TAC Chapter 130. Career and Technical Education

Subchapter A. Agriculture, Food, and Natural Resources Cluster

Code	Course
13000600*	Veterinary Medical Applications (1) (VETMEDAP)
13000700*	Advanced Animal Science (1) (ADVANSCI)
13000900*	Agribusiness Management and Marketing (1/2-1) (AGRBUSMM)
13001000*	Mathematical Applications in Agriculture, Food, and Natural Resources (1) (MATHAFNR)
13001200*	Advanced Environmental Technology (1) (ADVENVT)
13001400*	Food Processing (1-2) (FOODPRO)
13001600*	Range Ecology and Management(1/2-1) (RECOMGT)
13001900*	Landscape Design and Turf Grass Management (1/2-1) (LNDTGMGT)
13002100*	Advanced Plant and Soil Science (1) (ADVPSSCI)
13002300*	Agricultural Facilities Design and Fabrication (1-2) (AGFDFAB)
13002400*	Agricultural Power Systems (1-2) (AGPOWSYS)
13002500*	Practicum in Agriculture, Food, and Natural Resources (2-3) (PRACAFNR)
13002510*	Practicum in Agriculture, Food, and Natural Resources II (2-3) (PRACAFN2)

Subchapter B. Architecture and Construction Cluster

Code	Course
13004400*	Advanced Interior Design (1-2) (ADVINDSN)
13004500*	Practicum in Interior Design (2-3) (PRACIDSN)
13004510*	Practicum in Interior Design II (2-3) (PRACIDS2)
13004700*	Advanced Architectural Design (2-3) (ADVARCH)
13004800*	Practicum in Architectural Design (2-3) (PRACADSN)
13004810*	Practicum in Architectural Design II (2-3) (PRACADS2)
13005000*	Advanced Construction Management (2-3) (ADVCONSM)
13005200*	Advanced Construction Technology (2-3) (ADVCONST)
13005300*	Mill and Cabinetmaking Technology (2-3) (MACTECH)
13005400*	Building Maintenance Technology (1-2) (BUILDMAN)
13005500*	Advanced Building Maintenance Technology (2-3) (ADBUILD)
13005600*	Electrical Technology (1-2) (ELECTECH)
13005700*	Advanced Electrical Technology (2-3) (ADVELECT)
13005800*	HVAC and Refrigeration Technology (1-2) (HVACREF)
13005900*	Advanced HVAC and Refrigeration Technology (2-3) (ADVHVAC)
13006000*	Piping and Plumbing Technology (1-2) (PIPLTECH)
13006100*	Advanced Piping and Plumbing Technology (2-3) (ADVPIPL)
13006200*	Practicum in Construction Management (2-3) (PRACCONS)
13006210*	Practicum in Construction Management II (2-3) (PRACCON2)

Subchapter C. Arts, A/V Technology, and Communications Cluster

Code	Course
13008300*	Animation (1-2) (ANIMAT)
13008400*	Advanced Animation (2-3) (ADVANIM)
13008600*	Advanced Audio Video Production (2-3) (ADVAVPRO)
13008700*	Practicum in Audio Video Production (2-3) (PRACAVT)
13008710*	Practicum in Audio Video Production II (2-3) (PRACAVT2)

