



DCTE NON-TRADITIONAL CROSSWALK

DIVISION OF CAREER & TECHNICAL EDUCATION

NON-TRADITIONAL CROSSWALK

Perkins V – The purpose of this Act is to develop more fully the academic knowledge and technical and employability skills of secondary education students and postsecondary education students who elect to enroll in career and technical education programs and programs of study. Section 2

Non-traditional fields – The term ‘non-traditional fields’ means occupations or fields of work, such as careers in computer science, technology, and other current and emerging high skill occupations, for which individuals from one gender comprise less than 25 percent of the individuals employed in each such occupation or field of work. Section 3 (33)

Source: Hyslop, A. (2018). Perkins V The Official Guide. Alexandria, VA: Association for Career and Technical Education.

CIP 6 2020	CIP Title 2020	Example of an Associated Occupation for which the Program Prepares Students	Female	Male	Recommended Cluster Name_2020
01.0101	Agricultural Business and Management, General.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0102	Agribusiness/Agricultural Business Operations.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0104	Farm/Farm and Ranch Management.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0105	Agricultural/Farm Supplies Retailing and Wholesaling.	Buyers and purchasing agents, farm products	Y	N	Agriculture, Food & Natural Resources
01.0199	Agricultural Business and Management, Other.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0201	Agricultural Mechanization, General.	Heavy vehicle and mobile equipment service technicians and mechanics	Y	N	Agriculture, Food & Natural Resources
01.0204	Agricultural Power Machinery Operation.	Heavy vehicle and mobile equipment service technicians and mechanics	Y	N	Agriculture, Food & Natural Resources
01.0205	Agricultural Mechanics and Equipment/Machine Technology.	Heavy vehicle and mobile equipment service technicians and mechanics	Y	N	Agriculture, Food & Natural Resources
01.0207	Irrigation Management Technology/Technician.	Heavy vehicle and mobile equipment service technicians and mechanics	Y	N	Agriculture, Food & Natural Resources
01.0299	Agricultural Mechanization, Other.	Heavy vehicle and mobile equipment service technicians and mechanics	Y	N	Agriculture, Food & Natural Resources
01.0301	Agricultural Production Operations, General.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0302	Animal/Livestock Husbandry and Production.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0303	Aquaculture.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0304	Crop Production.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0306	Dairy Husbandry and Production.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0307	Horse Husbandry/Equine Science and Management.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0308	Agroecology and Sustainable Agriculture.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0310	Apiculture.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0399	Agricultural Production Operations, Other.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0401	Agricultural and Food Products Processing.	First-line supervisors of farming, fishing, and forestry workers	Y	N	Agriculture, Food & Natural Resources
01.0504	Dog/Pet/Animal Grooming.	Nonfarm animal caretakers	N	Y	Agriculture, Food & Natural Resources



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01.0509	Farrier Science.	Nonfarm animal caretakers	N	Y	Agriculture, Food & Natural Resources
01.0601	Applied Horticulture/Horticulture Operations, General.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0603	Ornamental Horticulture.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0604	Greenhouse Operations and Management.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0605	Landscaping and Groundskeeping.	First-line supervisors of landscaping, lawn service, and groundskeeping workers	Y	N	Agriculture, Food & Natural Resources
01.0606	Plant Nursery Operations and Management.	First-line supervisors of landscaping, lawn service, and groundskeeping workers	Y	N	Agriculture, Food & Natural Resources
01.0607	Turf and Turfgrass Management.	First-line supervisors of landscaping, lawn service, and groundskeeping workers	Y	N	Agriculture, Food & Natural Resources
01.0609	Public Horticulture.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0610	Urban and Community Horticulture.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0901	Animal Sciences, General.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0902	Agricultural Animal Breeding.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0903	Animal Health.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0904	Animal Nutrition.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0905	Dairy Science.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0906	Livestock Management.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0907	Poultry Science.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.0999	Animal Sciences, Other.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.1003	Brewing Science.	Chemical processing machine setters, operators, and tenders	Y	N	Agriculture, Food & Natural Resources
01.1004	Viticulture and Enology.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.1005	Zymology/Fermentation Science.	Chemical processing machine setters, operators, and tenders	Y	N	Agriculture, Food & Natural Resources
01.1101	Plant Sciences, General.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.1102	Agronomy and Crop Science.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.1103	Horticultural Science.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.1105	Plant Protection and Integrated Pest Management.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.1106	Range Science and Management.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.1301	Agricultural Production Operations, General.	Farmers, ranchers, and other agricultural managers	Y	N	Agriculture, Food & Natural Resources
01.8201	Veterinary Administrative Services, General.	Secretaries and administrative assistants	N	Y	Agriculture, Food & Natural Resources
01.8203	Veterinary Reception/Receptionist.	Receptionists and information clerks	N	Y	Agriculture, Food & Natural Resources
01.8204	Veterinary Administrative/Executive Assistant and Veterinary Secretary.	Secretaries and administrative assistants	N	Y	Agriculture, Food & Natural Resources
01.8301	Veterinary/Animal Health Technology/Technician and Veterinary Assistant.	Veterinary assistants and laboratory animal caretakers	N	Y	Agriculture, Food & Natural Resources
01.8399	Veterinary/Animal Health Technologies/Technicians, Other.	Veterinary assistants and laboratory animal caretakers	N	Y	Agriculture, Food & Natural Resources
03.0208	Natural Resources Law Enforcement and Protective Services.	Police and sheriff's patrol officers	Y	N	Agriculture, Food & Natural Resources



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03.0210	Bioenergy.	NO MATCH			Agriculture, Food & Natural Resources
03.0301	Fishing and Fisheries Sciences and Management.	First-line supervisors of farming, fishing, and forestry workers	Y	N	Agriculture, Food & Natural Resources
03.0501	Forestry, General.	First-line supervisors of farming, fishing, and forestry workers	Y	N	Agriculture, Food & Natural Resources
03.0510	Forest Resources Production and Management.	First-line supervisors of farming, fishing, and forestry workers	Y	N	Agriculture, Food & Natural Resources
03.0511	Forest Technology/Technician.	Forest and conservation workers	Y	N	Agriculture, Food & Natural Resources
03.0599	Forestry, Other.	Forest and conservation workers	Y	N	Agriculture, Food & Natural Resources
15.0506	Water Quality and Wastewater Treatment Management and Recycling Technology/Technician.	Water and liquid waste treatment plant and system operators	Y	N	Agriculture, Food & Natural Resources
15.0507	Environmental Engineering Technology/Environmental Technology.	Engineering technicians, except drafters	Y	N	Agriculture, Food & Natural Resources
15.0508	Hazardous Materials Management and Waste Technology/Technician.	Hazardous materials removal workers	Y	N	Agriculture, Food & Natural Resources
15.0599	Environmental Control Technologies/Technicians, Other.	Engineering technicians, except drafters	Y	N	Agriculture, Food & Natural Resources
15.0901	Mining Technology/Technician.	Derrick, rotary drill, and service unit operators, oil, gas, and mining	Y	N	Agriculture, Food & Natural Resources
15.0903	Petroleum Technology/Technician.	Miscellaneous plant and system operators	Y	N	Agriculture, Food & Natural Resources
31.0302	Golf Course Operation and Grounds Management.	First-line supervisors of landscaping, lawn service, and groundskeeping workers	Y	N	Agriculture, Food & Natural Resources
49.0303	Commercial Fishing.	Ship and boat captains and operators	Y	N	Agriculture, Food & Natural Resources
04.0201	Architecture.	Architects, except naval	Y	N	Architecture & Construction
04.0202	Architectural Design.	Architects, except naval	Y	N	Architecture & Construction
04.0401	Environmental Design/Architecture.	Architects, except naval	Y	N	Architecture & Construction
04.0402	Healthcare Environment Design/Architecture.	Architectural and engineering managers	Y	N	Architecture & Construction
04.0501	Interior Architecture.	Architectural and engineering managers	Y	N	Architecture & Construction
04.0601	Landscape Architecture.	Architects, except naval	Y	N	Architecture & Construction
04.0901	Architectural Technology/Technician.	Drafters	Y	N	Architecture & Construction
04.0902	Architectural and Building Sciences/Technology.	Architectural and engineering managers	Y	N	Architecture & Construction
04.0999	Architectural Sciences and Technology, Other.	Drafters	Y	N	Architecture & Construction
15.0101	Architectural Engineering Technology/Technician.	Engineering technicians, except drafters	Y	N	Architecture & Construction
15.0201	Civil Engineering Technology/Technician.	Engineering technicians, except drafters	Y	N	Architecture & Construction
15.1001	Construction Engineering Technology/Technician.	Construction managers	Y	N	Architecture & Construction
15.1303	Architectural Drafting and Architectural CAD/CADD.	Drafters	Y	N	Architecture & Construction
15.1304	Civil Drafting and Civil Engineering CAD/CADD.	Drafters	Y	N	Architecture & Construction
15.1305	Electrical/Electronics Drafting and Electrical/Electronics CAD/CADD.	Drafters	Y	N	Architecture & Construction
15.1306	Mechanical Drafting and Mechanical Drafting CAD/CADD.	Drafters	Y	N	Architecture & Construction
15.1399	Drafting/Design Engineering Technologies/Technicians, Other.	Drafters	Y	N	Architecture & Construction
46.0000	Construction Trades, General.	First-line supervisors/managers of construction trades and extraction workers	Y	N	Architecture & Construction



