	Cooking and Related Culinary Arts, Gener	9	Hospitality & Tourism	1	2
35-2014	Cooks, Restaurant	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0503	Culinary Arts/Chef Training.	9	Hospitality & Tourism	1	2
35-2019	Cooks, All Other	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0500	Cooking and Related Culinary Arts, Gener	9	Hospitality & Tourism	1	2
35-2019	Cooks, All Other	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0503	Culinary Arts/Chef Training.	9	Hospitality & Tourism	1	2
35-2019	Cooks, All Other	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0509	Culinary Science/Culinology.	1	Agriculture, Food & Natural Resources	0	1
35-2019	Cooks, All Other	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0505	Food Preparation/Professional Cooking/K 9	9	Hospitality & Tourism	1	2
35-3011	Bartenders	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0502	Bartending/Bartender.	9	Hospitality & Tourism	1	2
51-3011	Bakers	9.1	Restaurants and Food/Beverage Services	9	Hospitality & Tourism	12.0501	Baking and Pastry Arts/Baker/Pastry Che	9	Hospitality & Tourism	1	2
11-9081	Lodging Managers	9.2	Lodging	9	Hospitality & Tourism	52.0901	Hospitality Administration/Management, 9	9	Hospitality & Tourism	1	2
11-9081	Lodging Managers	9.2	Lodging	9	Hospitality & Tourism	52.1910	Hospitality and Recreation Marketing Ope	9	Hospitality & Tourism	1	2
11-9081	Lodging Managers	9.2	Lodging	9	Hospitality & Tourism	52.0909	Hotel, Motel, and Restaurant Management 9	9	Hospitality & Tourism	1	2
11-9081	Lodging Managers	9.2	Lodging	9	Hospitality & Tourism	52.0904	Hotel/Motel Administration/Management 9	9	Hospitality & Tourism	1	2
11-9081	Lodging Managers	9.2	Lodging	9	Hospitality & Tourism	52.0906	Resort Management.	9	Hospitality & Tourism	1	2
11-9081	Lodging Managers	9.2	Lodging	9	Hospitality & Tourism	52.0905	Restaurant/Food Services Management. 9	9	Hospitality & Tourism	1	2
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	9.2	Lodging	9	Hospitality & Tourism	46.0401	Building/Property Maintenance.	2	Architecture & Construction	0	1
39-7012	Travel Guides	9.3	Travel & Tourism	9	Hospitality & Tourism	52.0903	Tourism and Travel Services Management 9	9	Hospitality & Tourism	1	2
41-3041	Travel Agents	9.3	Travel & Tourism	9	Hospitality & Tourism	52.1804	Selling Skills and Sales Operations.	14	Marketing	0	1
41-3041	Travel Agents	9.3	Travel & Tourism	9	Hospitality & Tourism	52.1905	Tourism and Travel Services Marketing O	9	Hospitality & Tourism	1	2
19-2019	Carnival Managers	9.4	Recreation, Amusements & Attractions	9	Hospitality & Tourism	52.0909	Recreation, Amusement, and Casino Manag	9	Hospitality & Tourism	1	2
27-2021	Athletes and Sports Competitors	9.4	Recreation, Amusements & Attractions	9	Hospitality & Tourism	31.0501	Health and Physical Education/Fitness, Gr 5	5	Education & Training	0	1
39-1011	Gaming Supervisors	9.4	Recreation, Amusements & Attractions	9	Hospitality & Tourism	52.0908	Casino Management.	4	Business Management & Administration	0	1
39-1012	Slot Supervisors	9.4	Recreation, Amusements & Attractions	9	Hospitality & Tourism	52.0908	Casino Management.	4	Business Management & Administration	0	1
39-2011	Animal Trainers	9.4	Recreation, Amusements & Attractions	9	Hospitality & Tourism	01.0505	Animal Training.	1	Agriculture, Food & Natural Resources	0	1
39-2011	Animal Trainers	9.4	Recreation, Amusements & Attractions	9	Hospitality & Tourism	01.0507	Equestrian/Equine Studies.	1	Agriculture, Food & Natural Resources	0	1
39-9011	Childcare Workers	10.1	Early Childhood Development & Services	10	Human Services	19.0709	Child Care Provider/Assistant.	10	Human Services	1	2
19-3031	Clinical, Counseling, and School Psychologists	10.2	Counseling & Mental Health Services	10	Human Services	42.2814	Applied Behavior Analysis.	10	Human Services	1	2
19-3031	Clinical, Counseling, and School Psychologists	10.2	Counseling & Mental Health Services	10	Human Services	42.2807	Clinical Child Psychology.	10	Human Services	1	2
19-3031	Clinical, Counseling, and School Psychologists	10.2	Counseling & Mental Health Services	10	Human Services	42.2801	Clinical Psychology.	10	Human Services	1	2
19-3031	Clinical, Counseling, and School Psychologists	10.2	Counseling & Mental Health Services	10	Human Services	42.2803	Counseling Psychology.	10	Human Services	1	2
19-3031	Clinical, Counseling, and School Psychologists	10.2	Counseling & Mental Health Services	10	Human Services	42.2703	Developmental and Child Psychology.	10	Human Services	1	2
19-3031	Clinical, Counseling, and School Psychologists	10.2	Counseling & Mental Health Services	10	Human Services	42.2809	Geropsychology.	10	Human Services	1	2
19-3031	Clinical, Counseling, and School Psychologists	10.2	Counseling & Mental Health Services	10	Human Services	42.2810	Health/Medical Psychology.	10	Human Services	1	2
19-3031	Clinical, Counseling, and School Psychologists	10.2	Counseling & Mental Health Services	10	Human Services	51.1507	Psychoanalysis and Psychotherapy.	8	Health Science	0	1
19-3031	Clinical, Counseling, and School Psychologists	10.2	Counseling & Mental Health Services	10	Human Services	42.0101	Psychology, General.	10	Human Services	1	2
19-3031	Clinical, Counseling, and School Psychologists	10.2	Counseling & Mental Health Services	10	Human Services	42.2805	School Psychology.	10	Human Services	1	2
19-3032	Industrial-Organizational Psychologists	10.2	Counseling & Mental Health Services	10	Human Services	42.2804	Industrial and Organizational Psychology.	10	Human Services	1	2

Table 7 SOC_CIP Walk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clusters Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Clstr*	CrossWalk Rel Strength**
19-3032	Industrial-Organizational Psychologists	10.2	Counseling & Mental Health Services	10	Human Services	42.0101	Psychology, General.	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2814	Applied Behavior Analysis.	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2813	Applied Psychology.	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	30.1701	Behavioral Sciences.	15	Science, Technology, Engineering & Mathemati	0	1
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2899	Clinical, Counseling and Applied Psycholo	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2701	Cognitive Psychology and Psycholinguist	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2802	Community Psychology.	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2702	Comparative Psychology.	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2805	Educational Psychology.	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2808	Environmental Psychology.	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2704	Experimental Psychology.	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2811	Family Psychology.	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2812	Forensic Psychology.	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2705	Personality Psychology.	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2706	Physiological Psychology/Psychobiology.	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.0101	Psychology, General.	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.9999	Psychology, Other.	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2708	Psychometrics and Quantitative Psycholo	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2709	Psychopharmacology.	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2799	Research and Experimental Psychology, C	10	Human Services	1	2
19-3039	Psychologists, All Other	10.2	Counseling & Mental Health Services	10	Human Services	42.2707	Social Psychology.	10	Human Services	1	2
21-1011	Substance Abuse and Behavioral Disorder Counselors	10.2	Counseling & Mental Health Services	10	Human Services	51.1506	Clinical Pastoral Counseling/Patient Coun	10	Human Services	1	2
21-1011	Substance Abuse and Behavioral Disorder Counselors	10.2	Counseling & Mental Health Services	10	Human Services	51.1503	Clinical/Medical Social Work.	10	Human Services	1	2
21-1011	Substance Abuse and Behavioral Disorder Counselors	10.2	Counseling & Mental Health Services	10	Human Services	42.1501	Substance Abuse/Addiction Counseling.	10	Human Services	1	2
21-1013	Marriage and Family Therapists	10.2	Counseling & Mental Health Services	10	Human Services	51.1506	Clinical Pastoral Counseling/Patient Coun	10	Human Services	1	2
21-1013	Marriage and Family Therapists	10.2	Counseling & Mental Health Services	10	Human Services	51.1505	Marriage and Family Therapy/Counseling.	10	Human Services	1	2
21-1013	Marriage and Family Therapists	10.2	Counseling & Mental Health Services	10	Human Services	44.0701	Social Work.	10	Human Services	1	2
21-1014	Mental Health Counselors	10.2	Counseling & Mental Health Services	10	Human Services	51.1506	Clinical Pastoral Counseling/Patient Coun	10	Human Services	1	2
21-1014	Mental Health Counselors	10.2	Counseling & Mental Health Services	10	Human Services	51.1503	Clinical/Medical Social Work.	10	Human Services	1	2
21-1014	Mental Health Counselors	10.2	Counseling & Mental Health Services	10	Human Services	51.1508	Mental Health Counseling/Counselor.	10	Human Services	1	2
21-1014	Mental Health Counselors	10.2	Counseling & Mental Health Services	10	Human Services	51.1501	Substance Abuse/Addiction Counseling.	10	Human Services	1	2
21-1012	Rehabilitation Counselors	10.2	Counseling & Mental Health Services	10	Human Services	51.2312	Assistive and Adaptive Technology and	8	Health Science	0	1
21-1015	Rehabilitation Counselors	10.2	Counseling & Mental Health Services	10	Human Services	51.2314	Rehabilitation Science.	8	Health Science	0	1
21-1015	Rehabilitation Counselors	10.2	Counseling & Mental Health Services	10	Human Services	51.2310	Vocational Rehabilitation Counseling/Cou	10	Human Services	1	2
21-1019	Counselors, All Other	10.2	Counseling & Mental Health Services	10	Human Services	51.1506	Clinical Pastoral Counseling/Patient Coun	10	Human Services	1	2
21-1019	Counselors, All Other	10.2	Counseling & Mental Health Services	10	Human Services	44.0701	Social Work.	10	Human Services	1	2
21-1023	Mental Health and Substance Abuse Social Workers	10.2	Counseling & Mental Health Services	10	Human Services	51.1503	Clinical/Medical Social Work.	10	Human Services	1	2
21-1023	Mental Health and Substance Abuse Social Workers	10.2	Counseling & Mental Health Services	10	Human Services	44.0799	Social Work, Other.	10	Human Services	1	2
21-1023	Mental Health and Substance Abuse Social Workers	10.2	Counseling & Mental Health Services	10	Human Services	44.0701	Social Work.	10	Human Services	1	2
11-9151	Social and Community Service Managers	10.3	Family & Community Services	10	Human Services	52.0201	Business Administration and Management	4	Business Management & Administration	0	1
11-9151	Social and Community Service Managers	10.3	Family & Community Services	10	Human Services	52.0101	Business/Commerce, General.	4	Business Management & Administration	0	1
11-9151	Social and Community Service Managers	10.3	Family & Community Services	10	Human Services	44.0201	Community Organization and Advocacy.	10	Human Services	1	2