13008900*	Advanced Graphic Design and Illustration (2-3) (ADVGRADI)
13009000*	Practicum in Graphic Design and Illustration (2-3) (PRACCGRADI)
13009010*	Practicum in Graphic Design and Illustration II (2-3) (PRACGRAD2)
13009100*	Commercial Photography (1-2) (COMMPHOT)
13009200*	Advanced Commercial Photography (2-3) (ADVCOMMP)
13009400*	Advanced Fashion Design (2-3) (ADVFASHD)
13009500*	Practicum in Fashion Design (2-3) (PRACFASH)
13009510*	Practicum in Fashion Design II (2-3) (PRACFAS2)
13009700*	Advanced Printing and Imaging Technology (2-3) (ADVPRIMT)
13009800*	Practicum in Printing and Imaging Technology (2-3) (PRACPRIT)
13009810*	Practicum in Printing and Imaging Technology II (2-3) (PRACPRI2)
N1300992*	Radio Broadcasting II (1/2-1) (RADIOBR2)
N1300993*	Video Game Design (1/2-1) (VIDEOGD)
	Subchapter D. Business Management and Administration Cluster
13011400*	Business Information Management I (1-2) (BUSIM1)
13011500*	Business Information Management II (1-2) (BUSIM2)
13011700*	Business Law (1/2-1) (BUSLAW)
13011800*	Global Business (1/2-1) (GLOBBUS)
13012000*	Virtual Business (1/2-1) (VIRTBUS)
13012100*	Business Management (1-2) (BUSMGT)
13012200*	Practicum in Business Management (2-3) (PRACBM)
13012210*	Practicum in Business Management II (2-3) (PRACBM2)
	Subchapter E. Education and Training Cluster
13014400*	Instructional Practices in Education and Training (1-2) (INPREDTR)
13014500*	Practicum in Education and Training (2-3) (PRACEDTR)
13014510*	Practicum in Education and Training II (2-3) (PRACEDT2)
	Subchapter F. Finance Cluster
13016700*	Accounting II (1) (ACCOUNT2)
13016800*	Financial Analysis (1) (FINANAL)
13016900*	Statistics and Risk Management (1) (STATSRM)
	Subchapter G. Government and Public Administration Cluster
13018400*	Political Science II (1-2) (POLISCI2)
13018500*	Revenue, Taxation, and Regulation (1-2) (REVTAXRE)
13018800*	National Security (2-3) (NATLSEC)
13018900*	Foreign Service and Diplomacy (2-3) (FORSRVD)
13019000*	Practicum in Local, State, and Federal Government (2-3) (PRACLSFG)
13019010*	Practicum in Local, State, and Federal Government II (2-3) (PRACLSF2)
	Subchapter H. Health Science Cluster
13020300*	Medical Terminology (1/2) (MEDTERM)
13020500*	Practicum in Health Science (2-3) (PRACHLSC)

13020510*	Practicum in Health Science II (2-3) (PRACHLS2)
13020600*	Anatomy and Physiology (1) (ANATPHYS)
13020700*	Medical Microbiology (1/2-1) (MICRO)
13020800*	Pathophysiology (1/2-1) (PATHO)
13020900*	World Health Research (1) (WORLDHR)
N1302091*	Medical Biotechnology (2) (MEDBIO)
N1302092*	Principles of Biomedical Science (PLTW) (1) (PRBIOSCI)
N1302093*	Human Body Systems (PLTW) (1) (HUMBODSY)
N1302094*	Medical Interventions (PLTW) (1) (MEDINT)
	Subchapter I. Hospitality and Tourism Cluster
13022600*	Culinary Arts (1-2) (CULARTS)
13022700*	Practicum in Culinary Arts (2-3) (PRACCUL)
13022710*	Practicum in Culinary Arts II (2-3) (PRACCUL2)
13022800*	Hospitality Services (1-2) (HOSPSRVS)
13022900*	Practicum in Hospitality and Tourism (2-3) (PRACHOSP)
13022910*	Practicum in Hospitality and Tourism II (2-3) (PRACHOS2)
13023000*	Food Science (1) (FOODSCI)
	Subchapter J. Human Services Cluster
13024600*	Counseling and Mental Health (1-2) (COUNSMH)
13024800*	Child Guidance (1-2) (CHILDGUI)
13025000*	Practicum in Human Services (2-3) (PRACHUSR)
13025010*	Practicum in Human Services II (2-3) (PRACHUS2)
13025200*	Cosmetology I (2-3) (COSMET1)
13025300*	Cosmetology II (2-3) (COSMET2)
N1302535*	Barbering II (2-3) (BARBER2)
	Subchapter K. Information Technology Cluster
13027400*	Telecommunications and Networking (1-2) (TELECOMN)
13027500*	Computer Technician (2-3) (COMPTECH)
13027700*	Advanced Computer Programming (1-2) (ADVCOMPP)
13027900*	Web Technologies (1/2-1) (WEBTECH)
13028000*	Research in Information Technology Solutions (2-3) (RESITSOL)
13028010*	Research in Information Technology Solutions II (2-3) (RESITSO2)
N1302801*	Database Fundamentals (Oracle) (1/2-1) (DATAFUND)
N1302802*	Database Programming (Oracle) (1/2-2) (DATAPROG)
N1302803*	Internetworking Technologies I (Cisco) (1-3) (INTNET1)
N1302804*	Internetworking Technologies II (Cisco) (1-3) (INTNET2)
N1302805*	Geographic Information Systems (1) (GIS)
N1302806*	Raster Based Geographic Information Systems (1) (RBGIS)
N1302807*	Spatial Technology and Remote Sensing (1/2-1) (SPATECRS)
	Subchapter L. Law, Public Safety, Corrections, and Security Cluster
13029400*	Law Enforcement II (1-2) (LAWENF2)
13029500*	Forensic Science (1) (FORENSCI)
13029600*	Court Systems and Practices (1-2) (COURTSP)
13029700*	Correctional Services (1-2) (CORRSRVS)