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46.0101	Mason/Masonry.	Brickmasons, blockmasons, and stonemasons	Y	N	Architecture & Construction
46.0201	Carpentry/Carpenter.	Carpenters	Y	N	Architecture & Construction
46.0301	Electrical and Power Transmission Installation/Installer, General.	Electrical and electronics repairers, industrial and utility	Y	N	Architecture & Construction
46.0302	Electrician.	Signal and track switch repairers	Y	N	Architecture & Construction
46.0303	Lineworker.	Electrical power-line installers and repairers	Y	N	Architecture & Construction
46.0399	Electrical and Power Transmission Installers, Other.	Electrical power-line installers and repairers	Y	N	Architecture & Construction
46.0401	Building/Property Maintenance.	First-line supervisors of construction trades and extraction workers	Y	N	Architecture & Construction
46.0402	Concrete Finishing/Concrete Finisher.	Cement masons, concrete finishers, and terrazzo workers	Y	N	Architecture & Construction
46.0403	Building/Home/Construction Inspection/Inspector.	First-line supervisors of construction trades and extraction workers	Y	N	Architecture & Construction
46.0404	Drywall Installation/Drywaller.	Drywall installers, ceiling tile installers, and tapers	Y	N	Architecture & Construction
46.0406	Glazier.	First-line supervisors of construction trades and extraction workers	Y	N	Architecture & Construction
46.0408	Painting/Painter and Wall Coverer.	Paperhangers	Y	N	Architecture & Construction
46.0410	Roofer.	Roofers	Y	N	Architecture & Construction
46.0411	Metal Building Assembly/Assembler.	Structural iron and steel workers	Y	N	Architecture & Construction
46.0412	Building/Construction Site Management/Manager.	First-line supervisors of construction trades and extraction workers	Y	N	Architecture & Construction
46.0413	Carpet, Floor, and Tile Worker.	Carpet, floor, and tile installers and finishers	Y	N	Architecture & Construction
46.0414	Insulator.	Insulation workers	Y	N	Architecture & Construction
46.0415	Building Construction Technology.	First-line supervisors of construction trades and extraction workers	Y	N	Architecture & Construction
46.0499	Building/Construction Finishing, Management, and Inspection, Other.	NO MATCH			Architecture & Construction
46.0502	Pipefitting/Pipefitter and Sprinkler Fitter.	Pipelayers, plumbers, pipefitters, and steamfitters	Y	N	Architecture & Construction
46.0503	Plumbing Technology/Plumber.	Septic tank servicers and sewer pipe cleaners	Y	N	Architecture & Construction
46.0504	Well Drilling/Driller.	Derrick, rotary drill, and service unit operators, oil, gas, and mining	Y	N	Architecture & Construction
46.0505	Blasting/Blaster.	Explosives workers, ordnance handling experts, and blasters	Y	N	Architecture & Construction
46.0599	Plumbing and Related Water Supply Services, Other.	Pipelayers, plumbers, pipefitters, and steamfitters	Y	N	Architecture & Construction
46.9999	Construction Trades, Other.	NO MATCH			Architecture & Construction
47.0110	Security System Installation, Repair, and Inspection Technology/Technician.	Security and fire alarm systems installers	Y	N	Architecture & Construction
47.0201	Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician.	Heating, air conditioning, and refrigeration mechanics and installers	Y	N	Architecture & Construction
48.0509	Ironworking/Ironworker.	Structural iron and steel workers	Y	N	Architecture & Construction
48.0801	Boilermaking/Boilermaker.	Boilermakers	Y	N	Architecture & Construction



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52.2001	Construction Management.	Construction managers	Y	N	Architecture & Construction
01.0802	Agricultural Communication/Journalism.	Broadcast and sound engineering technicians and radio operators	Y	N	Arts, Audio/Video Technology & Communications
09.0404	Photojournalism.	Television, video, and motion picture camera operators and editors	Y	N	Arts, Audio/Video Technology & Communications
09.0701	Radio and Television.	Television, video, and motion picture camera operators and editors	Y	N	Arts, Audio/Video Technology & Communications
10.0105	Communications Technology/Technician.	Broadcast and sound engineering technicians and radio operators	Y	N	Arts, Audio/Video Technology & Communications
10.0201	Photographic and Film/Video Technology/Technician and Assistant.	Broadcast and sound engineering technicians and radio operators	Y	N	Arts, Audio/Video Technology & Communications
10.0202	Radio and Television Broadcasting Technology/Technician.	Broadcast and sound engineering technicians and radio operators	Y	N	Arts, Audio/Video Technology & Communications
10.0203	Recording Arts Technology/Technician.	Broadcast and sound engineering technicians and radio operators	Y	N	Arts, Audio/Video Technology & Communications
10.0299	Audiovisual Communications Technologies/Technicians, Other.	Broadcast and sound engineering technicians and radio operators	Y	N	Arts, Audio/Video Technology & Communications
10.0302	Printing Management.	Printing press operators	Y	N	Arts, Audio/Video Technology & Communications
10.0305	Graphic and Printing Equipment Operator, General Production.	Printing press operators	Y	N	Arts, Audio/Video Technology & Communications
10.0307	Printing Press Operator.	Printing press operators	Y	N	Arts, Audio/Video Technology & Communications
10.0399	Graphic Communications, Other.	Printing press operators	Y	N	Arts, Audio/Video Technology & Communications
10.9999	Communications Technologies/Technicians and Support Services, Other.	NO MATCH			Arts, Audio/Video Technology & Communications
12.0406	Make-Up Artist/Specialist.	Hairdressers, hairstylists, and cosmetologists	N	Y	Arts, Audio/Video Technology & Communications
50.0301	Dance, General.	Dancers and choreographers	N	Y	Arts, Audio/Video Technology & Communications
50.0302	Ballet.	Dancers and choreographers	N	Y	Arts, Audio/Video Technology & Communications
50.0399	Dance, Other.	Dancers and choreographers	N	Y	Arts, Audio/Video Technology & Communications
50.0509	Musical Theatre.	Dancers and choreographers	N	Y	Arts, Audio/Video Technology & Communications
50.0512	Theatre and Dance.	Dancers and choreographers	N	Y	Arts, Audio/Video Technology & Communications
50.0602	Cinematography and Film/Video Production.	Television, video, and motion picture camera operators and editors	Y	N	Arts, Audio/Video Technology & Communications
50.0607	Documentary Production.	Television, video, and motion picture camera operators and editors	Y	N	Arts, Audio/Video Technology & Communications
50.0913	Music Technology.	Broadcast and sound engineering technicians and radio operators	Y	N	Arts, Audio/Video Technology & Communications
52.0501	Business/Corporate Communications.	Proofreaders and copy markers	N	Y	Arts, Audio/Video Technology & Communications
11.0602	Word Processing.	Word processors and typists	N	Y	Business Management & Administration
51.0707	Health Information/Medical Records Technology/Technician.	Medical records and health information technicians	N	Y	Business Management & Administration
51.0710	Medical Office Assistant/Specialist.	Secretaries and administrative assistants	N	Y	Business Management & Administration



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51.0711	Medical/Health Management and Clinical Assistant/Specialist.	Medical assistants	N	Y	Business Management & Administration
51.0712	Medical Reception/Receptionist.	Secretaries and administrative assistants	N	Y	Business Management & Administration
51.0713	Medical Insurance Coding Specialist/Coder.	Medical records and health information technicians	N	Y	Business Management & Administration
51.0714	Medical Insurance Specialist/Medical Biller.	Secretaries and administrative assistants	N	Y	Business Management & Administration
51.0716	Medical Administrative/Executive Assistant and Medical Secretary.	Secretaries and administrative assistants	N	Y	Business Management & Administration
52.0101	Business/Commerce, General.	Construction managers	Y	N	Business Management & Administration
52.0201	Business Administration and Management, General.	Construction managers	Y	N	Business Management & Administration
52.0202	Purchasing, Procurement/Acquisitions and Contracts Management.	Industrial production managers	Y	N	Business Management & Administration
52.0205	Operations Management and Supervision.	First-line supervisors of mechanics, installers, and repairers	Y	N	Business Management & Administration
52.0216	Science/Technology Management.	Architectural and engineering managers	Y	N	Business Management & Administration
52.0401	Administrative Assistant and Secretarial Science, General.	Secretaries and administrative assistants	N	Y	Business Management & Administration
52.0402	Executive Assistant/Executive Secretary.	Secretaries and administrative assistants	N	Y	Business Management & Administration
52.0406	Receptionist.	Receptionists and information clerks	N	Y	Business Management & Administration
52.0408	General Office Occupations and Clerical Services.	Office clerks, general	N	Y	Business Management & Administration
52.0907	Meeting and Event Planning.	Meeting, convention, and event planners	N	Y	Business Management & Administration
52.1001	Human Resources Management/Personnel Administration, General.	Compensation, benefits, and job analysis specialists	N	Y	Business Management & Administration
52.1006	Executive/Career Coaching.	Counselors	N	Y	Business Management & Administration
52.1099	Human Resources Management and Services, Other.	Human resources assistants, except payroll and timekeeping	N	Y	Business Management & Administration
52.1201	Management Information Systems, General.	Computer programmers	Y	N	Business Management & Administration
52.2002	Construction Project Management.	Construction managers	Y	N	Business Management & Administration
52.2099	Construction Management, Other.	Construction managers	Y	N	Business Management & Administration
13.0101	Education, General.	Teacher assistants	N	Y	Education & Training
13.0201	Bilingual and Multilingual Education.	Preschool and kindergarten teachers	N	Y	Education & Training
13.0501	Educational/Instructional Technology.	Librarians	N	Y	Education & Training
13.1001	Special Education and Teaching, General.	Special education teachers	N	Y	Education & Training
13.1003	Education/Teaching of Individuals with Hearing Impairments Including Deafness.	Special education teachers	N	Y	Education & Training
13.1004	Education/Teaching of the Gifted and Talented.	Special education teachers	N	Y	Education & Training
13.1005	Education/Teaching of Individuals with Emotional Disturbances.	Special education teachers	N	Y	Education & Training
13.1006	Education/Teaching of Individuals with Mental Retardation.	Special education teachers	N	Y	Education & Training
13.1007	Education/Teaching of Individuals with Multiple Disabilities.	Special education teachers	N	Y	Education & Training
13.1008	Education/Teaching of Individuals with Orthopedic and Other Physical Health Impairments.	Special education teachers	N	Y	Education & Training
13.1009	Education/Teaching of Individuals with Vision Impairments Including Blindness.	Special education teachers	N	Y	Education & Training
13.1011	Education/Teaching of Individuals with Specific Learning Disabilities.	Special education teachers	N	Y	Education & Training
13.1012	Education/Teaching of Individuals with Speech or Language Impairments.	Special education teachers	N	Y	Education & Training