11-9151	Social and Community Service Managers	10.3	Family & Community Services	10	Human Services	44.0000	Human Services, General.	10	Human Services	1	2
11-9151	Social and Community Service Managers	10.3	Family & Community Services	10	Human Services	52.0206	Non-Profit/Public/Organizational Manager	4	Business Management & Administration	0	1
11-9151	Social and Community Service Managers	10.3	Family & Community Services	10	Human Services	44.0401	Public Administration.	7	Government & Public Administration	0	1
11-9151	Social and Community Service Managers	10.3	Family & Community Services	10	Human Services	44.0799	Social Work, Other.	10	Human Services	1	2
11-9151	Social and Community Service Managers	10.3	Family & Community Services	10	Human Services	44.0701	Social Work.	10	Human Services	1	2
11-9151	Social and Community Service Managers	10.3	Family & Community Services	10	Human Services	44.0702	Youth Services/Administration.	10	Human Services	1	2
21-1021	Child, Family, and School Social Workers	10.3	Family & Community Services	10	Human Services	43.0110	Juvenile Corrections.	12	Law, Public Safety, Corrections & Security	0	1
21-1021	Child, Family, and School Social Workers	10.3	Family & Community Services	10	Human Services	44.0799	Social Work, Other.	10	Human Services	1	2
21-1021	Child, Family, and School Social Workers	10.3	Family & Community Services	10	Human Services	44.0701	Social Work.	10	Human Services	1	2
21-1021	Child, Family, and School Social Workers	10.3	Family & Community Services	10	Human Services	44.0702	Youth Services/Administration.	10	Human Services	1	2
21-1022	Healthcare Social Workers	10.3	Family & Community Services	10	Human Services	51.1503	Clinical/Medical Social Work.	10	Human Services	1	2
21-1022	Healthcare Social Workers	10.3	Family & Community Services	10	Human Services	44.0799	Social Work, Other.	10	Human Services	1	2
21-1022	Healthcare Social Workers	10.3	Family & Community Services	10	Human Services	44.0701	Social Work.	10	Human Services	1	2
21-1029	Social Workers, All Other	10.3	Family & Community Services	10	Human Services	44.0799	Social Work, Other.	10	Human Services	1	2
21-1029	Social Workers, All Other	10.3	Family & Community Services	10	Human Services	44.0701	Social Work.	10	Human Services	1	2
21-1091	Health Educators	10.3	Family & Community Services	10	Human Services	51.2212	Behavioral Aspects of Health.	8	Health Science	0	1
21-1091	Health Educators	10.3	Family & Community Services	10	Human Services	51.1504	Community Health Services/Liaison/Cour	10	Human Services	1	2
21-1091	Health Educators	10.3	Family & Community Services	10	Human Services	51.0504	Dental Public Health and Education.	8	Health Science	0	1
21-1091	Health Educators	10.3	Family & Community Services	10	Human Services	51.0001	Health and Wellness, General.	8	Health Science	0	1
21-1091	Health Educators	10.3	Family & Community Services	10	Human Services	09.0905	Health Communication.	14	Marketing	0	1
21-1091	Health Educators	10.3	Family & Community Services	10	Human Services	51.2210	International Public Health/International	8	Health Science	0	1
21-1091	Health Educators	10.3	Family & Community Services	10	Human Services	51.2209	Maternal and Child Health.	8	Health Science	0	1
21-1091	Health Educators	10.3	Family & Community Services	10	Human Services	51.2207	Public Health Education and Promotion.	5	Education & Training	0	1
21-1091	Health Educators	10.3	Family & Community Services	10	Human Services	51.2201	Public Health, General.	8	Health Science	0	1
21-1093	Social and Human Service Assistants	10.3	Family & Community Services	10	Human Services	19.0710	Developmental Services Worker.	9	Hospitality & Tourism	0	1
21-1093	Social and Human Service Assistants	10.3	Family & Community Services	10	Human Services	44.0000	Human Services, General.	10	Human Services	1	2
21-1094	Community Health Workers	10.3	Family & Community Services	10	Human Services	51.2212	Behavioral Aspects of Health.	8	Health Science	0	1
21-1094	Community Health Workers	10.3	Family & Community Services	10	Human Services	51.2208	Community Health and Preventive Medic	8	Health Science	0	1
21-1094	Community Health Workers	10.3	Family & Community Services	10	Human Services	51.1504	Community Health Services/Liaison/Cour	10	Human Services	1	2
21-1094	Community Health Workers	10.3	Family & Community Services	10	Human Services	51.0001	Health and Wellness, General.	8	Health Science	0	1
21-1094	Community Health Workers	10.3	Family & Community Services	10	Human Services	09.0905	Health Communication.	14	Marketing	0	1
21-1094	Community Health Workers	10.3	Family & Community Services	10	Human Services	51.2209	Maternal and Child Health.	8	Health Science	0	1
21-1094	Community Health Workers	10.3	Family & Community Services	10	Human Services	51.2207	Public Health Education and Promotion.	5	Education & Training	0	1
21-1094	Community Health Workers	10.3	Family & Community Services	10	Human Services	51.2201	Public Health, General.	8	Health Science	0	1
21-1099	Community and Social Service Specialists, All Other	10.3	Family & Community Services	10	Human Services	30.1701	Behavioral Sciences.	15	Science, Technology, Engineering & Mathemati	0	1
21-1099	Community and Social Service Specialists, All Other	10.3	Family & Community Services	10	Human Services	44.0201	Community Organization and Advocacy.	10	Human Services	1	2
21-1099	Community and Social Service Specialists, All Other	10.3	Family & Community Services	10	Human Services	19.0710	Developmental Services Worker.	9	Hospitality & Tourism	0	1
21-1099	Community and Social Service Specialists, All Other	10.3	Family & Community Services	10	Human Services	44.0000	Human Services, General.	10	Human Services	1	2
21-2011	Clergy	10.3	Family & Community Services	10	Human Services	51.1506	Clinical Pastoral Counseling/Patient Coun	10	Human Services	1	2
21-2011	Clergy	10.3	Family & Community Services	10	Human Services	39.0602	Divinity/Ministry.	10	Human Services	1	2
21-2011	Clergy	10.3	Family & Community Services	10	Human Services	39.0101	Pastoral Studies/Counseling.	8	Human Services	1	2
21-2011	Clergy	10.3	Family & Community Services	10	Human Services	39.0604	Pre-Theology/Pre-Ministerial Studies.	10	Human Services	1	2
21-2011	Clergy	10.3	Family & Community Services	10	Human Services	39.0605	Rabbinical Studies.	10	Human Services	1	2
21-2011	Clergy	10.3	Family & Community Services	10	Human Services	39.0699	Theological and Ministerial Studies, Other	10	Human Services	1	2
21-2011	Clergy	10.3	Family & Community Services	10	Human Services	39.0601	Theology/Theological Studies.	10	Human Services	1	2
21-2011	Clergy	10.3	Family & Community Services	10	Human Services	39.0703	Urban Ministry.	10	Human Services	1	2
21-2011	Clergy	10.3	Family & Community Services	10	Human Services	39.0702	Youth Ministry.	10	Human Services	1	2
21-2021	Directors, Religious Activities and Education	10.3	Family & Community Services	10	Human Services	39.0301	Bible/Biblical Studies.	10	Human Services	1	2
21-2021	Directors, Religious Activities and Education	10.3	Family & Community Services	10	Human Services	39.0705	Lay Ministry.	10	Human Services	1	2
21-2021	Directors, Religious Activities and Education	10.3	Family & Community Services	10	Human Services	39.0301	Missions/Missionary Studies and Missiolog	10	Human Services	1	2
21-2021	Directors, Religious Activities and Education	10.3	Family & Community Services	10	Human Services	39.0401	Religious Education.	10	Human Services	1	2

Table 7 SOC_CIP Walk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clusters Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Cstr*	CrossWalk Rel Strength**
21-2021	Directors, Religious Activities and Education	10.3	Family & Community Services	10	Human Services	39.0704	Women's Ministry.	10	Human Services	1	2
21-2021	Directors, Religious Activities and Education	10.3	Family & Community Services	10	Human Services	39.0702	Youth Ministry.	10	Human Services	1	2
21-2099	Religious Workers, All Other	10.3	Family & Community Services	10	Human Services	39.0705	Lay Ministry.	10	Human Services	1	2
21-2099	Religious Workers, All Other	10.3	Family & Community Services	10	Human Services	39.0701	Pastoral Studies/Counseling.	10	Human Services	1	2
21-2099	Religious Workers, All Other	10.3	Family & Community Services	10	Human Services	39.0699	Theological and Ministerial Studies, Other	10	Human Services	1	2
21-2099	Religious Workers, All Other	10.3	Family & Community Services	10	Human Services	39.0704	Women's Ministry.	10	Human Services	1	2
11-9061	Funeral Service Managers	10.4	Personal Care Services	10	Human Services	12.0302	Funeral Direction/Service.	10	Human Services	1	2
11-9061	Funeral Service Managers	10.4	Personal Care Services	10	Human Services	12.0301	Funeral Service and Mortuary Science, Ge	10	Human Services	1	2
11-9061	Funeral Service Managers	10.4	Personal Care Services	10	Human Services	12.0399	Funeral Service and Mortuary Science, Ot	10	Human Services	1	2
31-9011	Massage Therapists	10.4	Personal Care Services	10	Human Services	51.3502	Asian Bodywork Therapy.	8	Health Science	0	1
31-9011	Massage Therapists	10.4	Personal Care Services	10	Human Services	51.3501	Massage Therapy/Therapeutic Massage.	8	Health Science	0	1
31-9011	Massage Therapists	10.4	Personal Care Services	10	Human Services	51.3503	Somatic Bodywork.	8	Health Science	0	1
39-1021	First-Line Supervisors of Personal Service Workers	10.4	Personal Care Services	10	Human Services	12.0412	Salon/Beauty Salon Management/Manage	10	Human Services	1	2
39-4011	Embalmers	10.4	Personal Care Services	10	Human Services	12.0301	Funeral Service and Mortuary Science, Ge	10	Human Services	1	2
39-4011	Embalmers	10.4	Personal Care Services	10	Human Services	12.0303	Mortuary Science and Embalming/Embaln	10	Human Services	1	2
39-4031	Morticians, Undertakers, and Funeral Directors	10.4	Personal Care Services	10	Human Services	12.0302	Funeral Direction/Service.	10	Human Services	1	2
39-4031	Morticians, Undertakers, and Funeral Directors	10.4	Personal Care Services	10	Human Services	12.0301	Funeral Service and Mortuary Science, Ge	10	Human Services	1	2
39-4031	Morticians, Undertakers, and Funeral Directors	10.4	Personal Care Services	10	Human Services	12.0399	Funeral Service and Mortuary Science, Ot	10	Human Services	1	2
39-5011	Barbers	10.4	Personal Care Services	10	Human Services	12.0402	Barbering/Barber.	10	Human Services	1	2
39-5011	Barbers	10.4	Personal Care Services	10	Human Services	12.0413	Cosmetology, Barber/Styling, and Nail Ins	10	Human Services	1	2
39-5011	Barbers	10.4	Personal Care Services	10	Human Services	12.0407	Hair Styling/Stylist and Hair Design.	10	Human Services	1	2
39-5011	Barbers	10.4	Personal Care Services	10	Human Services	12.0412	Salon/Beauty Salon Management/Manage	10	Human Services	1	2
39-5012	Hairdressers, Hairstylists, and Cosmetologists	10.4	Personal Care Services	10	Human Services	12.0499	Cosmetology and Related Personal Groom	10	Human Services	1	2
39-5012	Hairdressers, Hairstylists, and Cosmetologists	10.4	Personal Care Services	10	Human Services	12.0413	Cosmetology, Barber/Styling, and Nail Ins	10	Human Services	1	2
