

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
BIO	Biology	Associate in Science Degree for Transfer	11-9121.00	Natural Sciences Managers
			15-2041.01	Biostatisticians
			19-1011.00	Animal Scientists
			19-1013.00	Soil and Plant Scientists
			19-1029.04	Biologists
			19-1021.00	Biochemists and Biophysicists
			19-1022.00	Microbiologists
			19-1023.00	Zoologists and Wildlife Biologists
			19-1029.01	Bioinformatics Scientists
			19-1029.02	Molecular and Cellular Biologists
			19-1029.03	Geneticists
			19-1041.00	Epidemiologists
			19-1042.00	Medical Scientists, Except Epidemiologists
			19-4021.00	Biological Technicians
			19-4042.00	Environmental Science and Protection Technicians, Including Health
			25-1042.00	Biological Science Teachers, Postsecondary
			25-2031.00	Secondary School Teachers, Except Special and Career/Technical Education
			29-1229.01	Allergists and Immunologists
			29-1211.00	Anesthesiologists
			13-1041.06	Coroners
			29-1021.00	Dentists, General
			29-1213.00	Dermatologists
			29-1215.00	Family Medicine Physicians
			19-2041.03	Industrial Ecologists
			29-1216.00	General Internal Medicine Physicians
			29-1229.03	Urologists
			29-1131.00	Veterinarians
			29-1242.00	Orthopedic Surgeons, Except Pediatric
			29-1229.06	Sports Medicine Physicians
			29-1217.00	Neurologists
			29-1224.00	Radiologists
			29-1218.00	Obstetricians and Gynecologists
			29-1241.00	Ophthalmologists, Except Pediatric
			29-1041.00	Optometrists
			29-1022.00	Oral and Maxillofacial Surgeons
			29-1023.00	Orthodontists
			29-1222.00	Physicians, Pathologists
			29-1221.00	Pediatricians, General
			29-1081.00	Podiatrists
			29-1024.00	Prosthodontists
BIO	Biology	Associate of Arts Degree	11-9121.00	Natural Sciences Managers
			15-2041.01	Biostatisticians
			19-1011.00	Animal Scientists
			19-1013.00	Soil and Plant Scientists

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			19-1029.04	Biologists
			19-1021.00	Biochemists and Biophysicists
			19-1022.00	Microbiologists
			19-1023.00	Zoologists and Wildlife Biologists
			19-1029.01	Bioinformatics Scientists
			19-1029.02	Molecular and Cellular Biologists
			19-1029.03	Geneticists
			19-1041.00	Epidemiologists
			19-1042.00	Medical Scientists, Except Epidemiologists
			19-4021.00	Biological Technicians
			19-4042.00	Environmental Science and Protection Technicians, Including Health
			25-1042.00	Biological Science Teachers, Postsecondary
			25-2031.00	Secondary School Teachers, Except Special and Career/Technical Education
			29-1229.01	Allergists and Immunologists
			29-1211.00	Anesthesiologists
BIO	Biology UC Pathway	Associate of Science Degree	11-9121.00	Natural Sciences Managers
			15-2041.01	Biostatisticians
			19-1011.00	Animal Scientists
			19-1013.00	Soil and Plant Scientists
			19-1029.04	Biologists
			19-1021.00	Biochemists and Biophysicists
			19-1022.00	Microbiologists
			19-1023.00	Zoologists and Wildlife Biologists
			19-1029.01	Bioinformatics Scientists
			19-1029.02	Molecular and Cellular Biologists
			19-1029.03	Geneticists
			19-1041.00	Epidemiologists
			19-1042.00	Medical Scientists, Except Epidemiologists
			19-4021.00	Biological Technicians
			19-4042.00	Environmental Science and Protection Technicians, Including Health
			25-1042.00	Biological Science Teachers, Postsecondary
			25-2031.00	Secondary School Teachers, Except Special and Career/Technical Education
			29-1229.01	Allergists and Immunologists
			29-1211.00	Anesthesiologists
			13-1041.06	Coroners
			29-1021.00	Dentists, General
			29-1213.00	Dermatologists
			29-1215.00	Family Medicine Physicians
			19-2041.03	Industrial Ecologists
			29-1216.00	General Internal Medicine Physicians
			29-1229.03	Urologists
			29-1131.00	Veterinarians
			29-1242.00	Orthopedic Surgeons, Except Pediatric
			29-1229.06	Sports Medicine Physicians

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			29-1217.00	Neurologists
			29-1224.00	Radiologists
			29-1218.00	Obstetricians and Gynecologists
			29-1241.00	Ophthalmologists, Except Pediatric
			29-1041.00	Optometrists
			29-1022.00	Oral and Maxillofacial Surgeons
			29-1023.00	Orthodontists
			29-1222.00	Physicians, Pathologists
			29-1221.00	Pediatricians, General
			29-1051.00	Pharmacists
			29-1081.00	Podiatrists
			29-1024.00	Prosthodontists
BIO	Biology UC Pathway	Certificate of Achievement	11-9121.00	Natural Sciences Managers
			15-2041.01	Biostatisticians
			19-1011.00	Animal Scientists
			19-1013.00	Soil and Plant Scientists
			19-1029.04	Biologists
			19-1021.00	Biochemists and Biophysicists
			19-1022.00	Microbiologists
			19-1023.00	Zoologists and Wildlife Biologists
			19-1029.01	Bioinformatics Scientists
			19-1029.02	Molecular and Cellular Biologists
			19-1029.03	Geneticists
			19-1041.00	Epidemiologists
			19-1042.00	Medical Scientists, Except Epidemiologists
			19-4021.00	Biological Technicians
			19-4042.00	Environmental Science and Protection Technicians, Including Health
			25-1042.00	Biological Science Teachers, Postsecondary
			25-2031.00	Secondary School Teachers, Except Special and Career/Technical Education
			29-1229.01	Allergists and Immunologists
			29-1211.00	Anesthesiologists
BIO	Biology: Allied Health	Associate of Arts Degree	11-9111.00	Medical and Health Services Managers
			15-1211.01	Health Informatics Specialists
			21-1015.00	Rehabilitation Counselors
			29-1031.00	Dietitians and Nutritionists
			29-1071.00	Physician Assistants
			29-1071.01	Anesthesiologist Assistants
			29-1122.00	Occupational Therapists
			29-1122.01	Low Vision Therapists, Orientation and Mobility Specialists, and Vision Rehabilitation Therapists
			29-1123.00	Physical Therapists
			29-1124.00	Radiation Therapists
			29-1126.00	Respiratory Therapists
			29-1127.00	Speech-Language Pathologists