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13.1013	Education/Teaching of Individuals with Autism.	Special education teachers	N	Y	Education & Training
13.1014	Education/Teaching of Individuals Who are Developmentally Delayed.	Special education teachers	N	Y	Education & Training
13.1015	Education/Teaching of Individuals in Early Childhood Special Education Programs.	Special education teachers	N	Y	Education & Training
13.1016	Education/Teaching of Individuals with Traumatic Brain Injuries.	Special education teachers	N	Y	Education & Training
13.1017	Education/Teaching of Individuals in Elementary Special Education Programs.	Special education teachers	N	Y	Education & Training
13.1018	Education/Teaching of Individuals in Junior High/Middle School Special Education Programs.	Special education teachers	N	Y	Education & Training
13.1019	Education/Teaching of Individuals in Secondary Special Education Programs.	Special education teachers	N	Y	Education & Training
13.1099	Special Education and Teaching, Other.	Special education teachers	N	Y	Education & Training
13.1101	Counselor Education/School Counseling and Guidance Services.	Counselors	N	Y	Education & Training
13.1102	College Student Counseling and Personnel Services.	Counselors	N	Y	Education & Training
13.1199	Student Counseling and Personnel Services, Other.	Counselors	N	Y	Education & Training
13.1202	Elementary Education and Teaching.	Elementary and middle school teachers	N	Y	Education & Training
13.1203	Junior High/Intermediate/Middle School Education and Teaching.	Elementary and middle school teachers	N	Y	Education & Training
13.1206	Teacher Education, Multiple Levels.	Preschool and kindergarten teachers	N	Y	Education & Training
13.1207	Montessori Teacher Education.	Preschool and kindergarten teachers	N	Y	Education & Training
13.1208	Waldorf/Steiner Teacher Education.	Preschool and kindergarten teachers	N	Y	Education & Training
13.1209	Kindergarten/Preschool Education and Teaching.	Preschool and kindergarten teachers	N	Y	Education & Training
13.1210	Early Childhood Education and Teaching.	Preschool and kindergarten teachers	N	Y	Education & Training
13.1211	Online Educator/Online Teaching.	Elementary and middle school teachers	N	Y	Education & Training
13.1212	International Teaching and Learning.	Elementary and middle school teachers	N	Y	Education & Training
13.1213	Science, Technology, Engineering, and Mathematics (STEM) Educational Methods.	Elementary and middle school teachers	N	Y	Education & Training
13.1301	Agricultural Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1302	Art Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1303	Business Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1305	English/Language Arts Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1306	Foreign Language Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1307	Health Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1308	Family and Consumer Sciences/Home Economics Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1309	Technology Teacher Education/Industrial Arts Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1310	Sales and Marketing Operations/Marketing and Distribution Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1311	Mathematics Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1312	Music Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1314	Physical Education Teaching and Coaching.	Elementary and middle school teachers	N	Y	Education & Training
13.1315	Reading Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training



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13.1316	Science Teacher Education/General Science Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1317	Social Science Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1318	Social Studies Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1319	Technical Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1320	Trade and Industrial Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1321	Computer Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1322	Biology Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1323	Chemistry Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1324	Drama and Dance Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1325	French Language Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1326	German Language Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1327	Health Occupations Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1328	History Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1329	Physics Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1330	Spanish Language Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1331	Speech Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1332	Geography Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1333	Latin Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1334	School Librarian/School Library Media Specialist.	Librarians	N	Y	Education & Training
13.1337	Earth Science Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1338	Environmental Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1339	Communication Arts and Literature Teacher Education.	Elementary and middle school teachers	N	Y	Education & Training
13.1401	Teaching English as a Second or Foreign Language/ESL Language Instructor.	Elementary and middle school teachers	N	Y	Education & Training
13.1402	Teaching French as a Second or Foreign Language.	Elementary and middle school teachers	N	Y	Education & Training
13.1499	Teaching English or French as a Second or Foreign Language, Other.	Elementary and middle school teachers	N	Y	Education & Training
13.1501	Teacher Assistant/Aide.	Teacher assistants	N	Y	Education & Training
13.1502	Adult Literacy Tutor/Instructor.	Teacher assistants	N	Y	Education & Training
13.1599	Teaching Assistants/Aides, Other.	Teacher assistants	N	Y	Education & Training
51.3601	Movement Therapy and Movement Education.	Therapists, all other	N	Y	Education & Training
30.1601	Accounting and Computer Science.	Software developers, applications and systems software	Y	N	Finance
52.0302	Accounting Technology/Technician and Bookkeeping.	Bookkeeping, accounting, and auditing clerks	N	Y	Finance
52.0803	Banking and Financial Support Services.	Tellers	N	Y	Finance
52.1701	Insurance.	Compensation, benefits, and job analysis specialists	N	Y	Finance
28.0503	Military Operational Art and Science/Studies.	See Note on Military Occupations	Y	N	Government & Public Administration
28.0504	Advanced Military and Operational Studies.	See Note on Military Occupations	Y	N	Government & Public Administration
28.0505	Naval Science and Operational Studies.	See Note on Military Occupations	Y	N	Government & Public Administration
28.0506	Special, Irregular and Counterterrorist Operations.	See Note on Military Occupations	Y	N	Government & Public Administration



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CIP 6 2020	CIP Title 2020	Example of an Associated Occupation for which the Program Prepares Students	Female	Male	Recommended Cluster Name_2020
28.0599	Military Science and Operational Studies, Other.	See Note on Military Occupations	Y	N	Government & Public Administration
28.0601	Strategic Studies, General.	See Note on Military Occupations	Y	N	Government & Public Administration
28.0602	Military and Strategic Leadership.	See Note on Military Occupations	Y	N	Government & Public Administration
28.0603	Military and International Operational Law.	See Note on Military Occupations	Y	N	Government & Public Administration
28.0604	Joint Operations Planning and Strategy.	See Note on Military Occupations	Y	N	Government & Public Administration
28.0605	Weapons of Mass Destruction.	See Note on Military Occupations	Y	N	Government & Public Administration
28.0699	National Security Policy and Strategy, Other.	See Note on Military Occupations	Y	N	Government & Public Administration
28.0701	National Resource Strategy and Policy.	See Note on Military Occupations	Y	N	Government & Public Administration
28.0702	Industry Studies.	See Note on Military Occupations	Y	N	Government & Public Administration
28.0703	Military Installation Management.	See Note on Military Occupations	Y	N	Government & Public Administration
28.0799	Military Economics and Management, Other.	See Note on Military Occupations	Y	N	Government & Public Administration
28.9999	Military Science, Leadership and Operational Art, Other.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0101	Military Technologies.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0201	Intelligence, General.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0202	Strategic Intelligence.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0203	Signal/Geospatial Intelligence.	Surveyors, cartographers, and photogrammetrists	Y	N	Government & Public Administration
29.0204	Command & Control (C3, C4) Systems and Operations.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0205	Information Operations/Joint Information Operations.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0206	Information/Psychological Warfare and Military Media Relations.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0207	Cyber/Electronic Operations and Warfare.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0299	Intelligence, Command Control and Information Operations, Other.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0301	Combat Systems Engineering.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0302	Directed Energy Systems.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0303	Engineering Acoustics.	Engineering technicians, except drafters	Y	N	Government & Public Administration
29.0306	Operational Oceanography.	Engineering technicians, except drafters	Y	N	Government & Public Administration
29.0307	Undersea Warfare.	Engineering technicians, except drafters	Y	N	Government & Public Administration
29.0401	Aerospace Ground Equipment Technology.	Engineering technicians, except drafters	Y	N	Government & Public Administration
29.0402	Air and Space Operations Technology.	Engineering technicians, except drafters	Y	N	Government & Public Administration
29.0404	Explosive Ordnance/Bomb Disposal.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0405	Joint Command/Task Force (C3, C4) Systems.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0406	Military Information Systems Technology.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0407	Missile and Space Systems Technology.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0408	Munitions Systems/Ordnance Technology.	See Note on Military Occupations	Y	N	Government & Public Administration
29.0409	Radar Communications and Systems Technology.	Engineering technicians, except drafters	Y	N	Government & Public Administration
44.0401	Public Administration.	Transportation, storage, and distribution managers	Y	N	Government & Public Administration
26.1103	Bioinformatics.	Computer occupations, all other	Y	N	Health Science
51.0201	Communication Sciences and Disorders, General.	Speech-language pathologists	N	Y	Health Science
51.0202	Audiology/Audiologist.	Audiologists	N	Y	Health Science
51.0203	Speech-Language Pathology/Pathologist.	Speech-language pathologists	N	Y	Health Science