13029800*	Security Services (1-2) (SECSRVS)
13030000*	Firefighter II (2-3) (FIRE2)
13030100*	Practicum in Law, Public Safety, Corrections, and Security (2-3) (PRACLPCS)
13030110*	Practicum in Law, Public Safety, Corrections, and Security II (2-3) (PRACLPC2)
N1303012	Forensic Psychology (1) (FORENSPSY)
	Subchapter M. Manufacturing Cluster
13032400*	Advanced Welding (2-3) (ADVWELD)
13032600*	Advanced Precision Metal Manufacturing (2-3) (ADVPMM)
13032800*	Advanced Flexible Manufacturing (2-3) (ADVFLEXM)
13032900*	Manufacturing Engineering (2-3) (MANUENG)
13033000*	Practicum in Manufacturing (2-3) (PRACMANU)
13033010*	Practicum in Manufacturing (2-3) (PRACMAN2)
	Subchapter N. Marketing Cluster
13034700*	Marketing Dynamics (2-3) (MKTGDYN)
13034800*	Practicum in Marketing Dynamics (2-3) (PRACMKTG)
13034810*	Practicum in Marketing Dynamics II (2-3) (PRACMKT2)
	Subchapter O. Science, Technology, Engineering, and Mathematics Cluster
13036400*	Advanced Biotechnology (1) (ADVBIOT)
13036600*	
	Advanced Engineering Design and Presentation (2-3) (ADVENGDP)
13036700*	Engineering Mathematics (1) (ENGMATH)
13036900*	Advanced Electronics (2-3) (ADVELECT)
13037100*	Principles of Technology (1) (PRINTECH)
13037200*	Scientific Research and Design (1) (SCIRD)
13037210*	Scientific Research and Design II (1) (SCIRD2)
13037220*	Scientific Research and Design III (1) (SCIRD3)
13037300*	Engineering Design and Problem Solving (1) (ENGDPRS)
13037400*	Practicum in Science, Technology, Engineering, and Mathematics (2-3) (PRACSTEM)
13037410*	Practicum in Science, Technology, Engineering, and Mathematics II (2-3) (PRACSTE2)
N1303745*	Aerospace Engineering (PLTW) (1) (AERO)
N1303746*	Biotechnology Engineering (PLTW) (1) (BIOENG)
N1303747*	Civil engineering and Architecture (PLTW) (1) (CEA)
N1303748*	Computer Integrated Manufacturing (PLTW) (1) (CIM)
N1303749*	Engineering Design and Development (PLTW) (1) (EDD)
N1303750*	Data Acquisition and Analysis (1) (DATAAA)
N1303751*	Engineering: The Digital Future (Infinity) (1/2-1) (ENGTDF)
	Subchapter P. Transportation, Distribution, and Logistics Cluster
13039400*	Aircraft Technology (1-2) (AIRTECH)
13039500*	Advanced Aircraft Technology (2-3) (ADVAIRT)
13039600*	Automotive Technology (1-2) (AUTOTECH)
13039700*	Advanced Automotive Technology (2-3) (ADVAUTOT)
13039800*	Collision Repair and Refinishing (1-2) (COLLISRR)