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			29-1181.00	Audiologists
			29-1299.02	Orthoptists
			29-2011.00	Medical and Clinical Laboratory Technologists
			29-2011.02	Cytotechnologists
			29-2012.00	Medical and Clinical Laboratory Technicians
			29-1292.00	Dental Hygienists
			29-2031.00	Cardiovascular Technologists and Technicians
			29-2032.00	Diagnostic Medical Sonographers
			29-2033.00	Nuclear Medicine Technologists
			29-2034.00	Radiologic Technologists and Technicians
			29-2042.00	Emergency Medical Technicians
			29-2051.00	Dietetic Technicians
			29-2055.00	Surgical Technologists
			29-2057.00	Ophthalmic Medical Technicians
			29-2072.00	Medical Records Specialists
			29-2081.00	Opticians, Dispensing
			29-2091.00	Orthotists and Prosthetists
			29-2099.01	Neurodiagnostic Technologists
			29-2099.05	Ophthalmic Medical Technologists
			29-9093.00	Surgical Assistants
			29-9091.00	Athletic Trainers
			31-1131.00	Nursing Assistants
			31-2011.00	Occupational Therapy Assistants
			31-2012.00	Occupational Therapy Aides
			31-2021.00	Physical Therapist Assistants
			31-2022.00	Physical Therapist Aides
			31-9091.00	Dental Assistants
			31-9092.00	Medical Assistants
			31-9093.00	Medical Equipment Preparers
			31-9094.00	Medical Transcriptionists
			31-9097.00	Phlebotomists
			31-9099.01	Speech-Language Pathology Assistants
			43-6013.00	Medical Secretaries and Administrative Assistants
			51-9081.00	Dental Laboratory Technicians
			51-9082.00	Medical Appliance Technicians
			29-1141.01	Acute Care Nurses
			29-1141.02	Advanced Practice Psychiatric Nurses
			29-1229.01	Allergists and Immunologists
			29-1211.00	Anesthesiologists
			29-1141.04	Clinical Nurse Specialists
			29-1141.03	Critical Care Nurses
			25-1071.00	Health Specialties Teachers, Postsecondary
			29-9099.01	Midwives
			29-1151.00	Nurse Anesthetists
			29-1161.00	Nurse Midwives

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			29-1171.00	Nurse Practitioners
			25-1072.00	Nursing Instructors and Teachers, Postsecondary
			29-1141.00	Registered Nurses
BIO	Computational Biology	Associate of Arts Degree	11-9121.00	Natural Sciences Managers
			11-9121.01	Clinical Research Coordinators
			11-9121.02	Water Resource Specialists
			15-1255.00	Web and Digital Interface Designers
			15-1299.08	Computer Systems Engineers/Architects
			15-1299.01	Web Administrators
			15-1299.02	Geographic Information Systems Technologists and Technicians
			15-1243.01	Data Warehousing Specialists
			15-2051.01	Business Intelligence Analysts
			15-1299.09	Information Technology Project Managers
			13-1161.01	Search Marketing Strategists
			15-1255.01	Video Game Designers
			15-1299.03	Document Management Specialists
			19-1029.01	Bioinformatics Scientists
			19-1029.02	Molecular and Cellular Biologists
			19-1029.03	Geneticists
BIO	Computational Biology	Certificate of Achievement	11-9121.00	Natural Sciences Managers
			11-9121.01	Clinical Research Coordinators
			11-9121.02	Water Resource Specialists
			15-1255.00	Web and Digital Interface Designers
			15-1299.08	Computer Systems Engineers/Architects
			15-1299.01	Web Administrators
			15-1299.02	Geographic Information Systems Technologists and Technicians
			15-1243.01	Data Warehousing Specialists
			15-2051.01	Business Intelligence Analysts
			15-1299.09	Information Technology Project Managers
			13-1161.01	Search Marketing Strategists
			15-1255.01	Video Game Designers
			15-1299.03	Document Management Specialists
			19-1029.01	Bioinformatics Scientists
			15-2099.01	Bioinformatics Technicians
			19-1029.02	Molecular and Cellular Biologists
			19-1029.03	Geneticists
CHEM	Chemistry	Associate of Science Degree	11-9121.00	Natural Sciences Managers
			11-9121.01	Clinical Research Coordinators
			17-2041.00	Chemical Engineers
			17-2121.00	Marine Engineers and Naval Architects
			19-1012.00	Food Scientists and Technologists
			19-1013.00	Soil and Plant Scientists