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CIP 6 2020	CIP Title 2020	Example of an Associated Occupation for which the Program Prepares Students	Female	Male	Recommended Cluster Name_2020
51.0204	Audiology/Audiologist and Speech-Language Pathology/Pathologist.	Speech-language pathologists	N	Y	Health Science
51.0299	Communication Disorders Sciences and Services, Other.	Speech-language pathologists	N	Y	Health Science
51.0601	Dental Assisting/Assistant.	Dental assistants	N	Y	Health Science
51.0602	Dental Hygiene/Hygienist.	Dental hygienists	N	Y	Health Science
51.0721	Disease Registry Data Management.	Medical records and health information technicians	N	Y	Health Science
51.0723	Healthcare Information Privacy Assurance and Security.	Medical records and health information technicians	N	Y	Health Science
51.0801	Medical/Clinical Assistant.	Medical assistants	N	Y	Health Science
51.0803	Occupational Therapist Assistant.	Occupational therapist assistants and aides	N	Y	Health Science
51.0805	Pharmacy Technician/Assistant.	Health practitioner support technologists and technicians	N	Y	Health Science
51.0809	Anesthesiologist Assistant.	Medical assistants	N	Y	Health Science
51.0811	Pathology/Pathologist Assistant.	Health practitioner support technologists and technicians	N	Y	Health Science
51.0812	Respiratory Therapy Technician/Assistant.	Health practitioner support technologists and technicians	N	Y	Health Science
51.0813	Chiropractic Assistant/Technician.	Medical assistants	N	Y	Health Science
51.0909	Surgical Technology/Technologist.	Health practitioner support technologists and technicians	N	Y	Health Science
51.0916	Radiation Protection/Health Physics Technician.	Nuclear technicians	Y	N	Health Science
51.1009	Phlebotomy Technician/Phlebotomist.	Phlebotomists	N	Y	Health Science
51.1203	Podiatric Medicine/Podiatry.	Podiatrists	Y	N	Health Science
51.1502	Psychiatric/Mental Health Services Technician.	Nursing, psychiatric, and home health aides	N	Y	Health Science
51.1507	Psychoanalysis and Psychotherapy.	Psychologists	N	Y	Health Science
51.1510	Infant/Toddler Mental Health Services.	Counselors	N	Y	Health Science
51.1511	Medical Family Therapy/Therapist.	Counselors	N	Y	Health Science
51.1512	Hospice and Palliative Care.	Social workers	N	Y	Health Science
51.1513	Trauma Counseling.	Counselors	N	Y	Health Science
51.1802	Optometric Technician/Assistant.	Health practitioner support technologists and technicians	N	Y	Health Science
51.1803	Ophthalmic Technician/Technologist.	Health practitioner support technologists and technicians	N	Y	Health Science
51.1804	Orthoptics/Orthoptist.	Health practitioner support technologists and technicians	N	Y	Health Science
51.2006	Clinical and Industrial Drug Development.	Industrial production managers	Y	N	Health Science
51.2009	Industrial and Physical Pharmacy and Cosmetic Sciences.	Industrial production managers	Y	N	Health Science
51.2300	Rehabilitation and Therapeutic Professions, General.	Therapists, all other	N	Y	Health Science
51.2301	Art Therapy/Therapist.	Therapists, all other	N	Y	Health Science
51.2302	Dance Therapy/Therapist.	Therapists, all other	N	Y	Health Science
51.2305	Music Therapy/Therapist.	Therapists, all other	N	Y	Health Science



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CIP 6 2020	CIP Title 2020	Example of an Associated Occupation for which the Program Prepares Students	Female	Male	Recommended Cluster Name_2020
51.2306	Occupational Therapy/Therapist.	Occupational therapists	N	Y	Health Science
51.2309	Therapeutic Recreation/Recreational Therapy.	Recreational therapists	N	Y	Health Science
51.2312	Assistive/Augmentative Technology and Rehabilitation Engineering.	Counselors	N	Y	Health Science
51.2312	Assistive/Augmentative Technology and Rehabilitation Engineering.	Engineers, all other	Y	N	Health Science
51.2313	Animal-Assisted Therapy.	Therapists, all other	N	Y	Health Science
51.2314	Rehabilitation Science.	Counselors	N	Y	Health Science
51.2315	Drama Therapy/Therapist.	Therapists, all other	N	Y	Health Science
51.2316	Horticulture Therapy/Therapist.	Therapists, all other	N	Y	Health Science
51.2317	Play Therapy/Therapist.	Therapists, all other	N	Y	Health Science
51.2399	Rehabilitation and Therapeutic Professions, Other.	Therapists, all other	N	Y	Health Science
51.2601	Health Aide.	Nursing, psychiatric, and home health aides	N	Y	Health Science
51.2602	Home Health Aide/Home Attendant.	Nursing, psychiatric, and home health aides	N	Y	Health Science
51.2604	Rehabilitation Aide.	Occupational therapy assistants and aides	N	Y	Health Science
51.2706	Medical Informatics.	Computer occupations, all other	Y	N	Health Science
51.3101	Dietetics/Dietitian.	Dietitians and nutritionists	N	Y	Health Science
51.3102	Clinical Nutrition/Nutritionist.	Dietitians and nutritionists	N	Y	Health Science
51.3103	Dietetic Technician.	Health practitioner support technologists and technicians	N	Y	Health Science
51.3104	Dietitian Assistant.	Health practitioner support technologists and technicians	N	Y	Health Science
51.3199	Dietetics and Clinical Nutrition Services, Other.	Dietitians and nutritionists	N	Y	Health Science
51.3501	Massage Therapy/Therapeutic Massage.	Massage therapists	N	Y	Health Science
51.3502	Asian Bodywork Therapy.	Massage therapists	N	Y	Health Science
51.3503	Somatic Bodywork.	Massage therapists	N	Y	Health Science
51.3599	Somatic Bodywork and Related Therapeutic Services, Other.	Massage therapists	N	Y	Health Science
51.3801	Registered Nursing/Registered Nurse.	Registered nurses	N	Y	Health Science
51.3802	Nursing Administration.	Registered nurses	N	Y	Health Science
51.3803	Adult Health Nurse/Nursing.	Registered nurses	N	Y	Health Science
51.3805	Family Practice Nurse/Nursing.	Registered nurses	N	Y	Health Science
51.3806	Maternal/Child Health and Neonatal Nurse/Nursing.	Registered nurses	N	Y	Health Science
51.3807	Nurse Midwife/Nursing Midwifery.	Nurse midwives	N	Y	Health Science
51.3808	Nursing Science.	Registered nurses	N	Y	Health Science
51.3809	Pediatric Nurse/Nursing.	Registered nurses	N	Y	Health Science
51.3810	Psychiatric/Mental Health Nurse/Nursing.	Registered nurses	N	Y	Health Science
51.3811	Public Health/Community Nurse/Nursing.	Registered nurses	N	Y	Health Science
51.3812	Perioperative/Operating Room and Surgical Nurse/Nursing.	Registered nurses	N	Y	Health Science
51.3813	Clinical Nurse Specialist.	Registered nurses	N	Y	Health Science
51.3814	Critical Care Nursing.	Registered nurses	N	Y	Health Science
51.3815	Occupational and Environmental Health Nursing.	Registered nurses	N	Y	Health Science



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CIP 6 2020	CIP Title 2020	Example of an Associated Occupation for which the Program Prepares Students	Female	Male	Recommended Cluster Name_2020
51.3816	Emergency Room/Trauma Nursing.	Registered nurses	N	Y	Health Science
51.3818	Nursing Practice.	Registered nurses	N	Y	Health Science
51.3819	Palliative Care Nursing.	Registered nurses	N	Y	Health Science
51.3820	Clinical Nurse Leader.	Registered nurses	N	Y	Health Science
51.3821	Geriatric Nurse/Nursing.	Registered nurses	N	Y	Health Science
51.3822	Women's Health Nurse/Nursing.	Registered nurses	N	Y	Health Science
51.3824	Forensic Nursing.	Registered nurses	N	Y	Health Science
51.3899	Registered Nursing, Nursing Administration, Nursing Research and Clinical Nursing, Other.	Registered nurses	N	Y	Health Science
51.3901	Licensed Practical/Vocational Nurse Training.	Licensed practical and licensed vocational nurses	N	Y	Health Science
51.3902	Nursing Assistant/Aide and Patient Care Assistant/Aide.	Nursing, psychiatric, and home health aides	N	Y	Health Science
51.3999	Practical Nursing, Vocational Nursing and Nursing Assistants, Other.	Licensed practical and licensed vocational nurses	N	Y	Health Science
12.0414	Master Aesthetician/Esthetician.	Miscellaneous personal appearance workers	N	Y	Hospitality & Tourism
12.0500	Cooking and Related Culinary Arts, General.	Chefs and head cooks	Y	N	Hospitality & Tourism
12.0501	Baking and Pastry Arts/Baker/Pastry Chef.	Chefs and head cooks	Y	N	Hospitality & Tourism
12.0503	Culinary Arts/Chef Training.	Chefs and head cooks	Y	N	Hospitality & Tourism
12.0504	Restaurant, Culinary, and Catering Management/Manager.	Chefs and head cooks	Y	N	Hospitality & Tourism
12.0601	Casino Operations and Services, General.	Security guards and gaming surveillance officers	Y	N	Hospitality & Tourism
12.9999	Personal and Culinary Services, Other.	Baggage porters, bellhops, and concierges	Y	N	Hospitality & Tourism
19.0505	Foodservice Systems Administration/Management.	Dietitians and nutritionists	N	Y	Hospitality & Tourism
12.0303	Mortuary Science and Embalming/Embalmer.	Embalmers and funeral attendants	Y	N	Human Services
12.0399	Funeral Service and Mortuary Science, Other.	Morticians, undertakers, and funeral directors	Y	N	Human Services
12.0401	Cosmetology/Cosmetologist, General.	Hairdressers, hairstylists, and cosmetologists	N	Y	Human Services
12.0402	Barbering/Barber.	Barbers	Y	N	Human Services
12.0404	Electrolysis/Electrology and Electrolysis Technician.	Hairdressers, hairstylists, and cosmetologists	N	Y	Human Services
12.0407	Hair Styling/Stylist and Hair Design.	Hairdressers, hairstylists, and cosmetologists	N	Y	Human Services
12.0408	Facial Treatment Specialist/Facialist.	Miscellaneous personal appearance workers	N	Y	Human Services
12.0409	Aesthetician/Esthetician and Skin Care Specialist.	Miscellaneous personal appearance workers	N	Y	Human Services
12.0410	Nail Technician/Specialist and Manicurist.	Miscellaneous personal appearance workers	N	Y	Human Services
12.0411	Permanent Cosmetics/Makeup and Tattooing.	Hairdressers, hairstylists, and cosmetologists	N	Y	Human Services
12.0412	Salon/Beauty Salon Management/Manager.	Hairdressers, hairstylists, and cosmetologists	N	Y	Human Services
12.0413	Cosmetology, Barber/Styling, and Nail Instructor.	Hairdressers, hairstylists, and cosmetologists	N	Y	Human Services
12.0499	Cosmetology and Related Personal Grooming Arts, Other.	Hairdressers, hairstylists, and cosmetologists	N	Y	Human Services
19.0501	Foods, Nutrition, and Wellness Studies, General.	Dietitians and nutritionists	N	Y	Human Services
19.0504	Human Nutrition.	Dietitians and nutritionists	N	Y	Human Services
19.0505	Foodservice.	Dietitians and nutritionists	N	Y	Human Services
19.0599	Foods, Nutrition, and Related Services, Other.	Dietitians and nutritionists	N	Y	Human Services
19.0604	Facilities Planning and Management.	Meeting, convention, and event planners	N	Y	Human Services
19.0702	Adult Development and Aging.	Psychologists	N	Y	Human Services