39-5012	Hairdressers, Hairstylists, and Cosmetologists	10.4	Personal Care Services	10	Human Services	12.0401	Cosmetology/Cosmetologist, General.	10	Human Services	1	2
39-5012	Hairdressers, Hairstylists, and Cosmetologists	10.4	Personal Care Services	10	Human Services	12.0404	Electrolysis/Electrology and Electrolysis	110	Human Services	1	2
39-5012	Hairdressers, Hairstylists, and Cosmetologists	10.4	Personal Care Services	10	Human Services	12.0407	Hair Styling/Stylist and Hair Design.	10	Human Services	1	2
39-5012	Hairdressers, Hairstylists, and Cosmetologists	10.4	Personal Care Services	10	Human Services	12.0406	Make-Up Artist/Specialist.	3	Arts, Audio/Video Technology & Communicati	0	1
39-5012	Hairdressers, Hairstylists, and Cosmetologists	10.4	Personal Care Services	10	Human Services	12.0411	Permanent Cosmetics/Makeup and Tatto	10	Human Services	1	2
39-5012	Hairdressers, Hairstylists, and Cosmetologists	10.4	Personal Care Services	10	Human Services	12.0412	Salon/Beauty Salon Management/Manage	10	Human Services	1	2
39-5092	Manicurists and Pedicurists	10.4	Personal Care Services	10	Human Services	12.0401	Cosmetology/Cosmetologist, General.	10	Human Services	1	2
39-5092	Manicurists and Pedicurists	10.4	Personal Care Services	10	Human Services	12.0411	Nail Technician/Manicurist.	10	Human Services	1	2
39-5094	Skincare Specialists	10.4	Personal Care Services	10	Human Services	12.0409	Aesthetician/Esthetician and Skin Care Sp	10	Human Services	1	2
39-5094	Skincare Specialists	10.4	Personal Care Services	10	Human Services	12.0401	Cosmetology/Cosmetologist, General.	10	Human Services	1	2
39-5094	Skincare Specialists	10.4	Personal Care Services	10	Human Services	12.0408	Facial Treatment Specialist/Facialist.	10	Human Services	1	2
39-5094	Skincare Specialists	10.4	Personal Care Services	10	Human Services	12.0414	Master Aesthetician/Esthetician.	9	Hospitality & Tourism	0	1
39-9021	Personal Care Aides	10.4	Personal Care Services	10	Human Services	51.2602	Home Health Aide/Home Attendant.	8	Health Science	0	1
39-9031	Fitness Trainers and Aerobics Instructors	10.4	Personal Care Services	10	Human Services	31.0501	Health and Physical Education/Fitness, G	5	Education & Training	0	1
39-9031	Fitness Trainers and Aerobics Instructors	10.4	Personal Care Services	10	Human Services	31.0514	Physical Education Teaching and Coachin	5	Education & Training	0	1
39-9031	Fitness Trainers and Aerobics Instructors	10.4	Personal Care Services	10	Human Services	31.0507	Physical Fitness Technician.	5	Education & Training	0	1
39-9031	Fitness Trainers and Aerobics Instructors	10.4	Personal Care Services	10	Human Services	31.0504	Sport and Fitness Administration/Manage	5	Education & Training	0	1
39-9031	Fitness Trainers and Aerobics Instructors	10.4	Personal Care Services	10	Human Services	51.3602	Yoga Teacher Training/Yoga Therapy.	8	Health Science	0	1
13-2071	Credit Counselors	10.5	Consumer Services	10	Human Services	52.0803	Banking and Financial Support Services.	6	Finance	0	1
13-2071	Credit Counselors	10.5	Consumer Services	10	Human Services	52.0809	Credit Management.	6	Finance	0	1
13-2071	Credit Counselors	10.5	Consumer Services	10	Human Services	52.0804	Financial Planning and Services.	6	Finance	0	1
15-1122	Information Security Analysts	11.1	Network Systems	11	Information Technology	11.003	Computer and Information Systems Secu	11	Information Technology	1	2
15-1122	Information Security Analysts	11.1	Network Systems	11	Information Technology	11.0701	Computer Science.	11	Information Technology	1	2
15-1122	Information Security Analysts	11.1	Network Systems	11	Information Technology	11.0901	Computer Systems Networking and Telec	11	Information Technology	1	2
15-1122	Information Security Analysts	11.1	Network Systems	11	Information Technology	43.0116	Cyber/Computer Forensics and Countert	12	Law, Public Safety, Corrections & Security	0	1
15-1122	Information Security Analysts	11.1	Network Systems	11	Information Technology	11.1005	Information Technology Project Managerr	11	Information Technology	1	2
15-1122	Information Security Analysts	11.1	Network Systems	11	Information Technology	11.0103	Information Technology.	11	Information Technology	1	2
15-1122	Information Security Analysts	11.1	Network Systems	11	Information Technology	11.1001	Network and System Administration/Adm	11	Information Technology	1	2
15-1122	Information Security Analysts	11.1	Network Systems	11	Information Technology	11.1002	System, Networking, and LAN/WAN Man	11	Information Technology	1	2
15-1141	Database Administrators	11.1	Network Systems	11	Information Technology	11.0101	Computer and Information Systems Secu	11	Information Technology	1	2
15-1141	Database Administrators	11.1	Network Systems	11	Information Technology	11.1003	Computer and Information Systems Secu	11	Information Technology	1	2
15-1141	Database Administrators	11.1	Network Systems	11	Information Technology	11.0802	Data Modeling/Warehousing and Databas	11	Information Technology	1	2
15-1142	Network and Computer Systems Administrators	11.1	Network Systems	11	Information Technology	11.0101	Computer and Information Systems Secu	11	Information Technology	1	2
15-1142	Network and Computer Systems Administrators	11.1	Network Systems	11	Information Technology	11.1003	Computer and Information Systems Secu	11	Information Technology	1	2
15-1142	Network and Computer Systems Administrators	11.1	Network Systems	11	Information Technology	11.1001	Network and System Administration/Adm	11	Information Technology	1	2
15-1143	Computer Network Architects	11.1	Network Systems	11	Information Technology	11.0101	Computer and Information Systems Secu	11	Information Technology	1	2
15-1143	Computer Network Architects	11.1	Network Systems	11	Information Technology	11.1003	Computer and Information Systems Secu	11	Information Technology	1	2
15-1143	Computer Network Architects	11.1	Network Systems	11	Information Technology	14.0901	Computer Engineering, General.	11	Information Technology	1	2
15-1143	Computer Network Architects	11.1	Network Systems	11	Information Technology	14.0999	Computer Engineering, Other.	11	Information Technology	1	2
15-1143	Computer Network Architects	11.1	Network Systems	11	Information Technology	11.0501	Computer Systems Analysis/Analyst.	11	Information Technology	1	2
15-1143	Computer Network Architects	11.1	Network Systems	11	Information Technology	11.0901	Computer Systems Networking and Telec	11	Information Technology	1	2
15-1143	Computer Network Architects	11.1	Network Systems	11	Information Technology	11.0103	Information Technology.	11	Information Technology	1	2
15-1143	Computer Network Architects	11.1	Network Systems	11	Information Technology	11.1001	Network and System Administration/Adm	11	Information Technology	1	2
15-1152	Computer Network Support Specialists	11.1	Network Systems	11	Information Technology	11.1003	Computer and Information Systems Secu	11	Information Technology	1	2
15-1152	Computer Network Support Specialists	11.1	Network Systems	11	Information Technology	11.0201	Computer Programming/Programmer, Ge	11	Information Technology	1	2
15-1152	Computer Network Support Specialists	11.1	Network Systems	11	Information Technology	11.0701	Computer Science.	11	Information Technology	1	2
15-1152	Computer Network Support Specialists	11.1	Network Systems	11	Information Technology	11.1006	Computer Support Specialist.	11	Information Technology	1	2
15-1152	Computer Network Support Specialists	11.1	Network Systems	11	Information Technology	11.0501	Computer Systems Analysis/Analyst.	11	Information Technology	1	2
15-1152	Computer Network Support Specialists	11.1	Network Systems	11	Information Technology	11.0901	Computer Systems Networking and Telec	11	Information Technology	1	2
15-1152	Computer Network Support Specialists	11.1	Network Systems	11	Information Technology	11.1001	Network and System Administration/Adm	11	Information Technology	1	2
15-1152	Computer Network Support Specialists	11.1	Network Systems	11	Information Technology	11.1002	System, Networking, and LAN/WAN Man	11	Information Technology	1	2
15-1151	Computer User Support Specialists	11.2	Information Support and Services	11	Information Technology	01.0106	Agricultural Business Technology.	1	Agriculture, Food & Natural Resources	1	2
15-1151	Computer User Support Specialists	11.2	Information Support and Services	11	Information Technology	11.1006	Computer Support Specialist.	11	Information Technology	1	2
15-1151	Computer User Support Specialists	11.2	Information Support and Services	11	Information Technology	51.0709	Medical Office Computer Specialist/Assis	8	Health Science	0	1
15-1199	Computer Occupations, All Other	11.2	Information Support and Services	11	Information Technology	30.1601	Accounting and Computer Science.	6	Finance	0	1
15-1199	Computer Occupations, All Other	11.2	Information Support and Services	11	Information Technology	26.1103	Bioinformatics.	8	Health Science	0	1
15-1199	Computer Occupations, All Other	11.2	Information Support and Services	11	Information Technology	26.1104	Computational Biology.	15	Science, Technology, Engineering & Mathemati	0	1
15-1199	Computer Occupations, All Other	11.2	Information Support and Services	11	Information Technology	30.3001	Computational Science.	15	Science, Technology, Engineering & Mathemati	0	1
15-1199	Computer Occupations, All Other	11.2	Information Support and Services	11	Information Technology	11.1003	Computer and Information Systems Secu	11	Information Technology	1	2
15-1199	Computer Occupations, All Other	11.2	Information Support and Services	11	Information Technology	11.0701	Computer Science.	11	Information Technology	1	2
15-1199	Computer Occupations, All Other	11.2	Information Support and Services	11	Information Technology	43.0116	Cyber/Computer Forensics and Countert	12	Law, Public Safety, Corrections & Security	0	1
15-1199	Computer Occupations, All Other	11.2	Information Support and Services	11	Information Technology	11.0301	Data Processing and Data Processing Tec	11	Information Technology	1	2
15-1199	Computer Occupations, All Other	11.2	Information Support and Services	11	Information Technology	30.3101	Human Computer Interaction.	15	Science, Technology, Engineering & Mathemati	0	1
15-1199	Computer Occupations, All Other	11.2	Information Support and Services	11	Information Technology	11.0401	Information Science/Studies.	11	Information Technology	1	2
15-1199	Computer Occupations, All Other	11.2	Information Support and Services	11	Information Technology	11.1005	Information Technology Project Managerr	11	Information Technology	1	2
15-1199	Computer Occupations, All Other	11.2	Information Support and Services	11	Information Technology	30.0801	Mathematics and Computer Science.	15	Science, Technology, Engineering & Mathemati	0	1
15-1199	Computer Occupations, All Other	11.2	Information Support and Services	11	Information Technology	51.2706	Medical Informatics.	8	Health Science	0	1
15-1134	Web Developers	11.3	Web and Digital Communications	11	Information Technology	11.0201	Computer Programming/Programmer, Ge	11	Information Technology	1	2