13039900*	Advanced Collision Repair and Refinishing (2-3) (ADVCOLLIS)
13040000*	Small Engine Technology (1-2) (SMENGTEC)
13040100*	Advanced Small Engine Technology (2-3) (ADVSMENG)
13040200*	Transportation Systems Management (1-2) (TRANSP)
13040300*	Logistics, Planning and Management Systems (1-2) (LPMSYS)
13040400*	Practicum in Transportation, Distribution, and Logistics (2-3) (PRACTDL)
13040410*	Practicum in Transportation, Distribution, and Logistics II (2-3) (PRACTDL2)

	TAC Chapter 127. Career Development	Course Abbreviation	Course Units
	Subchapter B. High School		
12701300	Career Preparation I	CAREERP1	2
12701305	Career Preparation I/Extended Career Preparation	EXCAREE1	3
12701400	Career Preparation II	CAREERP2	2
12701405	Career Preparation II/Extended Career Preparation	EXCAREE2	3
12701510	Project-Based Research (Second Time Taken)	PROBS2	1
12701520	Project-Based Research (Third Time Taken)	PROBS3	1
	TAC Chapter 130. Career and Technical Education	Course Abbreviation	Course Units
	Subchapter A. Agriculture, Food, and Natural Resources Career Cluster		
13000600	Veterinary Medical Applications	VETMEDAP	1
13000610	Veterinary Medical Applications/Agricultural Laboratory and Field Experience	VETMEDLAB	2
13000700	Advanced Animal Science	ADVANSCI	1
13000900	Agribusiness Management and Marketing	AGRBUSMM	1
13000910	Agribusiness Management and Marketing/Agricultural Laboratory and Field Experience	AGRBUSLAB	2
13001000	Mathematical Applications in Agriculture, Food, and Natural Resources	MATHAFNR	1
13001200	Advanced Energy and Natural Resource Technology	ADENRT	1
13001210	Advanced Energy and Natural Resource Technology/Agricultural Laboratory and Field Experience	ADENRTLAB	2
13001260	Oil and Gas Production II	OILGP2	1
13001265	Oil and Gas Production II/Agricultural Laboratory and Field Experience	OILGPLAB2	2
13001400	Food Processing	FOODPRO	1
13001410	Food Processing/Agricultural Laboratory and Field Experience	FOODPRLAB	2
13001600	Range Ecology and Management	RECOMGT	1
13001610	Range Ecology and Management/Agricultural Laboratory and Field Experience	RECOMGLAB	2
13002000	Horticultural Science	HORTISCI	1
13002010	Horticultural Science/Agricultural Laboratory and Field Experience	HORSCILAB	2
13002100	Advanced Plant and Soil Science	ADVPSSCI	1
13002300	Agricultural Structures Design and Fabrication	AGSDF	1
13002310	Agricultural Structures Design and Fabrication/Agricultural Laboratory and	AGSDFLAB	2