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CIP 6 2020	CIP Title 2020	Example of an Associated Occupation for which the Program Prepares Students	Female	Male	Recommended Cluster Name_2020
19.0706	Child Development.	Preschool and kindergarten teachers	N	Y	Human Services
19.0708	Child Care and Support Services Management.	Childcare workers	N	Y	Human Services
19.0709	Child Care Provider/Assistant.	Child care workers	N	Y	Human Services
19.0710	Developmental Services Worker.	Social and human service assistants	N	Y	Human Services
19.0711	Early Childhood and Family Studies,	Child care workers	N	Y	Human Services
42.0101	Psychology, General.	Psychologists	N	Y	Human Services
42.2701	Cognitive Psychology and Psycholinguistics.	Psychologists	N	Y	Human Services
42.2702	Comparative Psychology.	Psychologists	N	Y	Human Services
42.2703	Developmental and Child Psychology.	Social workers	N	Y	Human Services
42.2704	Experimental Psychology.	Psychologists	N	Y	Human Services
42.2705	Personality Psychology.	Psychologists	N	Y	Human Services
42.2706	Physiological Psychology/Psychobiology.	Psychologists	N	Y	Human Services
42.2707	Social Psychology.	Psychologists	N	Y	Human Services
42.2708	Psychometrics and Quantitative Psychology.	Psychologists	N	Y	Human Services
42.2709	Psychopharmacology.	Psychologists	N	Y	Human Services
42.2710	Developmental and Adolescent Psychology.	Social workers	N	Y	Human Services
42.2799	Research and Experimental Psychology, Other.	Psychologists	N	Y	Human Services
42.2801	Clinical Psychology.	Psychologists	N	Y	Human Services
42.2802	Community Psychology.	Psychologists	N	Y	Human Services
42.2803	Counseling Psychology.	Psychologists	N	Y	Human Services
42.2804	Industrial and Organizational Psychology.	Psychologists	N	Y	Human Services
42.2805	School Psychology.	Psychologists	N	Y	Human Services
42.2806	Educational Psychology.	Psychologists	N	Y	Human Services
42.2807	Clinical Child Psychology.	Psychologists	N	Y	Human Services
42.2808	Environmental Psychology.	Psychologists	N	Y	Human Services
42.2809	Geropsychology.	Psychologists	N	Y	Human Services
42.2810	Health/Medical Psychology.	Psychologists	N	Y	Human Services
42.2811	Family Psychology.	Psychologists	N	Y	Human Services
42.2812	Forensic Psychology.	Psychologists	N	Y	Human Services
42.2813	Applied Psychology.	Psychologists	N	Y	Human Services
42.2814	Applied Behavior Analysis.	Psychologists	N	Y	Human Services
42.2815	Performance and Sport Psychology.	Psychologists	N	Y	Human Services
42.2816	Somatic Psychology.	Psychologists	N	Y	Human Services
42.2817	Transpersonal/Spiritual Psychology.	Psychologists	N	Y	Human Services
42.2899	Clinical, Counseling and Applied Psychology, Other.	Psychologists	N	Y	Human Services
42.9999	Psychology, Other.	Psychologists	N	Y	Human Services
44.0402	Public Works Management.	Construction managers	Y	N	Human Services
44.0403	Transportation and Infrastructure Planning/Studies.	Transportation, storage, and distribution managers	Y	N	Human Services
44.0701	Social Work.	Social workers	N	Y	Human Services



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CIP 6 2020	CIP Title 2020	Example of an Associated Occupation for which the Program Prepares Students	Female	Male	Recommended Cluster Name_2020
44.0702	Youth Services/Administration.	Social workers	N	Y	Human Services
44.0703	Forensic Social Work.	Social workers	N	Y	Human Services
44.0799	Social Work, Other.	Social workers	N	Y	Human Services
51.1501	Substance Abuse/Addiction Counseling.	Counselors	N	Y	Human Services
51.1503	Clinical/Medical Social Work.	Social workers	N	Y	Human Services
51.1504	Community Health Services/Liaison/Counseling.	Miscellaneous community and social service specialists, including health educators and community health workers	N	Y	Human Services
51.1505	Marriage and Family Therapy/Counseling.	Counselors	N	Y	Human Services
51.1506	Clinical Pastoral Counseling/Patient Counseling.	Counselors	N	Y	Human Services
51.1506	Clinical Pastoral Counseling/Patient Counseling.	Clergy	Y	N	Human Services
51.1508	Mental Health Counseling/Counselor.	Counselors	N	Y	Human Services
51.2310	Vocational Rehabilitation Counseling/Counselor.	Counselors	N	Y	Human Services
11.0101	Computer and Information Sciences, General.	Computer network architects	Y	N	Information Technology
11.0102	Artificial Intelligence.	Software developers, applications and systems software	Y	N	Information Technology
11.0103	Information Technology.	Computer network architects	Y	N	Information Technology
11.0104	Informatics.	Software developers, applications and systems software	Y	N	Information Technology
11.0201	Computer Programming/Programmer, General.	Software developers, applications and systems software	Y	N	Information Technology
11.0202	Computer Programming, Specific Applications.	Software developers, applications and systems software	Y	N	Information Technology
11.0203	Computer Programming, Vendor/Product Certification.	Software developers, applications and systems software	Y	N	Information Technology
11.0204	Computer Game Programming.	Software developers, applications and systems software	Y	N	Information Technology
11.0205	Computer Programming, Specific Platforms.	Software developers, applications and systems software	Y	N	Information Technology
11.0299	Computer Programming, Other.	Computer programmers	Y	N	Information Technology
11.0301	Data Processing and Data Processing Technology/Technician.	Computer occupations, all other	Y	N	Information Technology
11.0401	Information Science/Studies.	Software developers, applications and systems software	Y	N	Information Technology
11.0501	Computer Systems Analysis/Analyst.	Computer network architects	Y	N	Information Technology
11.0701	Computer Science.	Information security analysts	Y	N	Information Technology
11.0804	Modeling, Virtual Environments and Simulation.	Software developers, applications and systems software	Y	N	Information Technology
11.0901	Computer Systems Networking and Telecommunications.	Computer network architects	Y	N	Information Technology
11.0902	Cloud Computing.	Computer network architects	Y	N	Information Technology