15-1134	Web Developers	11.3	Web and Digital Communications	11	Information Technology	11.0701	Computer Science.	11	Information Technology	1	2

Table 7 SOC_CIP XWalk
Career_Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Clstr No	Career Clusters Title	CIP 6 2010 Code	CIP Title 2010	REC	Mtc	CrossWalk Rel
								CLSTR NO		
33-3031	Fish and Game Wardens	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	03.0601	Wildlife, Fish and Wildlands Science and M	1	0	1
33-3051	Police and Sheriff's Patrol Officers	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	43.0107	Criminal Justice/Police Science	12	1	2
33-3051	Police and Sheriff's Patrol Officers	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	43.0111	Criminology and Criminal Science	12	1	2
33-3051	Police and Sheriff's Patrol Officers	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	43.0119	Critical Incident Response/Special Police	12	1	2
33-3051	Police and Sheriff's Patrol Officers	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	43.0114	Law Enforcement Investigation and Inter	12	1	2
33-3051	Police and Sheriff's Patrol Officers	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	43.0115	Law Enforcement Record-Keeping and Ev	12	1	2
33-3051	Police and Sheriff's Patrol Officers	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	43.0122	Maritime Law Enforcement	12	1	2
33-3051	Police and Sheriff's Patrol Officers	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	03.0208	Natural Resources Law Enforcement and	1	0	1
33-3051	Police and Sheriff's Patrol Officers	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	43.0129	Protective Services Operations	12	1	2
33-3052	Transit and Railroad Police	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	43.0109	Security and Loss Prevention Services	12	1	2
33-9021	Private Detectives and Investigators	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	43.0107	Criminal Justice/Police Science	12	1	2
33-9021	Private Detectives and Investigators	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	43.0123	Cultural/Archaeological Resources Protect	12	1	2
33-9021	Private Detectives and Investigators	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	43.0116	Cyber/Computer Forensics and Countert	12	1	2
33-9021	Private Detectives and Investigators	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	43.0117	Financial Forensics and Fraud Investigatio	12	1	2
33-9021	Private Detectives and Investigators	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	43.0115	Law Enforcement Record-Keeping and Ev	12	1	2
33-9021	Private Detectives and Investigators	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	43.0122	Maritime Law Enforcement	12	1	2
33-9021	Private Detectives and Investigators	12.4	Law Enforcement Services	12	Law, Public Safety, Corrections & Security	43.0120	Protective Services Operations	12	1	2
23-1011	Lawyers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0201	Advanced Legal Research/Studies, Gener	12	1	2
23-1011	Lawyers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0203	American/U.S. Law/Legal Studies/Jurispr	12	1	2
23-1011	Lawyers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0205	Banking, Corporate, Finance, and Securit	12	1	2
23-1011	Lawyers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0204	Canadian Law/Legal Studies/Jurispruden	12	1	2
23-1011	Lawyers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0206	Comparative Law	12	1	2
23-1011	Lawyers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0207	Energy, Environment, and Natural Resou	12	1	2
23-1011	Lawyers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0208	Health Law	12	1	2
23-1011	Lawyers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0212	Intellectual Property Law	12	1	2
23-1011	Lawyers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0210	International Business, Trade, and Tax L	12	1	2
23-1011	Lawyers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0209	International Law and Legal Studies	12	1	2
23-1011	Lawyers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0101	Law	12	1	2
23-1011	Lawyers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0299	Legal Research and Advanced Profession	12	1	2
23-1011	Lawyers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0202	Programs for Foreign Lawyers	12	1	2
23-1011	Lawyers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0211	Tax Law/Taxation	12	1	2
23-1022	Judicial Law Clerks	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0101	Law	12	1	2
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0101	Law	12	1	2
23-1022	Arbitrators, Mediators, and Conciliators	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	30.2801	Dispute Resolution	15	0	1
23-1022	Arbitrators, Mediators, and Conciliators	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0101	Law	12	1	2
23-1023	Judges, Magistrate Judges, and Magistrates	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0101	Law	12	1	2
23-2011	Paralegals and Legal Assistants	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0302	Legal Assistant/Paralegal	12	1	2
23-2091	Court Reporters	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0303	Court Reporting/Court Reporter	12	1	2
23-2093	Title Abstractors, Abstractors, and Searchers	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0305	Legal Assistant/Paralegal	12	1	2
23-2099	Legal Support Workers, All Other	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0302	Legal Assistant/Paralegal	12	1	2
43-6012	Legal Secretaries	12.5	Legal Services	12	Law, Public Safety, Corrections & Security	22.0301	Legal Administrative Assistant/Secretary	12	1	2
51-1011	First-Line Supervisors of Production and Operating Workers	13.1	Production	13	Manufacturing	52.0205	Operations Management and Supervision	4	0	1
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	13.1	Production	13	Manufacturing	47.0608	Aircraft Powerplant Technology/Technic	16	0	1
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	13.1	Production	13	Manufacturing	47.0607	Airframe Mechanics and Aircraft Mainte	16	0	1
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	13.1	Production	13	Manufacturing	47.0609	Avionics Maintenance Technology/Techn	16	0	1
51-2031	Engine and Other Machine Assemblers	13.1	Production	13	Manufacturing	47.0605	Engine Machinist	15	0	1
51-2093	Timing Device Assemblers and Adjusters	13.1	Production	13	Manufacturing	47.0408	Watchmaking and Jewelmaking	13	0	1
51-3021	Butchers and Meat Cutters	13.1	Production	13	Manufacturing	12.0506	Meat Cutting/Meat Cutter	9	0	1
51-3023	Slaughterers and Meat Packers	13.1	Production	13	Manufacturing	12.0506	Meat Cutting/Meat Cutter	9	0	1
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	13.1	Production	13	Manufacturing	48.0510	Computer Numerically Controlled (CNC) M	13	1	2
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	13.1	Production	13	Manufacturing	48.0503	Machine Shop Technology/Assistant	13	1	2
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	13.1	Production	13	Manufacturing	48.0510	Computer Numerically Controlled (CNC) M	13	1	2
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Pl	13.1	Production	13	Manufacturing	48.0501	Machine Tool Technology/Machinist	13	1	2
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	13.1	Production	13	Manufacturing	48.0501	Machine Tool Technology/Machinist	13	1	2
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	13.1	Production	13	Manufacturing	48.0501	Machine Tool Technology/Machinist	13	1	2
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	13.1	Production	13	Manufacturing	48.0506	Sheet Metal Technology/Sheetworking	2	0	1
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal a	13.1	Production	13	Manufacturing	48.0501	Machine Tool Technology/Machinist	13	1	2
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal a	13.1	Production	13	Manufacturing	48.0506	Sheet Metal Technology/Sheetworking	2	0	1
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Pl	13.1	Production	13	Manufacturing	48.0501	Machine Tool Technology/Machinist	13	1	2
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and	13.1	Production	13	Manufacturing	48.0503	Machine Shop Technology/Assistant	13	1	2
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and	13.1	Production	13	Manufacturing	48.0501	Machine Tool Technology/Machinist	13	1	2
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Pl	13.1	Production	13	Manufacturing	48.0501	Machine Tool Technology/Machinist	13	1	2
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	13.1	Production	13	Manufacturing	48.0501	Machine Tool Technology/Machinist	13	1	2
51-4041	Machinists	13.1	Production	13	Manufacturing	48.0503	Machine Shop Technology/Assistant	13	1	2
51-4041	Machinists	13.1	Production	13	Manufacturing	48.0501	Machine Tool Technology/Machinist	13	1	2
51-4061	Model Makers, Metal and Plastic	13.1	Production	13	Manufacturing	48.0506	Sheet Metal Technology/Sheetworking	2	0	1
51-4062	Patternmakers, Metal and Plastic	13.1	Production	13	Manufacturing	48.0506	Sheet Metal Technology/Sheetworking	2	0	1
51-4071	Foundry Mold and Coremakers	13.1	Production	13	Manufacturing	48.0509	Ironworking/Ironworker	2	0	1
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	13.1	Production	13	Manufacturing	48.0503	Machine Shop Technology/Assistant	13	1	2
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	13.1	Production	13	Manufacturing	48.0501	Machine Tool Technology/Machinist	13	1	2
51-4111	Tool and Die Makers	13.1	Production	13	Manufacturing	48.0507	Tool and Die Technology/Technician	13	1	2
51-4121	Welders, Cutters, Solderers, and Brazers	13.1	Production	13	Manufacturing	15.0614	Welding Engineering Technology/Techni	15	0	1
51-4121	Welders, Cutters, Solderers, and Brazers	13.1	Production	13	Manufacturing	48.0508	Welding Technology/Welder	13	1	2
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	13.1	Production	13	Manufacturing	48.0508	Welding Technology/Welder	13	1	2
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	13.1	Production	13	Manufacturing	48.0503	Machine Shop Technology/Assistant	13	1	2
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	13.1	Production	13	Manufacturing	48.0501	Machine Tool Technology/Machinist	13	1	2
51-4192	Layout Workers, Metal and Plastic	13.1	Production	13	Manufacturing	48.0503	Machine Shop Technology/Assistant	13	1	2
51-4192	Layout Workers, Metal and Plastic	13.1	Production	13	Manufacturing	48.0501	Machine Tool Technology/Machinist	13	1	2
51-4194	Tool Grinders, Filers, and Sharpeners	13.1	Production	13	Manufacturing	48.0503	Machine Shop Technology/Assistant	13	1	2
51-4199	Metal Workers and Plastic Workers, All Other	13.1	Production	13	Manufacturing	48.0503	Machine Shop Technology/Assistant	13	1	2
51-4199	Metal Workers and Plastic Workers, All Other	13.1	Production	13	Manufacturing	48.0501	Machine Tool Technology/Machinist	13	1	2
51-4199	Metal Workers and Plastic Workers, All Other	13.1	Production	13	Manufacturing	48.0599	Precision Metal Working, Other	13	1	2
51-6041	Shoe and Leather Workers and Repairers	13.1	Production	13	Manufacturing	48.0703	Cabinetmaking and Millwork	13	1	2