13002310	Fabrication/Agricultural Laboratory and Field Experience	AGSDFLAB	2
13002350	Agricultural Equipment Design and Fabrication	AGEQDF	1
13002355	Agricultural Equipment Design and Fabrication/Agricultural Laboratory and Field Experience	AGEQDFLAB	2
13002400	Agricultural Power Systems	AGPOWSYS	2
13002410	Agricultural Power Systems/Agricultural Laboratory and Field Experience	AGPOWSLAB	3
13002500	Practicum in Agriculture, Food, and Natural Resources (First Time Taken)	PRACAFNR1	2
13002505	Practicum in Agriculture, Food, and Natural Resources/Extended Practicum in Agriculture, Food, and Natural Resources (First Time Taken)	EXPRAFNR1	3
13002510	Practicum in Agriculture, Food, and Natural Resources (Second Time Taken)	PRACAFNR2	2
13002515	Practicum in Agriculture, Food, and Natural Resources/Extended Practicum in Agriculture, Food, and Natural Resources (Second Time Taken)	EXPRAFNR2	3
Subchapter B. Architecture and Construction Career Cluster			
13004400	Interior Design II	INTERDS2	2
13004500	Practicum in Interior Design (First Time Taken)	PRACIDS1	2
13004505	Practicum in Interior Design/Extended Practicum in Interior Design (First Time Taken)	EXPRIDS1	3
13004510	Practicum in Interior Design (Second Time Taken)	PRACIDS2	2
13004515	Practicum in Interior Design/Extended Practicum in Interior Design (Second Time Taken)	EXPRIDS2	3
13004700	Architectural Design II	ARCHDSN2	2
13004800	Practicum in Architectural Design (First Time Taken)	PRACADS1	2
13004805	Practicum in Architectural Design/Extended Practicum in Architectural Design (First Time Taken)	EXPRADS1	3
13004810	Practicum in Architectural Design (Second Time Taken)	PRACADS2	2
13004815	Practicum in Architectural Design/Extended Practicum in Architectural Design (Second Time Taken)	EXPRADS2	3
13005000	Construction Management II	CONSMGT2	2
13005200	Construction Technology II	CONTECH2	2
13005250	Practicum in Construction Technology (First Time Taken)	PRACCT1	2

13005255	Practicum in Construction Technology/Extended Practicum in Construction Technology (First Time Taken)	EXPRCT1	3
13005260	Practicum in Construction Technology (Second Time Taken)	PRACCT2	2
13005265	Practicum in Construction Technology/Extended Practicum in Construction Technology (Second Time Taken)	EXPRCT2	3
13005500	Building Maintenance Technology II	BUILDMA2	2
13005700	Electrical Technology II	ELECTEC2	2
13005900	Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II	HVACREF2	2
13006100	Plumbing Technology II	PLTECH2	2
13006200	Practicum in Construction Management (First Time Taken)	PRACCM1	2
13006205	Practicum in Construction Management/Extended Practicum in Construction Management (First Time Taken)	EXPRCM1	3
13006210	Practicum in Construction Management (Second Time Taken)	PRACCM2	2
13006215	Practicum in Construction Management/Extended Practicum in Construction Management (Second Time Taken)	EXPRCM2	3
13006400	Masonry Technology II	MASTECH2	2
13006450	Practicum in Masonry Technology (First Time Taken)	PRACMAS1	2
13006455	Practicum in Masonry Technology/Extended Practicum in Masonry Technology (First Time Taken)	EXPRMAS1	3
13006460	Practicum in Masonry Technology (Second Time Taken)	PRACMAS2	2
13006465	Practicum in Masonry Technology/Extended Practicum in Masonry Technology (Second Time Taken)	EXPRMAS2	3
Subchapter C. Arts, A/V Technology, and Communications Career Cluster			
13008400	Animation II	ANIMAT2	1
13008410	Animation II/Animation II Lab	ANILAB2	2
13008450	Practicum in Animation (First Time Taken)	PRACANI1	2
13008455	Practicum in Animation/Extended Practicum in Animation (First Time Taken)	EXPRANI1	3

13008460	Practicum in Animation (Second Time Taken)	PRACANI2	2
13008465	Practicum in Animation/Extended Practicum in Animation (Second Time Taken)	EXPRANI2	3
13008600	Audio/Video Production II	AVPROD2	1
13008610	Audio/Video Production II/Audio/Video Production II Lab	AVPLAB2	2
13008700	Practicum in Audio/Video Production (First Time Taken)	PRACAVP1	2
13008705	Practicum in Audio/Video Production/Extended Practicum in Audio/Video Production (First Time Taken)	EXPRAVP1	3
13008710	Practicum in Audio/Video Production (Second Time Taken)	PRACAVP2	2
13008715	Practicum in Audio/Video Production/Extended Practicum in Audio/Video Production (Second Time Taken)	EXPRAVP2	3
13008900	Graphic Design and Illustration II	GRAPHDI2	1
13008910	Graphic Design and Illustration II/Graphic Design and Illustration II Lab	GRDLAB2	2
13009000	Practicum in Graphic Design and Illustration (First Time Taken)	PRACGRD1	2
13009005	Practicum in Graphic Design and Illustration/Extended Practicum in Graphic Design and Illustration (First Time Taken)	EXPRGRD1	3
13009010	Practicum in Graphic Design and Illustration (Second Time Taken)	PRACGRD2	2
13009015	Practicum in Graphic Design and Illustration/Extended Practicum in Graphic Design and Illustration (Second Time Taken)	EXPRGRD2	3
13009200	Commercial Photography II	CPHOTO2	1
13009210	Commercial Photography II/Commercial Photography II Lab	CPHLAB2	2
13009250	Practicum in Commercial Photography (First Time Taken)	PRACCPH1	2
13009255	Practicum in Commercial Photography/Extended Practicum in Commercial Photography (First Time Taken)	EXPRCPH1	3
13009260	Practicum in Commercial Photography (Second Time Taken)	PRACCPH2	2
13009265	Practicum in Commercial Photography/Extended Practicum in Commercial Photography	EXPRCPH2	3