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CIP 6 2020	CIP Title 2020	Example of an Associated Occupation for which the Program Prepares Students	Female	Male	Recommended Cluster Name_2020
11.1001	Network and System Administration/Administrator.	Computer network architects	Y	N	Information Technology
11.1002	System, Networking, and LAN/WAN Management/Manager.	Information security analysts	Y	N	Information Technology
11.1003	Computer and Information Systems Security/Information Assurance.	Computer network architects	Y	N	Information Technology
14.0901	Computer Engineering, General.	Computer hardware engineers	Y	N	Information Technology
14.0902	Computer Hardware Engineering.	Computer hardware engineers	Y	N	Information Technology
14.0903	Computer Software Engineering.	Software developers, applications and systems software	Y	N	Information Technology
14.0999	Computer Engineering, Other.	Computer network architects	Y	N	Information Technology
52.1206	Information Resources Management.	Computer and information systems managers	N	N	Information Technology
22.0000	Legal Studies, General.	Paralegals and legal assistants	N	Y	Law, Public Safety, Corrections & Security
22.0301	Legal Administrative Assistant/Secretary.	Secretaries and administrative assistants	N	Y	Law, Public Safety, Corrections & Security
22.0302	Legal Assistant/Paralegal.	Paralegals and legal assistants	N	Y	Law, Public Safety, Corrections & Security
43.0100	Criminal Justice and Corrections, General.	First-line supervisors of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0102	Corrections.	First-line supervisors of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0103	Criminal Justice/Law Enforcement Administration.	First-line supervisors/managers of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0104	Criminal Justice/Safety Studies.	First-line supervisors/managers of correctional officers	Y	N	Law, Public Safety, Corrections & Security
43.0107	Criminal Justice/Police Science.	Police and sheriff's patrol officers	Y	N	Law, Public Safety, Corrections & Security
43.0109	Security and Loss Prevention Services.	Security guards and gaming surveillance officers	Y	N	Law, Public Safety, Corrections & Security
43.0110	Juvenile Corrections.	Social workers	N	Y	Law, Public Safety, Corrections & Security
43.0112	Securities Services Administration/Management.	First-line supervisors, protective service workers, all other	Y	N	Law, Public Safety, Corrections & Security
43.0114	Law Enforcement Investigation and Interviewing.	Police and sheriff's patrol officers	Y	N	Law, Public Safety, Corrections & Security
43.0115	Law Enforcement Record-Keeping and Evidence Management.	First-line supervisors/managers of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0119	Critical Incident Response/Special Police Operations.	First-line supervisors/managers of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0120	Protective Services Operations.	First-line supervisors/managers of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0121	Suspension and Debarment Investigation.	Detectives and criminal investigators	Y	N	Law, Public Safety, Corrections & Security
43.0122	Maritime Law Enforcement.	First-line supervisors/managers of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0123	Cultural/Archaeological Resources Protection.	First-line supervisors/managers of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0201	Fire Prevention and Safety Technology/Technician.	Fire inspectors	Y	N	Law, Public Safety, Corrections & Security
43.0202	Fire Services Administration.	First-line supervisors/managers of fire fighting and prevention workers	Y	N	Law, Public Safety, Corrections & Security
43.0203	Fire Science/Fire-fighting.	Fire inspectors	Y	N	Law, Public Safety, Corrections & Security



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CIP 6 2020	CIP Title 2020	Example of an Associated Occupation for which the Program Prepares Students	Female	Male	Recommended Cluster Name_2020
43.0205	Fire/Arson Investigation and Prevention.	Fire inspectors	Y	N	Law, Public Safety, Corrections & Security
43.0206	Wildland/Forest Firefighting and Investigation.	Fire fighters	Y	N	Law, Public Safety, Corrections & Security
43.0299	Fire Protection, Other.	First-line supervisors/managers of fire fighting and prevention workers	Y	N	Law, Public Safety, Corrections & Security
43.0301	Homeland Security.	First-line supervisors/managers of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0302	Crisis/Emergency/Disaster Management.	First-line supervisors/managers of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0303	Critical Infrastructure Protection.	First-line supervisors/managers of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0304	Terrorism and Counterterrorism Operations.	First-line supervisors/managers of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0401	Security Science and Technology, General.	First-line supervisors/managers of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0402	Criminalistics and Criminal Science.	Police and sherrif's patrol officers	Y	N	Law, Public Safety, Corrections & Security
43.0403	Cyber/Computer Forensics and Counterterrorism.	Information security analysts	Y	N	Law, Public Safety, Corrections & Security
43.0404	Cybersecurity Defense Strategy/Policy.	First-line supervisors/managers of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0405	Financial Forensics and Fraud Investigation.	Detectives and criminal investigators	Y	N	Law, Public Safety, Corrections & Security
43.0407	Geospatial Intelligence.	First-line supervisors/managers of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0408	Law Enforcement Intelligence Analysis.	Detectives and criminal investigators	Y	N	Law, Public Safety, Corrections & Security
43.0499	Security Science and Technology, Other.	First-line supervisors/managers of police and detectives	Y	N	Law, Public Safety, Corrections & Security
43.0399	Homeland Security, Other.	First-line supervisors of protective service workers, all other	Y	N	Law, Public Safety, Corrections & Security
15.0303	Electrical, Electronic and Communications Engineering Technology/Technician.	Engineering technicians, except drafters	Y	N	Manufacturing
15.0304	Laser and Optical Technology/Technician.	Engineering technicians, except drafters	Y	N	Manufacturing
15.0305	Telecommunications Technology/Technician.	Engineering technicians, except drafters	Y	N	Manufacturing
15.0399	Electrical and Electronic Engineering Technologies/Technicians, Other.	Engineering technicians, except drafters	Y	N	Manufacturing
15.0401	Biomedical Technology/Technician.	Precision instrument and equipment repairers	Y	N	Manufacturing
15.0403	Electromechanical Technology/Electromechanical Engineering Technology.	Engineering technicians, except drafters	Y	N	Manufacturing
15.0404	Instrumentation Technology/Technician.	Precision instrument and equipment repairers	Y	N	Manufacturing
15.0405	Robotics Technology/Technician.	Engineering technicians, except drafters	Y	N	Manufacturing
15.0499	Electromechanical and Instrumentation and Maintenance Technologies/Technicians, Other.	Engineering technicians, except drafters	Y	N	Manufacturing
15.0501	Heating, Ventilation, Air Conditioning and Refrigeration Engineering Technology/Technician.	Heating, air conditioning, and refrigeration mechanics and installers	Y	N	Manufacturing



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CIP 6 2020	CIP Title 2020	Example of an Associated Occupation for which the Program Prepares Students	Female	Male	Recommended Cluster Name_2020
15.0607	Plastics and Polymer Engineering Technology/Technician.	Engineering technicians, except drafters	Y	N	Manufacturing
15.0611	Metallurgical Technology/Technician.	Engineering technicians, except drafters	Y	N	Manufacturing
15.0612	Industrial Technology/Technician.	Engineering technicians, except drafters	Y	N	Manufacturing
15.0613	Manufacturing Engineering Technology/Technician.	Engineering technicians, except drafters	Y	N	Manufacturing
15.0699	Industrial Production Technologies/Technicians, Other.	Engineering technicians, except drafters	Y	N	Manufacturing
15.0703	Industrial Safety Technology/Technician.	Engineering technicians, except drafters	Y	N	Manufacturing
15.0801	Aeronautical/Aerospace Engineering Technology/Technician.	Engineering technicians, except drafters	Y	N	Manufacturing
15.0805	Mechanical Engineering/Mechanical Technology/Technician.	Engineering technicians, except drafters	Y	N	Manufacturing
15.0899	Mechanical Engineering Related Technologies/Technicians, Other.	Engineering technicians, except drafters	Y	N	Manufacturing
15.1103	Hydraulics and Fluid Power Technology/Technician.	Engineering technicians, except drafters	Y	N	Manufacturing
15.1201	Computer Engineering Technology/Technician.	Engineering technicians, except drafters	Y	N	Manufacturing
15.1202	Computer Technology/Computer Systems Technology.	Engineering technicians, except drafters	Y	N	Manufacturing
15.1203	Computer Hardware Technology/Technician.	Engineering technicians, except drafters	Y	N	Manufacturing
15.1204	Computer Software Technology/Technician.	Software developers, applications and systems software	Y	N	Manufacturing
15.1299	Computer Engineering Technologies/Technicians, Other.	Engineering technicians, except drafters	Y	N	Manufacturing
15.1301	Drafting and Design Technology/Technician, General.	Drafters	Y	N	Manufacturing
15.1302	CAD/CADD Drafting and/or Design Technology/Technician.	Drafters	Y	N	Manufacturing
15.1401	Nuclear Engineering Technology/Technician.	Engineering technicians, except drafters	Y	N	Manufacturing
41.0204	Industrial Radiologic Technology/Technician.	Nuclear technicians	Y	N	Manufacturing
41.0205	Nuclear/Nuclear Power Technology/Technician.	Nuclear technicians	Y	N	Manufacturing
41.0299	Nuclear and Industrial Radiologic Technologies/Technicians, Other.	Nuclear technicians	Y	N	Manufacturing
41.0399	Physical Science Technologies/Technicians, Other.	Engineering technicians, except drafters	Y	N	Manufacturing
41.9999	Science Technologies/Technicians, Other.	Engineering technicians, except drafters	Y	N	Manufacturing
47.0101	Electrical/Electronics Equipment Installation and Repair, General.	Electric motor, power tool, and related repairers	Y	N	Manufacturing
47.0102	Business Machine Repair.	Computer, automated teller, and office machine repairers	Y	N	Manufacturing
47.0104	Computer Installation and Repair Technology/Technician.	Computer, automated teller, and office machine repairers	Y	N	Manufacturing
47.0105	Industrial Electronics Technology/Technician.	Electrical and electronics repairers, transportation equipment, industrial and utility	Y	N	Manufacturing
47.0106	Appliance Installation and Repair Technology/Technician.	Home appliance repairers	Y	N	Manufacturing
47.0199	Electrical/Electronics Maintenance and Repair Technology, Other.	Electrical and electronics repairers, transportation equipment, industrial and utility	Y	N	Manufacturing
47.0303	Industrial Mechanics and Maintenance Technology.	Control and valve installers and repairers	Y	N	Manufacturing
47.0402	Gunsmithing/Gunsmith.	Other installation, maintenance, and repair workers	Y	N	Manufacturing
47.0403	Locksmithing and Safe Repair.	Locksmiths and safe repairers	Y	N	Manufacturing
47.0404	Musical Instrument Fabrication and Repair.	Precision instrument and equipment repairers	Y	N	Manufacturing
47.0408	Watchmaking and Jewelmaking.	Precision instrument and equipment repairers	Y	N	Manufacturing