51-6042	Shoe Machine Operators and Tenders	13.1	Production	13	Manufacturing	48.0304	Shoe, Boot and Leather Repair	13	1	2
51-6092	Fabric and Apparel Patternmakers	13.1	Production	13	Manufacturing	19.0902	Apparel and Textile Manufacture	13	1	2
51-6093	Upholsterers	13.1	Production	13	Manufacturing	48.0303	Upholstery/Upholsterer	13	1	2
51-7011	Cabinetmakers and Bench Carpenters	13.1	Production	13	Manufacturing	48.0703	Cabinetmaking and Millwork	13	1	2
51-7021	Furniture Finishers	13.1	Production	13	Manufacturing	48.0702	Furniture Design and Manufacturing	13	1	2
51-7031	Model Makers, Wood	13.1	Production	13	Manufacturing	48.0703	Cabinetmaking and Millwork	13	1	2
51-7032	Patternmakers, Wood	13.1	Production	13	Manufacturing	48.0703	Cabinetmaking and Millwork	13	1	2
51-7032	Sawing Machine Setters, Operators, and Tenders, Wood	13.1	Production	13	Manufacturing	48.0703	Cabinetmaking and Millwork	13	1	2
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	13.1	Production	13	Manufacturing	48.0703	Cabinetmaking and Millwork	13	1	2
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	13.1	Production	13	Manufacturing	48.0701	Woodworking, General	13	1	2

Table 7 SOC_CIP Xwalk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clstr No	Career Clusters Title	CIP 6 2010 Code	CIP Title_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Clstr*	CrossWalk Rel Strength**
51-7099	Woodworkers, All Other	13.1	Production	13	Manufacturing	Manufacturing	48.0703	Cabinetmaking and Millwork.	13	Manufacturing	1	2
51-7099	Woodworkers, All Other	13.1	Production	13	Manufacturing	Manufacturing	48.0702	Furniture Design and Manufacturing.	13	Manufacturing	1	2
51-7099	Woodworkers, All Other	13.1	Production	13	Manufacturing	Manufacturing	48.0701	Woodworking, General.	13	Manufacturing	1	2
51-7099	Woodworkers, All Other	13.1	Production	13	Manufacturing	Manufacturing	48.0799	Woodworking, Other.	13	Manufacturing	1	2
51-8011	Nuclear Power Reactor Operators	13.1	Production	13	Manufacturing	Manufacturing	41.0205	Nuclear/Nuclear Power Technology/Tech	13	Manufacturing	1	2
51-8091	Chemical Plant and System Operators	13.1	Production	13	Manufacturing	Manufacturing	41.0303	Chemical Process Technology.	13	Manufacturing	1	2
51-8091	Chemical Plant and System Operators	13.1	Production	13	Manufacturing	Manufacturing	41.0301	Chemical Technology/Technician.	13	Manufacturing	1	2
51-9011	Chemical Equipment Operators and Tenders	13.1	Production	13	Manufacturing	Manufacturing	41.0303	Chemical Process Technology.	13	Manufacturing	1	2
51-9011	Chemical Equipment Operators and Tenders	13.1	Production	13	Manufacturing	Manufacturing	41.0301	Chemical Technology/Technician.	13	Manufacturing	1	2
51-9071	Jewelers and Precious Stone and Metal Workers	13.1	Production	13	Manufacturing	Manufacturing	50.0713	Metal and Jewelry Arts.	3	Arts, Audio/Video Technology & Communicati	0	1
51-9071	Jewelers and Precious Stone and Metal Workers	13.1	Production	13	Manufacturing	Manufacturing	47.0408	Watchmaking and Jewelmaking.	13	Manufacturing	1	2
51-9081	Dental Laboratory Technicians	13.1	Production	13	Manufacturing	Manufacturing	51.0603	Dental Laboratory Technology/Technician	13	Manufacturing	1	2
51-9083	Ophthalmic Laboratory Technicians	13.1	Production	13	Manufacturing	Manufacturing	51.1006	Ophthalmic Laboratory Technology/Tech	13	Manufacturing	1	2
51-9122	Painters, Transportation Equipment	13.1	Production	13	Manufacturing	Manufacturing	47.0603	Autobody/Collision and Repair Technol	16	Transportation, Distribution & Logistics	0	1
51-9141	Semiconductor Processors	13.1	Production	13	Manufacturing	Manufacturing	47.0105	Industrial Electronics Technology/Techni	13	Manufacturing	1	2
51-9141	Semiconductor Processors	13.1	Production	13	Manufacturing	Manufacturing	15.0616	Semiconductor Manufacturing Technology	15	Science, Technology, Engineering & Mathemat	0	1
51-9194	Etchers and Engravers	13.1	Production	13	Manufacturing	Manufacturing	10.0399	Graphic Communications, Other.	3	Arts, Audio/Video Technology & Communicati	0	1
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	52.1899	General Merchandising, Sales, and Relatec	14	Marketing	0	1
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	52.8101	Sales, Distribution, and Marketing Operat	14	Marketing	0	1
17-3012	Electrical and Electronics Drafters	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1302	CAD/CADD Drafting and/or Design Techr	13	Manufacturing	1	2
17-3012	Electrical and Electronics Drafters	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1301	Drafting and Design Technology/Technici	13	Manufacturing	1	2
17-3012	Electrical and Electronics Drafters	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1305	Electrical/Electronics Drafting and Electr	13	Architecture & Construction	0	1
17-3013	Mechanical Drafters	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1302	CAD/CADD Drafting and/or Design Techr	13	Manufacturing	1	2
17-3013	Mechanical Drafters	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1313	Drafting and Design Technology/Technici	13	Manufacturing	1	2
17-3013	Mechanical Drafters	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1306	Mechanical Drafting and Mechanical Draft	13	Architecture & Construction	0	1
17-3019	Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1302	CAD/CADD Drafting and/or Design Techr	13	Manufacturing	1	2
17-3019	Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1301	Drafting and Design Technology/Technici	13	Manufacturing	1	2
17-3019	Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1399	Drafting/Design Engineering Technologi	2	Architecture & Construction	0	1
17-3021	Aerospace Engineering and Operations Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0801	Aeronautical/Aerospace Engineering Techn	13	Manufacturing	1	2
17-3023	Electrical and Electronics Engineering Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1201	Computer Engineering Technology/Techni	13	Manufacturing	1	2
17-3023	Electrical and Electronics Engineering Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1202	Computer Technology/Computer System	13	Manufacturing	1	2
17-3023	Electrical and Electronics Engineering Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0313	Manufacturing Engineering Technology/Techn	13	Manufacturing	1	2
17-3023	Electrical and Electronics Engineering Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0303	Electrical, Electronic and Communications	13	Manufacturing	1	2
17-3023	Electrical and Electronics Engineering Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0306	Integrated Circuit Design.	15	Science, Technology, Engineering & Mathemat	0	1
17-3023	Electrical and Electronics Engineering Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0616	Semiconductor Manufacturing Technol	15	Science, Technology, Engineering & Mathemat	0	1
17-3023	Electrical and Electronics Engineering Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0305	Telecommunications Technology/Technic	13	Manufacturing	1	2
17-3024	Electro-Mechanical Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0406	Automation Engineer Technology/Techni	15	Science, Technology, Engineering & Mathemat	0	1
17-3024	Electro-Mechanical Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0499	Instrumentation and Instrumentation at	13	Manufacturing	1	2
17-3024	Electro-Mechanical Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0498	Manufacturing Production Technology/Electr	15	Manufacturing	1	2
17-3024	Electro-Mechanical Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0404	Instrumentation Technology/Technician.	13	Manufacturing	1	2
17-3024	Electro-Mechanical Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0405	Robotics Technology/Technician.	13	Manufacturing	1	2
17-3026	Industrial Engineering Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	41.0303	Chemical Process Technology.	13	Manufacturing	1	2
17-3026	Industrial Engineering Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1501	Engineering/Industrial Management.	15	Science, Technology, Engineering & Mathemat	0	1
17-3026	Industrial Engineering Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0699	Industrial Production Technologies/Techn	13	Manufacturing	1	2
17-3026	Industrial Engineering Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0612	Industrial Technology/Technician.	13	Manufacturing	1	2
17-3026	Industrial Engineering Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0613	Manufacturing Engineering Technology/T	13	Manufacturing	1	2
17-3026	Industrial Engineering Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1503	Packaging Science.	15	Science, Technology, Engineering & Mathemat	0	1
17-3027	Mechanical Engineering Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0899	Mechanical Engineering Related Technol	13	Manufacturing	1	2
17-3027	Mechanical Engineering Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0805	Mechanical Engineering/Mechanical Tech	13	Manufacturing	1	2
17-3029	Engineering Technicians, Except Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0101	Architectural Engineering Technology/Te	2	Architecture & Construction	0	1
17-3029	Engineering Technicians, Except Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0401	Biomedical Technology/Technician.	13	Manufacturing	1	2
17-3029	Engineering Technicians, Except Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0615	Chemical Engineering Technology/Techni	15	Science, Technology, Engineering & Mathemat	0	1
17-3029	Engineering Technicians, Except Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1203	Computer Hardware Technology/Technic	13	Manufacturing	1	2
17-3029	Engineering Technicians, Except Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0303	Manufacturing Engineering Technology/Techn	13	Architecture & Construction	0	1
17-3029	Engineering Technicians, Except Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0599	Environmental Control Technologies/Tecl	1	Agriculture, Food & Natural Resources	0	1
17-3029	Engineering Technicians, Except Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0501	Heating, Ventilation, Air Conditioning and	13	Manufacturing	1	2
17-3029	Engineering Technicians, Except Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1103	Hydraulics and Fluid Power Technology/T	13	Manufacturing	1	2
17-3029	Engineering Technicians, Except Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0304	Laser and Optical Technology/Technician	13	Manufacturing	1	2
17-3029	Engineering Technicians, Except Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0611	Metallurgical Technology/Technician.	13	Manufacturing	1	2
17-3029	Engineering Technicians, Except Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0901	Mining Technology/Technician.	1	Agriculture, Food & Natural Resources	0	1
17-3029	Engineering Technicians, Except Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1503	Packaging Science.	15	Science, Technology, Engineering & Mathemat	0	1
17-3029	Engineering Technicians, Except Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0607	Plastics and Polymer Engineering Technol	13	Manufacturing	1	2