	(Second Time Taken)		
13009400	Fashion Design II	FASHDSN2	1
13009410	Fashion Design II/Fashion Design II Lab	FASLAB2	2
13009500	Practicum in Fashion Design (First Time Taken)	PRACFAS1	2
13009505	Practicum in Fashion Design/Extended Practicum in Fashion Design (First Time Taken)	EXPRFAS1	3
13009510	Practicum in Fashion Design (Second Time Taken)	PRACFAS2	2
13009515	Practicum in Fashion Design/Extended Practicum in Fashion Design (Second Time Taken)	EXPRFAS2	3
13009700	Printing and Imaging Technology II	PRIMTEC2	1
13009710	Printing and Imaging Technology II/Printing and Imaging Technology II Lab	PRILAB2	2
13009800	Practicum in Printing and Imaging Technology (First Time Taken)	PRACPRI1	2
13009805	Practicum in Printing and Imaging Technology/Extended Practicum in Printing and Imaging Technology (First Time Taken)	EXPRPRI1	3
13009810	Practicum in Printing and Imaging Technology (Second Time Taken)	PRACPRI2	2
13009815	Practicum in Printing and Imaging Technology/Extended Practicum in Printing and Imaging Technology (Second Time Taken)	EXPRPRI2	3
13009960	Digital Audio Technology II	DATECH2	1
Subchapter D. Business Management and Administration Career Cluster			
13011500	Business Information Management II	BUSIM2	1
13011510	Business Information Management II/Business Lab	BUSMLAB2	2
13011600	Business English	BUSENGL	1
13012100	Business Management	BUSMGT	1
13012200	Practicum in Business Management (First Time Taken)	PRACBM	2
13012205	Practicum in Business Management/Extended Practicum in Business Management (First Time Taken)	EXPRBM	3
13012210	Practicum in Business Management (Second Time Taken)	PRACBM2	2
13012215	Practicum in Business Management/Extended Practicum in Business Management (Second Time Taken)	EXPRBM2	3
Subchapter E. Education and Training Career Cluster			

13014400	Instructional Practices	INPRAC	2
13014500	Practicum in Education and Training (First Time Taken)	PRACEDT1	2
13014505	Practicum in Education and Training/Extended Practicum in Education and Training (First Time Taken)	EXPREDT1	3
13014510	Practicum in Education and Training (Second Time Taken)	PRACEDT2	2
13014515	Practicum in Education and Training/Extended Practicum in Education and Training (Second Time Taken)	EXPREDT2	3
Subchapter F. Finance Career Cluster			
13016700	Accounting II	ACCOUNT2	1
13016800	Financial Analysis	FINANAL	1
13016900	Statistics and Business Decision Making	STATBDM	1
13018000	Financial Mathematics	FINMATH	1
Subchapter G. Government and Public Administration Career Cluster			
13018400	Political Science II	POLISCI2	1
13018500	Revenue, Taxation, and Regulation	REVTAXRE	1
13018800	National Security	NATLSEC	1
13018900	Foreign Service and Diplomacy	FORSRVD	1
13019000	Practicum in Local, State, and Federal Government (First Time Taken)	PRACLSF1	2
13019005	Practicum in Local, State, and Federal Government/Extended Practicum in Local, State, and Federal Government (First Time Taken)	EXPRLSF1	3
13019010	Practicum in Local, State, and Federal Government (Second Time Taken)	PRACLSF2	2
13019015	Practicum in Local, State, and Federal Government/Extended Practicum in Local, State, and Federal Government (Second Time Taken)	EXPRLSF2	3
Subchapter H. Health Science Career Cluster			
13020400	Health Science Theory	HLTHSCI	1
13020410	Health Science Theory/Health Science Clinical	HLSCLIN	2
13020500	Practicum in Health Science (First Time Taken)	PRACHLS1	2
13020505	Practicum in Health Science/Extended Practicum in Health Science (First Time Taken)	EXPRHLS1	3
13020510	Practicum in Health Science (Second Time Taken)	PRACHLS2	2
13020515	Practicum in Health Science/Extended Practicum in Health Science (Second Time Taken)	EXPRHLS2	3