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CIP 6 2020	CIP Title 2020	Example of an Associated Occupation for which the Program Prepares Students	Female	Male	Recommended Cluster Name_2020
47.0409	Parts and Warehousing Operations and Maintenance Technology/Technician.	Other installation, maintenance, and repair workers	Y	N	Manufacturing
47.0499	Precision Systems Maintenance and Repair Technologies, Other.	Precision instrument and equipment repairers	Y	N	Manufacturing
48.0303	Upholstery/Upholsterer.	Upholsterers	Y	N	Manufacturing
48.0304	Shoe, Boot and Leather Repair.	Shoe and leather workers and repairers	Y	N	Manufacturing
48.0501	Machine Tool Technology/Machinist.	Machinists	Y	N	Manufacturing
48.0503	Machine Shop Technology/Assistant.	Machinists	Y	N	Manufacturing
48.0506	Sheet Metal Technology/Sheetworking.	Sheet metal workers	Y	N	Manufacturing
48.0507	Tool and Die Technology/Technician.	Tool and die makers	Y	N	Manufacturing
48.0508	Welding Technology/Welder.	Welding, soldering, and brazing workers	Y	N	Manufacturing
48.0510	Computer Numerically Controlled (CNC) Machinist Technology/CNC Machinist.	Computer control programmers and operators	Y	N	Manufacturing
48.0511	Metal Fabricator.	Structural metal fabricators and fitters	Y	N	Manufacturing
48.0599	Precision Metal Working, Other.	Metalworkers and plastic workers, all other	Y	N	Manufacturing
48.0701	Woodworking, General.	Woodworking machine setters, operators, and tenders, except sawing	Y	N	Manufacturing
48.0702	Furniture Design and Manufacturing.	Woodworkers, all other	Y	N	Manufacturing
48.0703	Cabinetmaking and Millwork.	Woodworkers, all other	Y	N	Manufacturing
48.0704	Wooden Boatbuilding Technology/Technician.	Woodworkers, all other	Y	N	Manufacturing
48.0799	Woodworking, Other.	Woodworkers, all other	Y	N	Manufacturing
52.1804	Selling Skills and Sales Operations.	Parts salespersons	Y	N	Marketing
52.1905	Tourism and Travel Services Marketing Operations.	Travel agents	N	Y	Marketing
52.1907	Vehicle and Vehicle Parts and Accessories Marketing Operations.	Parts salespersons	Y	N	Marketing
14.0101	Engineering, General.	Engineers, all other	Y	N	Science, Technology, Engineering & Mathematics
14.0103	Applied Engineering.	Engineers, all other	Y	N	Science, Technology, Engineering & Mathematics
14.0201	Aerospace, Aeronautical and Astronautical/Space Engineering.	Aerospace engineers	Y	N	Science, Technology, Engineering & Mathematics
14.0202	Astronautical Engineering.	Aerospace engineers	Y	N	Science, Technology, Engineering & Mathematics
14.0299	Aerospace, Aeronautical, and Astronautical/Space Engineering, Other.	Avionics technicians	Y	N	Science, Technology, Engineering & Mathematics
14.0301	Agricultural Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.0401	Architectural Engineering.	Engineers, all other	Y	N	Science, Technology, Engineering & Mathematics
14.0501	Bioengineering and Biomedical Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.0601	Ceramic Sciences and Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.0701	Chemical Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.0702	Chemical and Biomolecular Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.0799	Chemical Engineering, Other.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.0801	Civil Engineering, General.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.0802	Geotechnical and Geoenvironmental Engineering.	Petroleum engineers	Y	N	Science, Technology, Engineering & Mathematics
14.0803	Structural Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.0804	Transportation and Highway Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics



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CIP 6 2020	CIP Title 2020	Example of an Associated Occupation for which the Program Prepares Students	Female	Male	Recommended Cluster Name_2020
14.0805	Water Resources Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.0899	Civil Engineering, Other.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.0902	Computer Hardware Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.1001	Electrical and Electronics Engineering.	Electrical and electronic engineers	Y	N	Science, Technology, Engineering & Mathematics
14.1003	Laser and Optical Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.1004	Telecommunications Engineering.	Electrical and electronic engineers	Y	N	Science, Technology, Engineering & Mathematics
14.1099	Electrical, Electronics and Communications Engineering, Other.	Electrical and electronic engineers	Y	N	Science, Technology, Engineering & Mathematics
14.1101	Engineering Mechanics.	Mechanical engineers	Y	N	Science, Technology, Engineering & Mathematics
14.1201	Engineering Physics/Applied Physics.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.1301	Engineering Science.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.1401	Environmental/Environmental Health Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.1801	Materials Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.1901	Mechanical Engineering.	Mechanical engineers	Y	N	Science, Technology, Engineering & Mathematics
14.2001	Metallurgical Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.2101	Mining and Mineral Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.2201	Naval Architecture and Marine Engineering.	Marine engineers and naval architects	Y	N	Science, Technology, Engineering & Mathematics
14.2301	Nuclear Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.2401	Ocean Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.2501	Petroleum Engineering.	Petroleum engineers	Y	N	Science, Technology, Engineering & Mathematics
14.2701	Systems Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.2801	Textile Sciences and Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.3201	Polymer/Plastics Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.3301	Construction Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.3501	Industrial Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.3601	Manufacturing Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.3801	Surveying Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.3901	Geological/Geophysical Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.4001	Paper Science and Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.4101	Electromechanical Engineering.	Mechanical engineers	Y	N	Science, Technology, Engineering & Mathematics
14.4201	Mechatronics, Robotics, and Automation Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.4301	Biochemical Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.4401	Engineering Chemistry.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.4501	Biological/Biosystems Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.4701	Electrical and Computer Engineering.	Electrical and electronic engineers	Y	N	Science, Technology, Engineering & Mathematics
14.4800	Energy Systems Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.4801	Energy Systems Engineering, General.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.4802	Power Plant Engineering.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.4899	Energy Systems Engineering, Other.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
14.9999	Engineering, Other.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics



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CIP 6 2020	CIP Title 2020	Example of an Associated Occupation for which the Program Prepares Students	Female	Male	Recommended Cluster Name_2020
15.0000	Engineering Technology, General.	Engineering technicians, except drafters	Y	N	Science, Technology, Engineering & Mathematics
15.0001	Applied Engineering Technologies/Technicians.	Engineering technicians, except drafters	Y	N	Science, Technology, Engineering & Mathematics
15.0306	Integrated Circuit Design.	Engineering technicians, except drafters	Y	N	Science, Technology, Engineering & Mathematics
15.0307	Audio Engineering Technology/Technician.	Broadcast and sound engineering technicians and radio operators	Y	N	Science, Technology, Engineering & Mathematics
15.0406	Automation Engineer Technology/Technician.	Engineering technicians, except drafters	Y	N	Science, Technology, Engineering & Mathematics
15.0407	Mechatronics, Robotics, and Automation Engineering Technology/Technician.	Engineering technicians, except drafters	Y	N	Science, Technology, Engineering & Mathematics
15.0614	Welding Engineering Technology/Technician.	Welding, soldering, and brazing workers	Y	N	Science, Technology, Engineering & Mathematics
15.0615	Chemical Engineering Technology/Technician.	Engineering technicians, except drafters	Y	N	Science, Technology, Engineering & Mathematics
15.0616	Semiconductor Manufacturing Technology.	Engineering technicians, except drafters	Y	N	Science, Technology, Engineering & Mathematics
15.0617	Composite Materials Technology/Technician.	Engineering technicians, except drafters	Y	N	Science, Technology, Engineering & Mathematics
15.0704	Hazardous Materials Information Systems Technology/Technician.	Engineering technicians, except drafters	Y	N	Science, Technology, Engineering & Mathematics
15.0705	Process Safety Technology/Technician.	Engineering technicians, except drafters	Y	N	Science, Technology, Engineering & Mathematics
15.0806	Marine Engineering Technology/Technician.	Small engine mechanics	Y	N	Science, Technology, Engineering & Mathematics
15.0807	Motorsports Engineering Technology/Technician.	Automotive service technicians and mechanics	Y	N	Science, Technology, Engineering & Mathematics
15.1102	Surveying Technology/Surveying.	Surveyors, cartographers, and photogrammetrists	Y	N	Science, Technology, Engineering & Mathematics
15.1307	3-D Modeling and Design Technology/Technician.	Drafters	Y	N	Science, Technology, Engineering & Mathematics
15.1501	Engineering/Industrial Management.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
15.1502	Engineering Design.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
15.1503	Packaging Science.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
15.1601	Nanotechnology.	Engineers, all other	Y	N	Science, Technology, Engineering & Mathematics
15.1701	Energy Systems Technology/Technician.	Engineering technicians, except drafters	Y	N	Science, Technology, Engineering & Mathematics
15.1702	Power Plant Technology/Technician.	Power plant operators, distributors, and dispatchers	Y	N	Science, Technology, Engineering & Mathematics
15.1703	Solar Energy Technology/Technician.	Solar photovoltaic installers	Y	N	Science, Technology, Engineering & Mathematics
15.1704	Wind Energy Technology/Technician.	Wind turbine service technicians	Y	N	Science, Technology, Engineering & Mathematics
15.1705	Hydroelectric Energy Technology/Technician.	Power plant operators, distributors, and dispatchers	Y	N	Science, Technology, Engineering & Mathematics
15.1706	Geothermal Energy Technology/Technician.	Engineering technicians, except drafters	Y	N	Science, Technology, Engineering & Mathematics
15.1799	Energy Systems Technologies/Technicians, Other.	Engineering technicians, except drafters	Y	N	Science, Technology, Engineering & Mathematics
26.0708	Animal Behavior and Ethology.	Biological technicians	Y	N	Science, Technology, Engineering & Mathematics
26.0709	Wildlife Biology.	Biological technicians	Y	N	Science, Technology, Engineering & Mathematics
26.1006	Environmental Toxicology.	Engineering technicians, except drafters	Y	N	Science, Technology, Engineering & Mathematics
30.0801	Mathematics and Computer Science.	Software developers, applications and systems software	Y	N	Science, Technology, Engineering & Mathematics
30.1701	Behavioral Sciences.	Psychologists	N	Y	Science, Technology, Engineering & Mathematics
30.1901	Nutrition Sciences.	Dietitians and nutritionists	N	Y	Science, Technology, Engineering & Mathematics
30.3001	Computational Science.	Computer programmers	Y	N	Science, Technology, Engineering & Mathematics
30.3101	Human Computer Interaction.	Software developers, applications and systems software	Y	N	Science, Technology, Engineering & Mathematics