17-3029	Engineering Technicians, Except Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0505	Solar Energy Technology/Technician.	13	Manufacturing	1	2
17-3029	Engineering Technicians, Except Drafters, All Other	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.0614	Welding Engineering Technology/Technic	15	Science, Technology, Engineering & Mathemat	0	1
19-4031	Chemical Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	41.0303	Chemical Process Technology.	13	Manufacturing	1	2
19-4031	Chemical Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	41.0301	Chemical Technology/Technician.	13	Manufacturing	1	2
19-4051	Nuclear Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	41.0204	Industrial Radiologic Technology/Technic	13	Manufacturing	1	2
19-4051	Nuclear Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	41.0299	Nuclear and Industrial Radiologic Technol	13	Manufacturing	1	2
19-4051	Nuclear Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	15.1401	Nuclear Engineering Technology/Technic	13	Manufacturing	1	2
19-4051	Nuclear Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	41.0205	Nuclear/Nuclear Power Technology/Tech	13	Manufacturing	1	2
19-4051	Nuclear Technicians	13.2	Manufacturing Production Process Development	13	Manufacturing	Manufacturing	51.0916	Radiation Protection/Health Physics Tech	8	Health Science	0	1
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	46.0301	Electrical and Power Transmission Installa	2	Architecture & Construction	0	1
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0617	High Performance and Custom Engine Tex	16	Transportation, Distribution & Logistics	0	1
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	46.0303	Lineworker.	2	Architecture & Construction	0	1
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	52.0205	Operations Management and Supervision.	4	Business Management & Administration	0	1
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0618	Recreation Vehicle (RV) Service Technic	16	Transportation, Distribution & Logistics	0	1
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0600	Vehicle Maintenance and Repair Technol	16	Transportation, Distribution & Logistics	0	1
49-2011	Computer, Automated Teller, and Office Machine Repairers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0102	Business Machine Repair.	13	Manufacturing	1	2
49-2011	Computer, Automated Teller, and Office Machine Repairers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0104	Computer Installation and Repair Technol	13	Manufacturing	1	2
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0103	Communications Systems Installation and	3	Arts, Audio/Video Technology & Communicati	0	1
49-2092	Electric Motor, Power Tool, and Related Repairers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0101	Electrical/Electronics Equipment Installati	13	Manufacturing	1	2
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0104	Computer Installation and Repair Technol	13	Manufacturing	1	2
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0103	Manufacturing Engineering Technology/Techn	13	Manufacturing	1	2
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0103	Communications Systems Installation and	3	Arts, Audio/Video Technology & Communicati	0	1
49-2098	Security and Fire Alarm Systems Installers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	46.0302	Electrician.	2	Architecture & Construction	0	1
49-2098	Security and Fire Alarm Systems Installers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0110	Security System Installation, Repair, and	12	Architecture & Construction	0	1
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0606	Small Engine Mechanics and Repair Techn	16	Transportation, Distribution & Logistics	0	1
49-9031	Home Appliance Repairers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0106	Appliance Installation and Repair Technol	13	Manufacturing	1	2
49-9041	Industrial Machinery Mechanics	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0303	Industrial Mechanics and Maintenance Tec	13	Manufacturing	1	2
49-9043	Maintenance Workers, Machinery	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0303	Industrial Mechanics and Maintenance Tec	13	Manufacturing	1	2
49-9062	Medical Equipment Repairers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	15.0401	Biomedical Technology/Technician.	13	Manufacturing	1	2
49-9063	Musical Instrument Repairers and Tuners	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0404	Musical Instrument Fabrication and Repair	13	Manufacturing	1	2
49-9064	Watch Repairers	13.3	Maintenance, Installation & Repair	13	Manufacturing	Manufacturing	47.0408	Watchmaking and Jewelmaking.	13	Manufacturing	1	2

Table 7 SOC_CIP XWalk
Career Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clstrs Title	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Clstr*	CrossWalk Rel Strength**
49-9069	Precision Instrument and Equipment Repairers, All Other	13.3	Maintenance, Installation & Repair	13	Manufacturing	15.0404	Instrumentation Technology/Technician.	13	Manufacturing	1	2
49-9069	Precision Instrument and Equipment Repairers, All Other	13.3	Maintenance, Installation & Repair	13	Manufacturing	47.0499	Precision Systems Maintenance and Repa	13	Manufacturing	1	2
49-9071	Maintenance and Repair Workers, General	13.3	Maintenance, Installation & Repair	13	Manufacturing	46.0401	Building/Property Maintenance.	13	Architecture & Construction	0	2
49-9081	Wind Turbine Service Technicians	13.3	Maintenance, Installation & Repair	13	Manufacturing	47.0303	Industrial Mechanics and Maintenance Tec	13	Manufacturing	1	2
49-9094	Locksmiths and Safe Repairers	13.3	Maintenance, Installation & Repair	13	Manufacturing	47.0403	Locksmithing and Safe Repair.	13	Manufacturing	1	2
49-9099	Installation, Maintenance, and Repair Workers, All Other	13.3	Maintenance, Installation & Repair	13	Manufacturing	47.0101	Electrical/Electronics Equipment Installati	13	Manufacturing	1	2
49-9099	Installation, Maintenance, and Repair Workers, All Other	13.3	Maintenance, Installation & Repair	13	Manufacturing	47.0402	Gunsmiting/Gunsmith.	13	Manufacturing	1	2
49-9099	Installation, Maintenance, and Repair Workers, All Other	13.3	Maintenance, Installation & Repair	13	Manufacturing	47.0409	Parts and Warehousing Operations and M	13	Manufacturing	0	2
51-9082	Medical Appliance Technicians	13.3	Maintenance, Installation & Repair	13	Manufacturing	51.2312	Assistive/Augmentative Technology and 8	0	Health Science	0	1
51-9082	Medical Appliance Technicians	13.3	Maintenance, Installation & Repair	13	Manufacturing	51.2307	Orthotist/Prosthetist.	8	Health Science	0	1
43-5061	Production, Planning, and Expediting Clerks	13.4	Quality Assurance	13	Manufacturing	52.0409	Parts, Warehousing, and Inventory Manag	4	Business Management & Administration	0	1
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	13.4	Quality Assurance	13	Manufacturing	15.0702	Quality Control Technology/Technician.	13	Manufacturing	1	2
11-2011	Advertising and Promotions Managers	14.1	Marketing Management	14	Marketing	09.0903	Advertising.	14	Marketing	1	2
11-2011	Advertising and Promotions Managers	14.1	Marketing Management	14	Marketing	52.1401	Marketing/Marketing Management, Gener	14	Marketing	1	2
11-2011	Advertising and Promotions Managers	14.1	Marketing Management	14	Marketing	09.0900	Public Relations, Advertising, and Applied	14	Marketing	1	2
11-2011	Advertising and Promotions Managers	14.1	Marketing Management	14	Marketing	09.0902	Public Relations/Image Management.	14	Marketing	1	2
11-2021	Marketing Managers	14.1	Marketing Management	14	Marketing	19.0905	Apparel and Textile Marketing Manageme	14	Marketing	1	2
11-2021	Marketing Managers	14.1	Marketing Management	14	Marketing	19.0203	Consumer Merchandising/Retailing Manag	14	Marketing	1	2
11-2021	Marketing Managers	14.1	Marketing Management	14	Marketing	52.1403	International Marketing.	14	Marketing	1	2
11-2021	Marketing Managers	14.1	Marketing Management	14	Marketing	52.1402	Marketing Research.	14	Marketing	1	2
11-2021	Marketing Managers	14.1	Marketing Management	14	Marketing	52.1499	Marketing, Other.	14	Marketing	1	2
11-2021	Marketing Managers	14.1	Marketing Management	14	Marketing	52.1401	Marketing/Marketing Management, Gener	14	Marketing	1	2
11-2021	Marketing Managers	14.1	Marketing Management	14	Marketing	51.2011	Pharmaceutical Marketing and Manageme	8	Health Science	0	1
11-2022	Sales Managers	14.1	Marketing Management	14	Marketing	52.0201	Business Administration and Management	4	Business Management & Administration	0	1
11-2022	Sales Managers	14.1	Marketing Management	14	Marketing	52.0101	Business/Commerce, General.	4	Business Management & Administration	0	1
11-2022	Sales Managers	14.1	Marketing Management	14	Marketing	19.0203	Consumer Merchandising/Retailing Manag	14	Marketing	1	2
11-2022	Sales Managers	14.1	Marketing Management	14	Marketing	52.1401	Marketing/Marketing Management, Gener	14	Marketing	1	2
11-2022	Sales Managers	14.1	Marketing Management	14	Marketing	51.2011	Pharmaceutical Marketing and Manageme	8	Health Science	0	1
11-2031	Public Relations and Fundraising Managers	14.1	Marketing Management	14	Marketing	09.0900	Public Relations, Advertising, and Applied	14	Marketing	1	2
11-2031	Public Relations and Fundraising Managers	14.1	Marketing Management	14	Marketing	09.0902	Public Relations/Image Management.	14	Marketing	1	2
11-9141	Property, Real Estate, and Community Association Managers	14.1	Marketing Management	14	Marketing	04.1001	Real Estate Development.	2	Architecture & Construction	0	1
41-1011	Property, Real Estate, and Community Association Managers	14.1	Marketing Management	14	Marketing	51.2307	Orthotist/Prosthetist.	8	Architecture & Construction	0	1
41-1011	First-Line Supervisors of Retail Sales Workers	14.2	Professional Sales	14	Marketing	19.0203	Consumer Merchandising/Retailing Manag	14	Marketing	1	2
41-1011	First-Line Supervisors of Retail Sales Workers	14.2	Professional Sales	14	Marketing	52.0208	E-Commerce/Electronic Commerce.	4	Business Management & Administration	0	1
41-1011	First-Line Supervisors of Retail Sales Workers	14.2	Professional Sales	14	Marketing	01.0608	Floriculture/Floristry Operations and Man	1	Agriculture, Food & Natural Resources	0	1
41-1011	First-Line Supervisors of Retail Sales Workers	14.2	Professional Sales	14	Marketing	52.1899	General Merchandising, Sales, and Relate	14	Marketing	1	2
41-1011	First-Line Supervisors of Retail Sales Workers	14.2	Professional Sales	14	Marketing	52.0212	Retail Management.	4	Business Management & Administration	0	1
41-1011	First-Line Supervisors of Retail Sales Workers	14.2	Professional Sales	14	Marketing	52.1803	Retailing and Retail Operations.	14	Marketing	1	2
41-1011	First-Line Supervisors of Retail Sales Workers	14.2	Professional Sales	14	Marketing	52.1804	Selling Skills and Sales Operations.	14	Marketing	1	2
41-1011	First-Line Supervisors of Retail Sales Workers	14.2	Professional Sales	14	Marketing	52.1909	Special Products Marketing Operations.	14	Marketing	1	2
41-1011	First-Line Supervisors of Retail Sales Workers	14.2	Professional Sales	14	Marketing	52.1909	Special Products Marketing Operations.	14	Marketing	1	2