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			19-1021.00	Biochemists and Biophysicists
			19-2031.00	Chemists
			19-2032.00	Materials Scientists
			19-2041.00	Environmental Scientists and Specialists, Including Health
			19-4031.00	Chemical Technicians
			19-4043.00	Geological Technicians, Except Hydrologic Technicians
			19-4092.00	Forensic Science Technicians
			25-1052.00	Chemistry Teachers, Postsecondary
			25-2031.00	Secondary School Teachers, Except Special and Career/Technical Education
			25-4013.00	Museum Technicians and Conservators
CHEM	Chemistry Education	Associate of Science Degree	25-2031.00	Secondary School Teachers, Except Special and Career/Technical Education
CIS	Administrative Assistant	Associate of Arts Degree	43-4071.00	File Clerks
			43-4171.00	Receptionists and Information Clerks
			43-6011.00	Executive Secretaries and Executive Administrative Assistants
			43-6014.00	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive
			43-9021.00	Data Entry Keyers
			43-9022.00	Word Processors and Typists
			43-9041.00	Insurance Claims and Policy Processing Clerks
			43-9061.00	Office Clerks, General
CIS	Administrative Assistant	Certificate of Achievement	43-4071.00	File Clerks
			43-4171.00	Receptionists and Information Clerks
			43-6011.00	Executive Secretaries and Executive Administrative Assistants
			43-6014.00	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive
			43-9021.00	Data Entry Keyers
			43-9022.00	Word Processors and Typists
			43-9061.00	Office Clerks, General
			43-4031.00	Court, Municipal, and License Clerks
			43-9041.00	Insurance Claims and Policy Processing Clerks
CIS	Administrative Medical Assistant	Certificate of Achievement	29-2072.00	Medical Records Specialists
			31-9094.00	Medical Transcriptionists
			43-1011.00	First-Line Supervisors of Office and Administrative Support Workers
			39-1013.00	First-Line Supervisors of Gambling Services Workers
			43-4071.00	File Clerks
			43-4171.00	Receptionists and Information Clerks
			43-6011.00	Executive Secretaries and Executive Administrative Assistants
			43-6013.00	Medical Secretaries and Administrative Assistants
			43-9021.00	Data Entry Keyers
			43-9041.00	Insurance Claims and Policy Processing Clerks
			43-9061.00	Office Clerks, General
CIS	Cloud Computing	Certificate of Achievement	15-1211.00	Computer Systems Analysts

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			15-1232.00	Computer User Support Specialists
			17-3023.00	Electrical and Electronic Engineering Technologists and Technicians
			43-4041.00	Credit Authorizers, Checkers, and Clerks
			49-2011.00	Computer, Automated Teller, and Office Machine Repairers
			49-2022.00	Telecommunications Equipment Installers and Repairers, Except Line Installers
			49-2097.00	Audiovisual Equipment Installers and Repairers
CIS	Computer Applications Software	Certificate of Achievement	15-1299.03	Document Management Specialists
			43-4071.00	File Clerks
			43-4041.00	Credit Authorizers, Checkers, and Clerks
			43-9021.00	Data Entry Keyers
			43-9022.00	Word Processors and Typists
			43-9061.00	Office Clerks, General
CIS	Computer Information Systems	Associate of Arts Degree	11-3021.00	Computer and Information Systems Managers
			15-1221.00	Computer and Information Research Scientists
			15-1211.00	Computer Systems Analysts
			15-1211.01	Health Informatics Specialists
			15-1212.00	Information Security Analysts
			15-1251.00	Computer Programmers
			15-1252.00	Software Developers
			15-1253.00	Software Quality Assurance Analysts and Testers
			15-1254.00	Web Developers
			15-1242.00	Database Administrators
			15-1244.00	Network and Computer Systems Administrators
			15-1241.00	Computer Network Architects
			15-1232.00	Computer User Support Specialists
			15-1231.00	Computer Network Support Specialists
			15-1255.00	Web and Digital Interface Designers
			15-1299.08	Computer Systems Engineers/Architects
			15-1299.01	Web Administrators
			15-1243.01	Data Warehousing Specialists
			15-2051.01	Business Intelligence Analysts
			15-1299.09	Information Technology Project Managers
			15-1299.03	Document Management Specialists
			43-4041.00	Credit Authorizers, Checkers, and Clerks
			43-9021.00	Data Entry Keyers
CIS	Computer Information Technologist	Associate of Science Degree	11-3021.00	Computer and Information Systems Managers
			15-1211.00	Computer Systems Analysts
			15-1211.01	Health Informatics Specialists
			15-1212.00	Information Security Analysts
			15-1251.00	Computer Programmers
			15-1242.00	Database Administrators
			15-1244.00	Network and Computer Systems Administrators

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			15-1241.00	Computer Network Architects
			15-1232.00	Computer User Support Specialists
			15-1231.00	Computer Network Support Specialists
			15-1299.08	Computer Systems Engineers/Architects
			15-1299.01	Web Administrators
			15-1243.01	Data Warehousing Specialists
			15-1299.09	Information Technology Project Managers
			15-1299.03	Document Management Specialists
			43-4041.00	Credit Authorizers, Checkers, and Clerks
			43-9021.00	Data Entry Keyers
CIS	Data Analytics	Certificate of Achievement	15-1242.00	Database Administrators
			15-1299.01	Web Administrators
			15-1299.02	Geographic Information Systems Technologists and Technicians
			15-1243.01	Data Warehousing Specialists
			15-2051.01	Business Intelligence Analysts
			15-1299.03	Document Management Specialists
			43-4041.00	Credit Authorizers, Checkers, and Clerks
			43-9021.00	Data Entry Keyers
CIS	Project Management	Certificate of Achievement	11-1021.00	General and Operations Managers
			11-2021.00	Marketing Managers
			11-2022.00	Sales Managers
			11-2032.00	Public Relations Managers
			11-3012.00	Administrative Services Managers
			11-3031.00	Financial Managers
			11-3121.00	Human Resources Managers
			13-1081.00	Logisticians
			13-1081.02	Logistics Analysts
			13-1111.00	Management Analysts
			13-1199.04	Business Continuity Planners
			13-2023.00	Appraisers and Assessors of Real Estate
			15-1299.03	Document Management Specialists
			15-1299.09	Information Technology Project Managers
			15-2051.01	Business Intelligence Analysts
			43-9071.00	Office Machine Operators, Except Computer
CIS	Web Development	Certificate of Achievement	15-1251.00	Computer Programmers
			15-1254.00	Web Developers
			15-1299.01	Web Administrators
			27-1014.00	Special Effects Artists and Animators
			27-1024.00	Graphic Designers
CNT	Cybersecurity and Network Administration	Associate of Science Degree	15-1212.00	Information Security Analysts
			15-1244.00	Network and Computer Systems Administrators