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CIP 6 2020	CIP Title 2020	Example of an Associated Occupation for which the Program Prepares Students	Female	Male	Recommended Cluster Name_2020
30.3401	Anthrozoology.	Farmers, ranchers, and other agricultural managers	Y	N	Science, Technology, Engineering & Mathematics
30.3401	Anthrozoology.	Nonfarm animal caretakers	N	Y	Science, Technology, Engineering & Mathematics
30.3901	Economics and Computer Science.	Software developers, applications and systems software	Y	N	Science, Technology, Engineering & Mathematics
30.4801	Linguistics and Computer Science.	Software developers, applications and systems software	Y	N	Science, Technology, Engineering & Mathematics
30.5301	Thanatology.	Social workers	N	Y	Science, Technology, Engineering & Mathematics
30.7001	Data Science, General.	Software developers, applications and systems software	Y	N	Science, Technology, Engineering & Mathematics
30.7101	Data Analytics, General.	Computer programmers	Y	N	Science, Technology, Engineering & Mathematics
30.7103	Data Visualization.	Computer programmers	Y	N	Science, Technology, Engineering & Mathematics
30.7199	Data Analytics, Other.	Computer programmers	Y	N	Science, Technology, Engineering & Mathematics
40.0512	Cheminformatics/Chemistry Informatics.	Computer occupations, all other	Y	N	Science, Technology, Engineering & Mathematics
40.1001	Materials Science.	Architectural and engineering managers	Y	N	Science, Technology, Engineering & Mathematics
40.1101	Physics and Astronomy.	Astronomers and physicists	Y	N	Science, Technology, Engineering & Mathematics
45.0199	Social Sciences, Other.	Elementary and middle school teachers	N	Y	Science, Technology, Engineering & Mathematics
45.0401	Criminology.	Psychologists	N	Y	Science, Technology, Engineering & Mathematics
45.0701	Geography.	Surveying and mapping technicians	Y	N	Science, Technology, Engineering & Mathematics
45.0702	Geographic Information Science and Cartography.	Surveying and mapping technicians	Y	N	Science, Technology, Engineering & Mathematics
15.0803	Automotive Engineering Technology/Technician.	Automotive service technicians and mechanics	Y	N	Transportation, Distribution & Logistics
47.0000	Mechanics and Repairers, General.	Other installation, maintenance, and repair workers	Y	N	Transportation, Distribution & Logistics
47.0302	Heavy Equipment Maintenance Technology/Technician.	Heavy vehicle and mobile equipment service technicians and mechanics	Y	N	Transportation, Distribution & Logistics
47.0600	Vehicle Maintenance and Repair Technologies, General.	Automotive service technicians and mechanics	Y	N	Transportation, Distribution & Logistics
47.0603	Autobody/Collision and Repair Technology/Technician.	Automotive glass installers and repairers	Y	N	Transportation, Distribution & Logistics
47.0604	Automobile/Automotive Mechanics Technology/Technician.	Electronic equipment installers and repairers, motor vehicles	Y	N	Transportation, Distribution & Logistics
47.0605	Diesel Mechanics Technology/Technician.	Bus and truck mechanics and diesel engine specialists	Y	N	Transportation, Distribution & Logistics
47.0606	Small Engine Mechanics and Repair Technology/Technician.	Small engine mechanics	Y	N	Transportation, Distribution & Logistics
47.0607	Airframe Mechanics and Aircraft Maintenance Technology/Technician.	Aircraft mechanics and service technicians	Y	N	Transportation, Distribution & Logistics
47.0608	Aircraft Powerplant Technology/Technician.	Aircraft mechanics and service technicians	Y	N	Transportation, Distribution & Logistics
47.0609	Avionics Maintenance Technology/Technician.	Avionics technicians	Y	N	Transportation, Distribution & Logistics
47.0610	Bicycle Mechanics and Repair Technology/Technician.	Miscellaneous vehicle and mobile equipment mechanics, installers, and repairers	Y	N	Transportation, Distribution & Logistics
47.0611	Motorcycle Maintenance and Repair Technology/Technician.	Small engine mechanics	Y	N	Transportation, Distribution & Logistics
47.0612	Vehicle Emissions Inspection and Maintenance Technology/Technician.	Automotive service technicians and mechanics	Y	N	Transportation, Distribution & Logistics
47.0613	Medium/Heavy Vehicle and Truck Technology/Technician.	Bus and truck mechanics and diesel engine specialists	Y	N	Transportation, Distribution & Logistics
47.0614	Alternative Fuel Vehicle Technology/Technician.	Automotive service technicians and mechanics	Y	N	Transportation, Distribution & Logistics



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47.0615	Engine Machinist.	Engine and other machine assemblers	Y	N	Transportation, Distribution & Logistics
47.0616	Marine Maintenance/Fitter and Ship Repair Technology/Technician.	Small engine mechanics	Y	N	Transportation, Distribution & Logistics
47.0617	High Performance and Custom Engine Technician/Mechanic.	Automotive service technicians and mechanics	Y	N	Transportation, Distribution & Logistics
47.0618	Recreation Vehicle (RV) Service Technician.	Miscellaneous vehicle and mobile equipment mechanics, installers, and repairers	Y	N	Transportation, Distribution & Logistics
47.0701	Energy Systems Installation and Repair Technology/Technician.	Wind turbine service technicians	Y	N	Transportation, Distribution & Logistics
47.0703	Solar Energy System Installation and Repair Technology/Technician.	Solar photovoltaic installers	Y	N	Transportation, Distribution & Logistics
47.0704	Wind Energy System Installation and Repair Technology/Technician.	Wind turbine service technicians	Y	N	Transportation, Distribution & Logistics
47.0705	Hydroelectric Energy System Installation and Repair Technology/Technician.	Industrial and refractory machinery mechanics	Y	N	Transportation, Distribution & Logistics
47.0706	Geothermal Energy System Installation and Repair Technology/Technician.	Industrial and refractory machinery mechanics	Y	N	Transportation, Distribution & Logistics
47.0799	Energy Systems Installation and Repair Technologies/Technician, Other.	Other installation, maintenance, and repair workers	Y	N	Transportation, Distribution & Logistics
49.0101	Aeronautics/Aviation/Aerospace Science and Technology, General.	Transportation, storage, and distribution managers	Y	N	Transportation, Distribution & Logistics
49.0102	Airline/Commercial/Professional Pilot and Flight Crew.	Aircraft pilots and flight engineers	Y	N	Transportation, Distribution & Logistics
49.0104	Aviation/Airway Management and Operations.	Transportation, storage, and distribution managers	Y	N	Transportation, Distribution & Logistics
49.0105	Air Traffic Controller.	Air traffic controllers and airfield operations specialists	Y	N	Transportation, Distribution & Logistics
49.0106	Airline Flight Attendant.	Flight Attendants	N	Y	Transportation, Distribution & Logistics
49.0108	Flight Instructor.	Aircraft pilots and flight engineers	Y	N	Transportation, Distribution & Logistics
49.0202	Construction/Heavy Equipment/Earthmoving Equipment Operation.	Paving, surfacing, and tamping equipment operators	Y	N	Transportation, Distribution & Logistics
49.0205	Truck and Bus Driver/Commercial Vehicle Operator and Instructor.	Driver/sales workers and truck drivers	Y	N	Transportation, Distribution & Logistics
49.0206	Mobile Crane Operation/Operator.	Operating engineers and other construction equipment operators	Y	N	Transportation, Distribution & Logistics
49.0209	Forklift Operation/Operator.	Industrial truck and tractor operators	Y	N	Transportation, Distribution & Logistics
49.0207	Flagging and Traffic Control.	Highway maintenance workers	Y	N	Transportation, Distribution & Logistics
49.0208	Railroad and Railway Transportation.	Locomotive engineers and operators	Y	N	Transportation, Distribution & Logistics
49.0304	Diver, Professional and Instructor.	Commercial divers	Y	N	Transportation, Distribution & Logistics
49.0309	Marine Science/Merchant Marine Officer.	Ship and boat captains and operators	Y	N	Transportation, Distribution & Logistics
49.0399	Marine Transportation, Other.	Ship and boat captains and operators	Y	N	Transportation, Distribution & Logistics
52.0203	Logistics, Materials, and Supply Chain Management.	Transportation, storage, and distribution managers	Y	N	Transportation, Distribution & Logistics
52.0209	Transportation/Mobility Management.	Transportation, storage, and distribution managers	Y	N	Transportation, Distribution & Logistics