41-1012	First-Line Supervisors of Non-Retail Sales Workers	14.2	Professional Sales	14	Marketing	52.1899	General Merchandising, Sales, and Relate	14	Marketing	1	2
41-1012	First-Line Supervisors of Non-Retail Sales Workers	14.2	Professional Sales	14	Marketing	52.1804	Selling Skills and Sales Operations.	14	Marketing	1	2
41-1012	First-Line Supervisors of Non-Retail Sales Workers	14.2	Professional Sales	14	Marketing	52.1909	Special Products Marketing Operations.	14	Marketing	1	2
41-1012	First-Line Supervisors of Non-Retail Sales Workers	14.2	Professional Sales	14	Marketing	52.1804	Selling Skills and Sales Operations.	14	Marketing	1	2
41-2022	Parts Salespersons	14.2	Professional Sales	14	Marketing	52.1907	Vehicle and Vehicle Parts and Accessorie	14	Marketing	1	2
41-2022	Parts Salespersons	14.2	Professional Sales	14	Marketing	52.1804	Selling Skills and Sales Operations.	14	Marketing	1	2
41-3011	Advertising Sales Agents	14.2	Professional Sales	14	Marketing	52.1803	Retailing and Retail Operations.	14	Marketing	1	2
41-3099	Sales Representatives, Services, All Other	14.2	Professional Sales	14	Marketing	52.1804	Selling Skills and Sales Operations.	14	Marketing	1	2
41-3099	Sales Representatives, Services, All Other	14.2	Professional Sales	14	Marketing	52.1804	Selling Skills and Sales Operations.	14	Marketing	1	2
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific P	14.2	Professional Sales	14	Marketing	52.1804	Selling Skills and Sales Operations.	14	Marketing	1	2
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Sci	14.2	Professional Sales	14	Marketing	52.1904	Apparel and Accessories Marketing Operz	14	Marketing	1	2
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Sci	14.2	Professional Sales	14	Marketing	52.1902	Fashion Merchandising.	14	Marketing	1	2
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Sci	14.2	Professional Sales	14	Marketing	52.1899	General Merchandising, Sales, and Relate	14	Marketing	1	2
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Sci	14.2	Professional Sales	14	Marketing	52.1801	Sales, Distribution, and Marketing Operat	14	Marketing	1	2
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Sci	14.2	Professional Sales	14	Marketing	52.1909	Special Products Marketing Operations.	14	Marketing	1	2
41-9011	Demonstrators and Product Promoters	14.2	Professional Sales	14	Marketing	52.1803	Retailing and Retail Operations.	14	Marketing	1	2
41-9021	Real Estate Brokers	14.2	Professional Sales	14	Marketing	04.1001	Real Estate Development.	2	Architecture & Construction	0	1
41-9021	Real Estate Brokers	14.2	Professional Sales	14	Marketing	52.1501	Real Estate.	14	Marketing	1	2
41-9022	Real Estate Sales Agents	14.2	Professional Sales	14	Marketing	04.1001	Real Estate Development.	2	Architecture & Construction	0	1
41-9022	Real Estate Sales Agents	14.2	Professional Sales	14	Marketing	52.1501	Real Estate.	14	Marketing	1	2
41-9099	Sales and Related Workers, All Other	14.2	Professional Sales	14	Marketing	52.1901	Auctioneering.	14	Marketing	1	2
41-9099	Sales and Related Workers, All Other	14.2	Professional Sales	14	Marketing	52.1803	Retailing and Retail Operations.	14	Marketing	1	2
41-9099	Sales and Related Workers, All Other	14.2	Professional Sales	14	Marketing	52.1804	Selling Skills and Sales Operations.	14	Marketing	1	2
41-9099	Sales and Related Workers, All Other	14.2	Professional Sales	14	Marketing	52.1909	Special Products Marketing Operations.	14	Marketing	1	2
13-1022	Wholesale and Retail Buyers, Except Farm Products	14.3	Merchandising	14	Marketing	52.1904	Apparel and Accessories Marketing Operz	14	Marketing	1	2
13-1022	Wholesale and Retail Buyers, Except Farm Products	14.3	Merchandising	14	Marketing	19.0905	Apparel and Textile Marketing Manageme	14	Marketing	1	2
13-1022	Wholesale and Retail Buyers, Except Farm Products	14.3	Merchandising	14	Marketing	52.1902	Fashion Merchandising.	14	Marketing	1	2
13-1022	Wholesale and Retail Buyers, Except Farm Products	14.3	Merchandising	14	Marketing	52.1899	General Merchandising, Sales, and Relate	14	Marketing	1	2
13-1022	Wholesale and Retail Buyers, Except Farm Products	14.3	Merchandising	14	Marketing	52.1802	Merchandising and Buying Operations.	14	Marketing	1	2
13-1022	Wholesale and Retail Buyers, Except Farm Products	14.3	Merchandising	14	Marketing	52.1803	Sales, Distribution, and Marketing Operat	14	Marketing	1	2
13-1022	Wholesale and Retail Buyers, Except Farm Products	14.3	Merchandising	14	Marketing	12.0510	Wine Steward/Sommelier.	9	Hospitality & Tourism	0	1
41-9012	Models	14.3	Merchandising	14	Marketing	52.1903	Fashion Modeling.	14	Marketing	1	2
27-3031	Public Relations Specialists	14.4	Marketing Communications	14	Marketing	09.0100	Communication, General.	3	Arts, Audio/Video Technology & Communicati	0	1
27-3031	Public Relations Specialists	14.4	Marketing Communications	14	Marketing	19.0202	Family and Consumer Sciences/Human Sc	3	Arts, Audio/Video Technology & Communicati	0	1
27-3031	Public Relations Specialists	14.4	Marketing Communications	14	Marketing	09.0905	Health Communication.	14	Marketing	1	2
27-3031	Public Relations Specialists	14.4	Marketing Communications	14	Marketing	09.0907	International and Intercultural Communic	3	Arts, Audio/Video Technology & Communicati	0	1
27-3031	Public Relations Specialists	14.4	Marketing Communications	14	Marketing	09.0904	Political Communication.	14	Marketing	1	2
27-3031	Public Relations Specialists	14.4	Marketing Communications	14	Marketing	09.0900	Public Relations, Advertising, and Applied	14	Marketing	1	2
27-3031	Public Relations Specialists	14.4	Marketing Communications	14	Marketing	09.0902	Public Relations/Image Management.	14	Marketing	1	2
27-3031	Public Relations Specialists	14.4	Marketing Communications	14	Marketing	09.0101	Speech Communication and Rhetoric.	3	Arts, Audio/Video Technology & Communicati	0	1
27-3031	Public Relations Specialists	14.4	Marketing Communications	14	Marketing	09.0906	Sports Communication.	3	Arts, Audio/Video Technology & Communicati	0	1
13-1161	Market Research Analysts and Marketing Specialists	14.5	Marketing Research	14	Marketing	45.0602	Applied Economics.	15	Science, Technology, Engineering & Mathemati	0	1
13-1161	Market Research Analysts and Marketing Specialists	14.5	Marketing Research	14	Marketing	19.0203	Consumer Merchandising/Retailing Manag	14	Marketing	1	2
13-1161	Market Research Analysts and Marketing Specialists	14.5	Marketing Research	14	Marketing	52.1403	Marketing Research.	14	Marketing	1	2
13-1161	Market Research Analysts and Marketing Specialists	14.5	Marketing Research	14	Marketing	52.1402	Marketing Research.	14	Marketing	1	2
13-1161	Market Research Analysts and Marketing Specialists	14.5	Marketing Research	14	Marketing	52.1401	Marketing/Marketing Management, Gener	14	Marketing	1	2
11-9041	Architectural and Engineering Managers	15.1	Engineering and Technology	15	Science, Technology, Engineering & Mathematic	14.0201	Aerospace, Aeronautical and Astronautic	15	Science, Technology, Engineering & Mathematic	1	2
11-9041	Architectural and Engineering Managers	15.1	Engineering and Technology	15	Science, Technology, Engineering & Mathematic	14.0301	Agricultural Engineering.	15	Science, Technology, Engineering & Mathematic	1	2
11-9041	Architectural and Engineering Managers	15.1	Engineering and Technology	15	Science, Technology, Engineering & Mathematic	04.0902	Architectural and Building Sciences/Tech	2	Architecture & Construction	0	1
11-9041	Architectural and Engineering Managers	15.1	Engineering and Technology	15	Science, Technology, Engineering & Mathematic	14.0401	Architectural Engineering.	15	Science, Technology, Engineering & Mathematic	1	2
11-9041	Architectural and Engineering Managers	15.1	Engineering and Technology	15	Science, Technology, Engineering & Mathematic	04.0301	Architecture.	15	Architecture & Construction	0	1
11-9041	Architectural and Engineering Managers	15.1	Engineering and Technology	15	Science, Technology, Engineering & Mathematic	14.4301	Biochemical Engineering.	15	Science, Technology, Engineering & Mathematic	1	2
11-9041	Architectural and Engineering Managers	15.1	Engineering and Technology	15	Science, Technology, Engineering & Mathematic	14.0501	Bioengineering and Biomedical Engineerin	15	Science, Technology, Engineering & Mathematic	1	2
11-9041	Architectural and Engineering Managers	15.1	Engineering and Technology	15	Science, Technology, Engineering & Mathematic	14.4501	Biological/Biosystems Engineering.	15	Science, Technology, Engineering & Mathematic	1	2

Table 7 SOC_CIP XWalk
Career_Cluster_Pathway

SOC CODE	SOC TITLE	Pthwy No	Pathway Title	Career Cstr No	Career Clstr No	CIP 6 2010 Code	CIPTitle_2010	REC CLSTR NO	Recommended Cluster_2010	Mtch Clstr*	CrossWalk Rel Strength**
19-3099	Social Scientists and Related Workers, All Other	15.2	Science and Mathematics	15	15	30.1101	Gerontology.	15	Science, Technology, Engineering & Mathematics	1	2
19-3099	Social Scientists and Related Workers, All Other	15.2	Science and Mathematics	15	15	44.0503	Health Policy Analysis.	7	Government & Public Administration	0	1
19-3099	Social Scientists and Related Workers, All Other	15.2	Science and Mathematics	15	15	13.0607	Learning Sciences.	5	Education & Training	0	1
19-3099	Social Scientists and Related Workers, All Other	15.2	Science and Mathematics	15	15	16.0199	Linguistic, Comparative, and Related Lang	5	Education & Training	0	1
19-3099	Social Scientists and Related Workers, All Other	15.2	Science and Mathematics	15	15	45.0102	Research Methodology and Quantitative	15	Science, Technology, Engineering & Mathematics	1	2
19-3099	Social Scientists and Related Workers, All Other	15.2	Science and Mathematics	15	15	45.0101	Social Sciences, General.	15	Science, Technology, Engineering & Mathematics	1	2
19-3099	Social Scientists and Related Workers, All Other	15.2	Science and Mathematics	15	15	45.9999	Social Sciences, Other.	15	Science, Technology, Engineering & Mathematics	1	2
19-4061	Social Science Research Assistants	15.2	Science and Mathematics	15	15	45.0101	Social Sciences, General.	15	Science, Technology, Engineering & Mathematics	1	2
19-4099	Life, Physical, and Social Science Technicians, All Other	15.2	Science and Mathematics	15	15	41.0303	Chemical Process Technology.	13	Manufacturing	0	1
19-4099	Life, Physical, and Social Science Technicians, All Other	15.2	Science and Mathematics	15	15	41.0399	Physical Science Technologies/Technician	13	Manufacturing	0	1
19-4099	Life, Physical, and Social Science Technicians, All Other	15.2	Science and Mathematics	15	15	41.0000	Science Technologies/Technicians, Gen	15	Science, Technology, Engineering & Mathematics	1	2
19-4099	Life, Physical, and Social Science Technicians, All Other	15.2	Science and Mathematics	15	15	41.9999	Science Technologies/Technicians, Other	13	Manufacturing	0	1
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehi	16.1	Transportation Operations	16	16	49.0208	Railroad and Railway Transportation.	16	Transportation, Distribution & Logistics	1	2