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			15-1241.00	Computer Network Architects
			15-1241.01	Telecommunications Engineering Specialists
			15-1231.00	Computer Network Support Specialists
			15-1299.09	Information Technology Project Managers
			49-2022.00	Telecommunications Equipment Installers and Repairers, Except Line Installers
CNT	Cybersecurity Professional	Certificate of Achievement	13-1199.07	Security Management Specialists
			11-3013.01	Security Managers
			19-4092.00	Forensic Science Technicians
			11-9161.00	Emergency Management Directors
			15-1212.00	Information Security Analysts
CNT	IT Support Professional	Certificate of Achievement	15-1232.00	Computer User Support Specialists
			15-1231.00	Computer Network Support Specialists
			49-2011.00	Computer, Automated Teller, and Office Machine Repairers
CNT	Network Support Professional	Certificate of Achievement	15-1299.09	Information Technology Project Managers
			15-1244.00	Network and Computer Systems Administrators
			15-1241.01	Telecommunications Engineering Specialists
			15-1241.00	Computer Network Architects
			15-1231.00	Computer Network Support Specialists
			49-2022.00	Telecommunications Equipment Installers and Repairers, Except Line Installers
			15-1212.00	Information Security Analysts
CS	Artificial Intelligence	Certificate of Achievement	11-3021.00	Computer and Information Systems Managers
			15-1211.00	Computer Systems Analysts
			15-1251.00	Computer Programmers
			15-1252.00	Software Developers
			15-1253.00	Software Quality Assurance Analysts and Testers
			17-2199.08	Robotics Engineers
			17-3024.01	Robotics Technicians
CS	Computer Programming	Certificate of Achievement	15-1254.00	Web Developers
			15-1299.01	Web Administrators
			15-1253.00	Software Quality Assurance Analysts and Testers
			15-1252.00	Software Developers
			15-1211.00	Computer Systems Analysts
			15-1251.00	Computer Programmers
			15-1255.00	Web and Digital Interface Designers
			15-1299.08	Computer Systems Engineers/Architects
			15-1221.00	Computer and Information Research Scientists
			11-3021.00	Computer and Information Systems Managers
CS	Computer Programming for the Web	Certificate of Achievement	15-1254.00	Web Developers
			15-1299.01	Web Administrators

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			27-1014.00	Special Effects Artists and Animators
			15-1251.00	Computer Programmers
			15-1255.00	Web and Digital Interface Designers
			27-1024.00	Graphic Designers
CS	Computer Science	Associate of Science Degree	11-3021.00	Computer and Information Systems Managers
			15-1221.00	Computer and Information Research Scientists
			15-1211.00	Computer Systems Analysts
			15-1212.00	Information Security Analysts
			15-1251.00	Computer Programmers
			15-1252.00	Software Developers
			15-1253.00	Software Quality Assurance Analysts and Testers
			15-1254.00	Web Developers
			15-1242.00	Database Administrators
			15-1244.00	Network and Computer Systems Administrators
			15-1241.00	Computer Network Architects
			15-1232.00	Computer User Support Specialists
			15-1231.00	Computer Network Support Specialists
			15-1255.00	Web and Digital Interface Designers
			15-1299.08	Computer Systems Engineers/Architects
			15-1299.01	Web Administrators
			15-1299.02	Geographic Information Systems Technologists and Technicians
			15-1243.01	Data Warehousing Specialists
			15-2051.01	Business Intelligence Analysts
			15-1299.09	Information Technology Project Managers
			15-2051.02	Clinical Data Managers
			17-2061.00	Computer Hardware Engineers
			25-1021.00	Computer Science Teachers, Postsecondary
			43-4041.00	Credit Authorizers, Checkers, and Clerks
CS	Management Information Systems	Certificate of Achievement	11-3021.00	Computer and Information Systems Managers
			13-1111.00	Management Analysts
			15-1211.00	Computer Systems Analysts
			15-1212.00	Information Security Analysts
			15-1251.00	Computer Programmers
			15-1242.00	Database Administrators
			15-1244.00	Network and Computer Systems Administrators
			15-1243.01	Data Warehousing Specialists
			15-2051.01	Business Intelligence Analysts
			15-1299.09	Information Technology Project Managers
			15-1299.03	Document Management Specialists
			15-2031.00	Operations Research Analysts
CS	Red Hat Administration	Certificate of Achievement	15-1212.00	Information Security Analysts
			15-1244.00	Network and Computer Systems Administrators