53-2011	Airline Pilots, Copilots, and Flight Engineers	16.1	Transportation Operations	16	16	49.0102	Airline/Commercial/Professional Pilot and	16	Transportation, Distribution & Logistics	1	2
53-2011	Airline Pilots, Copilots, and Flight Engineers	16.1	Transportation Operations	16	16	49.0108	Flight Instructor.	16	Transportation, Distribution & Logistics	1	2
53-2012	Commercial Pilots	16.1	Transportation Operations	16	16	49.0102	Airline/Commercial/Professional Pilot and	16	Transportation, Distribution & Logistics	1	2
53-2031	Flight Attendants	16.1	Transportation Operations	16	16	49.0106	Airline Flight Attendant.	16	Transportation, Distribution & Logistics	1	2
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	16.1	Transportation Operations	16	16	51.0810	Emergency Care Attendant (EMT Ambula	8	Health Science	0	1
53-3021	Bus Drivers, Transit and Intercity	16.1	Transportation Operations	16	16	49.0205	Truck and Bus Driver/Commercial Vehicle	16	Transportation, Distribution & Logistics	1	2
53-3022	Bus Drivers, School or Special Client	16.1	Transportation Operations	16	16	49.0205	Truck and Bus Driver/Commercial Vehicle	16	Transportation, Distribution & Logistics	1	2
53-3032	Heavy and Tractor-Trailer Truck Drivers	16.1	Transportation Operations	16	16	49.0205	Truck and Bus Driver/Commercial Vehicle	16	Transportation, Distribution & Logistics	1	2
53-3033	Light Truck or Delivery Services Drivers	16.1	Transportation Operations	16	16	49.0205	Truck and Bus Driver/Commercial Vehicle	16	Transportation, Distribution & Logistics	1	2
53-4011	Locomotive Engineers	16.1	Transportation Operations	16	16	49.0208	Railroad and Railway Transportation.	16	Transportation, Distribution & Logistics	1	2
53-4012	Rail Yard Engineers, Dinkey Operators, and Hostlers	16.1	Transportation Operations	16	16	49.0208	Railroad and Railway Transportation.	16	Transportation, Distribution & Logistics	1	2
53-4021	Railroad Brake, Signal, and Switch Operators	16.1	Transportation Operations	16	16	49.0208	Railroad and Railway Transportation.	16	Transportation, Distribution & Logistics	1	2
53-4031	Railroad Conductors and Yardmasters	16.1	Transportation Operations	16	16	49.0208	Railroad and Railway Transportation.	16	Transportation, Distribution & Logistics	1	2
53-4041	Subway and Streetcar Operators	16.1	Transportation Operations	16	16	49.0208	Railroad and Railway Transportation.	16	Transportation, Distribution & Logistics	1	2
53-4099	Rail Transportation Workers, All Other	16.1	Transportation Operations	16	16	49.0208	Railroad and Railway Transportation.	16	Transportation, Distribution & Logistics	1	2
53-5021	Captains, Mates, and Pilots of Water Vessels	16.1	Transportation Operations	16	16	49.0303	Commercial Fishing.	1	Agriculture, Food & Natural Resources	0	1
53-5021	Captains, Mates, and Pilots of Water Vessels	16.1	Transportation Operations	16	16	49.0309	Marine Science/Merchant Marine Officer.	7	Government & Public Administration	0	0
53-5031	Ship Engineers	16.1	Transportation Operations	16	16	49.0309	Marine Science/Merchant Marine Officer.	16	Transportation, Distribution & Logistics	1	2
11-3071	Transportation, Storage, and Distribution Managers	16.2	Logistics Planning and Management Services	16	16	49.0101	Aeronautics/Aviation/Aerospace Science	16	Transportation, Distribution & Logistics	1	2
11-3071	Transportation, Storage, and Distribution Managers	16.2	Logistics Planning and Management Services	16	16	49.0104	Aviation/Airway Management and Operat	16	Transportation, Distribution & Logistics	1	2
11-3071	Transportation, Storage, and Distribution Managers	16.2	Logistics Planning and Management Services	16	16	52.0201	Business Administration and Management	4	Business Management & Administration	0	0
11-3071	Transportation, Storage, and Distribution Managers	16.2	Logistics Planning and Management Services	16	16	52.0101	Business/Commerce, General.	4	Business Management & Administration	0	0
11-3071	Transportation, Storage, and Distribution Managers	16.2	Logistics Planning and Management Services	16	16	52.0203	Logistics, Materials, and Supply Chain Ma	16	Transportation, Distribution & Logistics	1	2
11-3071	Transportation, Storage, and Distribution Managers	16.2	Logistics Planning and Management Services	16	16	44.0401	Public Administration.	7	Government & Public Administration	0	0
11-3071	Transportation, Storage, and Distribution Managers	16.2	Logistics Planning and Management Services	16	16	52.0209	Transportation/Mobility Management.	16	Transportation, Distribution & Logistics	1	2
13-1081	Logisticians	16.2	Logistics Planning and Management Services	16	16	52.0205	Operations Management and Supervision	4	Business Management & Administration	0	1
43-5032	Dispatchers, Except Police, Fire, and Ambulance	16.2	Logistics Planning and Management Services	16	16	52.0410	Traffic, Customs, and Transportation Cler	16	Transportation, Distribution & Logistics	1	2
47-4061	Rail-Track Laying and Maintenance Equipment Operators	16.4	Facility and Mobile Equipment Maintenance	16	16	49.0202	Construction/Heavy Equipment/Earthmo	2	Architecture & Construction	0	1
49-2091	Avionics Technicians	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0609	Avionics Maintenance Technology/Techni	16	Transportation, Distribution & Logistics	1	2
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0604	Automobile/Automotive Mechanics Tech	16	Transportation, Distribution & Logistics	1	2
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0604	Automobile/Automotive Mechanics Tech	16	Transportation, Distribution & Logistics	1	2
49-3011	Aircraft Mechanics and Service Technicians	16.4	Facility and Mobile Equipment Maintenance	16	16	01.0205	Agricultural Mechanics and Equipment/M	1	Agriculture, Food & Natural Resources	0	1
49-3011	Aircraft Mechanics and Service Technicians	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0608	Aircraft Powerplant Technology/Techni	16	Transportation, Distribution & Logistics	1	2
49-3011	Aircraft Mechanics and Service Technicians	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0607	Airframe Mechanics and Aircraft Mainte	16	Transportation, Distribution & Logistics	1	2
49-3021	Automotive Body and Related Repairers	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0603	Autobody/Collision and Repair Technol	16	Transportation, Distribution & Logistics	1	2
49-3022	Automotive Glass Installers and Repairers	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0603	Autobody/Collision and Repair Technol	16	Transportation, Distribution & Logistics	1	2
49-3023	Automotive Service Technicians and Mechanics	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0614	Alternative Fuel Vehicle Technology/Tec	16	Transportation, Distribution & Logistics	1	2
49-3023	Automotive Service Technicians and Mechanics	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0604	Automobile/Automotive Mechanics Tech	16	Transportation, Distribution & Logistics	1	2
49-3023	Automotive Service Technicians and Mechanics	16.4	Facility and Mobile Equipment Maintenance	16	16	15.0803	Automotive Engineering Technology/Tec	16	Transportation, Distribution & Logistics	0	2
49-3023	Automotive Service Technicians and Mechanics	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0617	High Performance and Custom Engine Te	16	Transportation, Distribution & Logistics	1	2
49-3023	Automotive Service Technicians and Mechanics	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0613	Medium/Heavy Vehicle and Truck Techno	16	Transportation, Distribution & Logistics	1	2
49-3023	Automotive Service Technicians and Mechanics	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0612	Vehicle Emissions Inspection and Mainten	16	Transportation, Distribution & Logistics	1	2
49-3023	Automotive Service Technicians and Mechanics	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0600	Vehicle Maintenance and Repair Techno	16	Transportation, Distribution & Logistics	1	2
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0605	Diesel Mechanics Technology/Technician	16	Transportation, Distribution & Logistics	1	2
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0613	Medium/Heavy Vehicle and Truck Techno	16	Transportation, Distribution & Logistics	1	2
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0302	Heavy Equipment Maintenance Technol	16	Transportation, Distribution & Logistics	1	2
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0302	Heavy Equipment Maintenance Technol	16	Transportation, Distribution & Logistics	1	2
49-3043	Rail Car Repairers	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0302	Heavy Equipment Maintenance Technol	16	Transportation, Distribution & Logistics	1	2
49-3051	Motorboat Mechanics and Service Technicians	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0616	Marine Maintenance/Fitter and Ship Repa	16	Transportation, Distribution & Logistics	1	2
49-3051	Motorboat Mechanics and Service Technicians	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0606	Small Engine Mechanics and Repair Tech	16	Transportation, Distribution & Logistics	1	2
49-3052	Motorcycle Mechanics	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0611	Motorcycle Maintenance and Repair Tech	16	Transportation, Distribution & Logistics	1	2
49-3091	Bicycle Repairers	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0610	Bicycle Mechanics and Repair Technology	16	Transportation, Distribution & Logistics	1	2
49-3092	Recreational Vehicle Service Technicians	16.4	Facility and Mobile Equipment Maintenance	16	16	47.0618	Recreation Vehicle (RV) Service Technic	16	Transportation, Distribution & Logistics	1	2
49-9097	Signal and Track Switch Repairers	16.4	Facility and Mobile Equipment Maintenance	16	16	46.9302	Electrician.	2	Architecture & Construction	0	2
53-2021	Air Traffic Controllers	16.5	Transportation Systems/Infrastructure Planning, M	16	16	49.0105	Air Traffic Controller.	16	Transportation, Distribution & Logistics	1	2
53-2022	Airfield Operations Specialists	16.5	Transportation Systems/Infrastructure Planning, M	16	16	49.0105	Air Traffic Controller.	16	Transportation, Distribution & Logistics	1	2
43-5011	Cargo and Freight Agents	16.7	Sales and Service	16	16	52.0408	General Office Occupations and Clerical	5	Business Management & Administration	0	1
43-5011	Cargo and Freight Agents	16.7	Sales and Service	16	16	52.0410	Traffic, Customs, and Transportation Cler	16	Transportation, Distribution & Logistics	1	2

Mtch Clstr* If the SOC Recommended Cluster matches the CIP Recommended Cluster, the number is 1. 0 if no match.

Cross Walk Rel Strength** If the NCES CIP-SOC Crosswalk shows a relationship and the clusters match, the Crosswalk Related Strength is 2. If the NCES Crosswalk shows a relationship but the clusters don't match, the Crosswalk Related Strength is 1. The NCES CIP-SOC Crosswalk has relationship for many programs to Post-Secondary faculty and several management occupations. While it is possible that students eventually will earn a Master's or PhD to become a faculty, this requires many additional years of preparation and the occupations are not as directly related to CTE. As a result, we have included the occupations but have given these occupations a lower score.