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			15-1241.00	Computer Network Architects
			15-1241.01	Telecommunications Engineering Specialists
			15-1231.00	Computer Network Support Specialists
			15-1299.09	Information Technology Project Managers
			49-2022.00	Telecommunications Equipment Installers and Repairers, Except Line Installers
ENGR	Civil/Mechanical Engineering	Associate of Science Degree	11-9041.00	Architectural and Engineering Managers
			17-2051.00	Civil Engineers
			17-2051.01	Transportation Engineers
			17-2081.00	Environmental Engineers
			17-2051.02	Water/Wastewater Engineers
			17-2151.00	Mining and Geological Engineers, Including Mining Safety Engineers
			17-2171.00	Petroleum Engineers
			17-2199.03	Energy Engineers, Except Wind and Solar
ENGR	Civil/Mechanical Engineering	Certificate of Achievement	11-9041.00	Architectural and Engineering Managers
			17-2051.00	Civil Engineers
			17-2051.01	Transportation Engineers
			17-2081.00	Environmental Engineers
			17-2051.02	Water/Wastewater Engineers
			17-2151.00	Mining and Geological Engineers, Including Mining Safety Engineers
			17-2171.00	Petroleum Engineers
			17-2199.03	Energy Engineers, Except Wind and Solar
ENGR	Electrical Engineering	Associate of Science Degree	11-9041.00	Architectural and Engineering Managers
			17-2071.00	Electrical Engineers
			17-2072.00	Electronics Engineers, Except Computer
			17-2199.05	Mechatronics Engineers
ENGR	Electrical Engineering	Certificate of Achievement	11-9041.00	Architectural and Engineering Managers
			17-2071.00	Electrical Engineers
			17-2072.00	Electronics Engineers, Except Computer
			17-2199.05	Mechatronics Engineers
ENGR	Electrical Engineering UC Pathway	Associate of Science Degree	11-9041.00	Architectural and Engineering Managers
			17-2071.00	Electrical Engineers
			17-2072.00	Electronics Engineers, Except Computer
			17-2199.05	Mechatronics Engineers
ENGR	Electrical Engineering UC Pathway	Certificate of Achievement	11-9041.00	Architectural and Engineering Managers
			17-2071.00	Electrical Engineers
			17-2072.00	Electronics Engineers, Except Computer
			17-2199.05	Mechatronics Engineers
ENGR	Engineering	Associate of Science Degree	11-9041.00	Architectural and Engineering Managers

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			17-2011.00	Aerospace Engineers
			17-2021.00	Agricultural Engineers
			17-2031.00	Bioengineers and Biomedical Engineers
			17-2041.00	Chemical Engineers
			17-2051.00	Civil Engineers
			17-2051.01	Transportation Engineers
			17-2061.00	Computer Hardware Engineers
			17-2071.00	Electrical Engineers
			17-2072.00	Electronics Engineers, Except Computer
			17-2081.00	Environmental Engineers
			17-2051.02	Water/Wastewater Engineers
			17-2111.00	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors
			17-2111.02	Fire-Prevention and Protection Engineers
			17-2112.00	Industrial Engineers
			17-2112.01	Human Factors Engineers and Ergonomists
			17-2121.00	Marine Engineers and Naval Architects
			17-2131.00	Materials Engineers
			17-2141.00	Mechanical Engineers
			17-2141.01	Fuel Cell Engineers
			17-2151.00	Mining and Geological Engineers, Including Mining Safety Engineers
			17-2161.00	Nuclear Engineers
			17-2171.00	Petroleum Engineers
			17-2112.02	Validation Engineers
			17-2199.03	Energy Engineers, Except Wind and Solar
			17-2112.03	Manufacturing Engineers
			17-2199.05	Mechatronics Engineers
			17-2199.06	Microsystems Engineers
			17-2199.07	Photonics Engineers
			17-2199.08	Robotics Engineers
			17-2199.09	Nanosystems Engineers
			17-2199.10	Wind Energy Engineers
			17-2199.11	Solar Energy Systems Engineers
			25-1032.00	Engineering Teachers, Postsecondary
ENGR	Engineering	Certificate of Achievement	11-9041.00	Architectural and Engineering Managers
			17-2011.00	Aerospace Engineers
			17-2021.00	Agricultural Engineers
			17-2031.00	Bioengineers and Biomedical Engineers
			17-2041.00	Chemical Engineers
			17-2051.00	Civil Engineers
			17-2051.01	Transportation Engineers
			17-2061.00	Computer Hardware Engineers
			17-2071.00	Electrical Engineers
			17-2072.00	Electronics Engineers, Except Computer
			17-2081.00	Environmental Engineers

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			17-2051.02	Water/Wastewater Engineers
			17-2111.00	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors
			17-2111.02	Fire-Prevention and Protection Engineers
			17-2112.00	Industrial Engineers
			17-2112.01	Human Factors Engineers and Ergonomists
			17-2121.00	Marine Engineers and Naval Architects
			17-2131.00	Materials Engineers
			17-2141.00	Mechanical Engineers
			17-2141.01	Fuel Cell Engineers
			17-2151.00	Mining and Geological Engineers, Including Mining Safety Engineers
			17-2161.00	Nuclear Engineers
			17-2171.00	Petroleum Engineers
			17-2112.02	Validation Engineers
			17-2199.03	Energy Engineers, Except Wind and Solar
			17-2112.03	Manufacturing Engineers
			17-2199.05	Mechatronics Engineers
			17-2199.06	Microsystems Engineers
			17-2199.07	Photonics Engineers
			17-2199.08	Robotics Engineers
			17-2199.09	Nanosystems Engineers
			17-2199.10	Wind Energy Engineers
			17-2199.11	Solar Energy Systems Engineers
ENGR	Engineering Technology	Associate of Science Degree	17-3011.00	Architectural and Civil Drafters
			17-3012.00	Electrical and Electronics Drafters
			17-3013.00	Mechanical Drafters
			17-3021.00	Aerospace Engineering and Operations Technologists and Technicians
			17-3022.00	Civil Engineering Technologists and Technicians
			17-3023.00	Electrical and Electronic Engineering Technologists and Technicians
			17-3024.00	Electro-Mechanical and Mechatronics Technologists and Technicians
			17-3026.00	Industrial Engineering Technologists and Technicians
			17-3027.00	Mechanical Engineering Technologists and Technicians
			17-3027.01	Automotive Engineering Technicians
ENGR	Engineering Technology	Certificate of Achievement	17-3011.00	Architectural and Civil Drafters
			17-3012.00	Electrical and Electronics Drafters
			17-3013.00	Mechanical Drafters
			17-3021.00	Aerospace Engineering and Operations Technologists and Technicians
			17-3022.00	Civil Engineering Technologists and Technicians
			17-3023.00	Electrical and Electronic Engineering Technologists and Technicians
			17-3024.00	Electro-Mechanical and Mechatronics Technologists and Technicians
			17-3026.00	Industrial Engineering Technologists and Technicians
			17-3027.00	Mechanical Engineering Technologists and Technicians
			17-3027.01	Automotive Engineering Technicians

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
ENGR	Mechanical Engineering UC Pathway	Associate of Science Degree	11-9041.00	Architectural and Engineering Managers
			17-2141.00	Mechanical Engineers
			17-2199.05	Mechatronics Engineers
ENGR	Mechanical Engineering UC Pathway	Certificate of Achievement	11-9041.00	Architectural and Engineering Managers
			17-2141.00	Mechanical Engineers
			17-2199.05	Mechatronics Engineers
ENGR	Software Engineering	Associate of Science Degree	11-3021.00	Computer and Information Systems Managers
			11-9041.00	Architectural and Engineering Managers
			15-1251.00	Computer Programmers
			15-1252.00	Software Developers
			15-1253.00	Software Quality Assurance Analysts and Testers
			15-1254.00	Web Developers
			15-1255.00	Web and Digital Interface Designers
ENGR	Software Engineering	Certificate of Achievement	11-3021.00	Computer and Information Systems Managers
			11-9041.00	Architectural and Engineering Managers
			15-1251.00	Computer Programmers
			15-1252.00	Software Developers
			15-1253.00	Software Quality Assurance Analysts and Testers
			15-1254.00	Web Developers
			15-1255.00	Web and Digital Interface Designers
EVST	Environmental Science	Associate of Science Degree	11-1011.03	Chief Sustainability Officers
			11-3051.03	Biofuels Production Managers
			11-3051.00	Industrial Production Managers
			11-3051.06	Hydroelectric Production Managers
			11-9199.09	Wind Energy Operations Managers
			11-9199.10	Wind Energy Development Managers
			11-9199.11	Brownfield Redevelopment Specialists and Site Managers
			13-1041.01	Environmental Compliance Inspectors
			13-1199.05	Sustainability Specialists
			17-2081.00	Environmental Engineers
			17-3025.00	Environmental Engineering Technologists and Technicians
			19-1031.00	Conservation Scientists
			19-1031.02	Range Managers
			19-1031.03	Park Naturalists
			19-1032.00	Foresters
			19-2041.00	Environmental Scientists and Specialists, Including Health
			19-2041.01	Climate Change Policy Analysts
			19-2041.02	Environmental Restoration Planners
			19-3011.01	Environmental Economists
			19-4042.00	Environmental Science and Protection Technicians, Including Health
			19-4071.00	Forest and Conservation Technicians

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			33-2022.00	Forest Fire Inspectors and Prevention Specialists
			33-3031.00	Fish and Game Wardens
			41-3031.00	Securities, Commodities, and Financial Services Sales Agents
			45-4011.00	Forest and Conservation Workers
			47-1011.03	Solar Energy Installation Managers
			53-7062.04	Recycling and Reclamation Workers
			11-9121.00	Natural Sciences Managers
			25-1053.00	Environmental Science Teachers, Postsecondary
			25-1043.00	Forestry and Conservation Science Teachers, Postsecondary
EVST	Environmental Studies	Associate of Arts Degree	11-1011.03	Chief Sustainability Officers
			11-9121.00	Natural Sciences Managers
			11-9199.02	Compliance Managers
			19-1031.00	Conservation Scientists
			19-1031.02	Range Managers
			19-1031.03	Park Naturalists
			19-1032.00	Foresters
			19-2041.01	Climate Change Policy Analysts
			19-2041.02	Environmental Restoration Planners
			19-4071.00	Forest and Conservation Technicians
			33-1021.00	First-Line Supervisors of Firefighting and Prevention Workers
			33-2022.00	Forest Fire Inspectors and Prevention Specialists
			33-3031.00	Fish and Game Wardens
			41-3031.00	Securities, Commodities, and Financial Services Sales Agents
			45-4011.00	Forest and Conservation Workers
			53-1042.01	Recycling Coordinators
GEOG	Geography	Associate in Arts Degree for Transfer	15-1299.02	Geographic Information Systems Technologists and Technicians
			17-1021.00	Cartographers and Photogrammetrists
			17-3022.00	Civil Engineering Technologists and Technicians
			17-3031.00	Surveying and Mapping Technicians
			19-3051.00	Urban and Regional Planners
			19-3092.00	Geographers
			19-4043.00	Geological Technicians, Except Hydrologic Technicians
			19-4051.00	Nuclear Technicians
			25-1064.00	Geography Teachers, Postsecondary
			25-4011.00	Archivists
			25-4012.00	Curators
GEOL	Geology	Associate in Science Degree for Transfer	11-3051.02	Geothermal Production Managers
			11-9121.00	Natural Sciences Managers
			11-9121.02	Water Resource Specialists
			15-1299.02	Geographic Information Systems Technologists and Technicians
			17-1022.01	Geodetic Surveyors
			17-2081.00	Environmental Engineers

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			17-2151.00	Mining and Geological Engineers, Including Mining Safety Engineers
			17-2171.00	Petroleum Engineers
			19-1013.00	Soil and Plant Scientists
			19-1031.00	Conservation Scientists
			19-2021.00	Atmospheric and Space Scientists
			19-2042.00	Geoscientists, Except Hydrologists and Geographers
			19-2043.00	Hydrologists
			19-4043.00	Geological Technicians, Except Hydrologic Technicians
			25-1051.00	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary
			49-9099.01	Geothermal Technicians
GEOL	Geology	Certificate of Achievement	11-3051.02	Geothermal Production Managers
			11-9121.00	Natural Sciences Managers
			11-9121.02	Water Resource Specialists
			15-1299.02	Geographic Information Systems Technologists and Technicians
			17-1022.01	Geodetic Surveyors
			17-2081.00	Environmental Engineers
			17-2151.00	Mining and Geological Engineers, Including Mining Safety Engineers
			17-2171.00	Petroleum Engineers
			19-1013.00	Soil and Plant Scientists
			19-1031.00	Conservation Scientists
			19-2021.00	Atmospheric and Space Scientists
			19-2042.00	Geoscientists, Except Hydrologists and Geographers
			19-2043.00	Hydrologists
			19-4043.00	Geological Technicians, Except Hydrologic Technicians
			25-1051.00	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary
			49-9099.01	Geothermal Technicians
GEOL	Geology Major	Certificate of Achievement	11-3051.02	Geothermal Production Managers
			11-9121.00	Natural Sciences Managers
			11-9121.02	Water Resource Specialists
			15-1299.02	Geographic Information Systems Technologists and Technicians
			17-1022.01	Geodetic Surveyors
			17-2081.00	Environmental Engineers
			17-2151.00	Mining and Geological Engineers, Including Mining Safety Engineers
			17-2171.00	Petroleum Engineers
			19-1013.00	Soil and Plant Scientists
			19-1031.00	Conservation Scientists
			19-2021.00	Atmospheric and Space Scientists
			19-2042.00	Geoscientists, Except Hydrologists and Geographers
			19-2043.00	Hydrologists
			19-4043.00	Geological Technicians, Except Hydrologic Technicians
			25-1051.00	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary
			49-9099.01	Geothermal Technicians

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
HORT	Horticulture	Associate of Science Degree	11-9013.00	Farmers, Ranchers, and Other Agricultural Managers
			27-1023.00	Floral Designers
			37-1012.00	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers
			37-3011.00	Landscaping and Groundskeeping Workers
			37-3012.00	Pesticide Handlers, Sprayers, and Applicators, Vegetation
			45-1011.00	First-Line Supervisors of Farming, Fishing, and Forestry Workers
			45-2092.00	Farmworkers and Laborers, Crop, Nursery, and Greenhouse
HORT	Horticulture	Certificate of Completion - noncredit	11-9013.00	Farmers, Ranchers, and Other Agricultural Managers
			27-1023.00	Floral Designers
			37-1012.00	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers
			37-3011.00	Landscaping and Groundskeeping Workers
			37-3012.00	Pesticide Handlers, Sprayers, and Applicators, Vegetation
			45-1011.00	First-Line Supervisors of Farming, Fishing, and Forestry Workers
			45-2092.00	Farmworkers and Laborers, Crop, Nursery, and Greenhouse
HORT	Landscape Design	Certificate of Achievement	11-9041.00	Architectural and Engineering Managers
			17-1012.00	Landscape Architects
			25-1031.00	Architecture Teachers, Postsecondary
			37-1012.00	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers
			37-3011.00	Landscaping and Groundskeeping Workers
HORT	Landscape Maintenance and Construction	Certificate of Achievement	37-1012.00	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers
			37-3011.00	Landscaping and Groundskeeping Workers
			37-3012.00	Pesticide Handlers, Sprayers, and Applicators, Vegetation
HORT	Nursery, Greenhouse, and Grower Operations	Certificate of Achievement	11-9013.00	Farmers, Ranchers, and Other Agricultural Managers
			45-1011.00	First-Line Supervisors of Farming, Fishing, and Forestry Workers
			45-2092.00	Farmworkers and Laborers, Crop, Nursery, and Greenhouse
HORT	Ornamental Horticulture	Certificate of Achievement	11-9013.00	Farmers, Ranchers, and Other Agricultural Managers
			27-1023.00	Floral Designers
			37-1012.00	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers
			37-3011.00	Landscaping and Groundskeeping Workers
			37-3012.00	Pesticide Handlers, Sprayers, and Applicators, Vegetation
			37-3013.00	Tree Trimmers and Pruners
			45-1011.00	First-Line Supervisors of Farming, Fishing, and Forestry Workers
			45-2092.00	Farmworkers and Laborers, Crop, Nursery, and Greenhouse
MATH	College Mathematics Pathway	Certificate of Competency - noncredit	15-2041.01	Biostatisticians
			15-2041.00	Statisticians
			25-1022.00	Mathematical Science Teachers, Postsecondary
			11-9121.01	Clinical Research Coordinators
			11-9121.00	Natural Sciences Managers
			11-9121.02	Water Resource Specialists

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			15-2021.00	Mathematicians
MATH	College Mathematics Support	Certificate of Competency - noncredit	15-2021.00	Mathematicians
			25-1022.00	Mathematical Science Teachers, Postsecondary
MATH	Foundational Mathematics Pathway	Certificate of Competency - noncredit	25-1022.00	Mathematical Science Teachers, Postsecondary
			15-2021.00	Mathematicians
			25-3041.00	Tutors
MATH	Math Jam Tutor Pathway	Certificate of Completion - noncredit	15-2041.01	Biostatisticians
			15-2041.00	Statisticians
			15-2021.00	Mathematicians
MATH	Mathematics	Associate in Science Degree for Transfer	11-9031.00	Education Administrators, Preschool and Childcare Center/Program
			11-9032.00	Education Administrators, Elementary and Secondary School
			11-9033.00	Education Administrators, Postsecondary
			11-9121.00	Natural Sciences Managers
			13-2051.00	Financial Analysts
			13-2099.01	Financial Quantitative Analysts
			15-2011.00	Actuaries
			15-2021.00	Mathematicians
			15-2041.00	Statisticians
			19-2011.00	Astronomers
			19-3011.00	Economists
			19-4021.00	Biological Technicians
			25-1022.00	Mathematical Science Teachers, Postsecondary
			25-1063.00	Economics Teachers, Postsecondary
			25-1081.00	Education Teachers, Postsecondary
			25-2022.00	Middle School Teachers, Except Special and Career/Technical Education
			25-2031.00	Secondary School Teachers, Except Special and Career/Technical Education
			25-2031.00	Secondary School Teachers, Except Special and Career/Technical Education
			25-3041.00	Tutors
			25-9042.00	Teaching Assistants, Preschool, Elementary, Middle, and Secondary School, Except Special Education
			25-9044.00	Teaching Assistants, Postsecondary
			43-3031.00	Bookkeeping, Accounting, and Auditing Clerks
			43-9111.00	Statistical Assistants
OSH	Occupational Safety	Certificate of Achievement	11-9199.02	Compliance Managers
			13-1041.01	Environmental Compliance Inspectors
			19-5011.00	Occupational Health and Safety Specialists
			19-5012.00	Occupational Health and Safety Technicians
OSH	Occupational Safety and Health	Associate of Science Degree	11-9199.02	Compliance Managers
			13-1041.01	Environmental Compliance Inspectors
			19-5011.00	Occupational Health and Safety Specialists

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			19-5012.00	Occupational Health and Safety Technicians
OSH	Occupational Safety and Health	Certificate of Achievement	11-9199.02	Compliance Managers
			13-1041.01	Environmental Compliance Inspectors
			19-5011.00	Occupational Health and Safety Specialists
			19-5012.00	Occupational Health and Safety Technicians
PHYS	Physics	Associate of Science Degree	11-9121.00	Natural Sciences Managers
			17-2011.00	Aerospace Engineers
			17-2071.00	Electrical Engineers
			17-2161.00	Nuclear Engineers
			17-2199.03	Energy Engineers, Except Wind and Solar
			17-3021.00	Aerospace Engineering and Operations Technologists and Technicians
			17-3025.00	Environmental Engineering Technologists and Technicians
			19-1021.00	Biochemists and Biophysicists
			19-2011.00	Astronomers
			19-2012.00	Physicists
			19-2021.00	Atmospheric and Space Scientists
			19-2032.00	Materials Scientists
			19-2032.00	Materials Scientists
			19-4051.00	Nuclear Technicians
			19-4051.02	Nuclear Monitoring Technicians
			25-1032.00	Engineering Teachers, Postsecondary
			25-1051.00	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary
			25-1054.00	Physics Teachers, Postsecondary
			25-2031.00	Secondary School Teachers, Except Special and Career/Technical Education
			47-2073.00	Operating Engineers and Other Construction Equipment Operators
VWT	Enology	Associate of Science Degree	11-9013.00	Farmers, Ranchers, and Other Agricultural Managers
			13-1021.00	Buyers and Purchasing Agents, Farm Products
			19-4012.00	Agricultural Technicians
			25-1041.00	Agricultural Sciences Teachers, Postsecondary
			45-1011.00	First-Line Supervisors of Farming, Fishing, and Forestry Workers
			45-2011.00	Agricultural Inspectors
			45-2092.00	Farmworkers and Laborers, Crop, Nursery, and Greenhouse
VWT	Enology	Certificate of Achievement	11-9013.00	Farmers, Ranchers, and Other Agricultural Managers
			13-1021.00	Buyers and Purchasing Agents, Farm Products
			19-4012.00	Agricultural Technicians
			25-1041.00	Agricultural Sciences Teachers, Postsecondary
			45-1011.00	First-Line Supervisors of Farming, Fishing, and Forestry Workers
			45-2011.00	Agricultural Inspectors
			45-2092.00	Farmworkers and Laborers, Crop, Nursery, and Greenhouse
VWT	Viticulture	Associate of Science Degree	11-9013.00	Farmers, Ranchers, and Other Agricultural Managers

Discipline	Program	Credential	Occupation Code	Occupation Title
Science, Technology, Engineering, and Mathematics Division				
			13-1021.00	Buyers and Purchasing Agents, Farm Products
			19-4012.00	Agricultural Technicians
			25-1041.00	Agricultural Sciences Teachers, Postsecondary
			45-1011.00	First-Line Supervisors of Farming, Fishing, and Forestry Workers
			45-2011.00	Agricultural Inspectors
			45-2092.00	Farmworkers and Laborers, Crop, Nursery, and Greenhouse
VWT	Viticulture	Certificate of Achievement	11-9013.00	Farmers, Ranchers, and Other Agricultural Managers
			13-1021.00	Buyers and Purchasing Agents, Farm Products
			19-4012.00	Agricultural Technicians
			25-1041.00	Agricultural Sciences Teachers, Postsecondary
			45-1011.00	First-Line Supervisors of Farming, Fishing, and Forestry Workers
			45-2011.00	Agricultural Inspectors
			45-2092.00	Farmworkers and Laborers, Crop, Nursery, and Greenhouse
VWT	Wine Hospitality	Certificate of Achievement	35-3031.00	Waiters and Waitresses