13020600	Anatomy and Physiology	ANATPHYS	1
13020700	Medical Microbiology	MICRO	1
13020800	Pathophysiology	PATHO	1
13020900	World Health Research	WORLDHR	1
13020970	Mathematics for Medical Professionals	MTHMEDPR	1
Subchapter I. Hospitality and Tourism Career Cluster
13022650	Advanced Culinary Arts	ADCULART	2
13022700	Practicum in Culinary Arts (First Time Taken)	PRACCUL1	2
13022705	Practicum in Culinary Arts/Extended Practicum in Culinary Arts (First Time Taken)	EXPRCUL1	3
13022710	Practicum in Culinary Arts (Second Time Taken)	PRACCUL2	2
13022715	Practicum in Culinary Arts/Extended Practicum in Culinary Arts (Second Time Taken)	EXPRCUL2	3
13022800	Hospitality Services	HOSPSRVS	2
13022900	Practicum in Hospitality Services (First Time Taken)	PRACHOS1	2
13022905	Practicum in Hospitality Services/Extended Practicum in Hospitality Services (First Time Taken)	EXPRHOS1	3
13022910	Practicum in Hospitality Services (Second Time Taken)	PRACHOS2	2
13022915	Practicum in Hospitality Services/Extended Practicum in Hospitality Services (Second Time Taken)	EXPRHOS2	3
13023000	Food Science	FOODSCI	1
Subchapter J. Human Services Career Cluster
13024600	Counseling and Mental Health	COUNSMH	1
13024800	Child Guidance	CHILDGUI	2
13025000	Practicum in Human Services (First Time Taken)	PRACHUS1	2
13025005	Practicum in Human Services/Extended Practicum in Human Services (First Time Taken)	EXPRHUS1	3
13025010	Practicum in Human Services (Second Time Taken)	PRACHUS2	2
13025015	Practicum in Human Services/Extended Practicum in Human Services (Second Time Taken)	EXPRHUS2	3
13025300	Cosmetology II	COSMET2	2
13025310	Cosmetology II/Cosmetology II Lab Innovative	COSLAB2	3
Subchapter K. Information Technology Career Cluster
13027500	Computer Technician Practicum (First Time Taken)	COMPT1	2

13027505	Computer Technician Practicum/Extended Computer Technician Practicum (First Time Taken)	EXCOMPT1	3
13027510	Computer Technician Practicum (Second Time Taken)	COMPT2	2
13027515	Computer Technician Practicum/Extended Computer Technician Practicum (Second Time Taken)	EXCOMPT2	3
13027700	Computer Programming II	COMPPRO2	1
13028000	Practicum in Information Technology (First Time Taken)	PRACIT1	2
13028005	Practicum in Information Technology /Extended Practicum in Information Technology (First Time Taken)	EXPRIT1	3
13028010	Practicum in Information Technology (Second Time Taken)	PRACIT2	2
13028050	Practicum in Information Technology/Extended Practicum in Information Technology (Second Time Taken)	EXPRIT2	3
Subchapter L. Law, Public Safety, Corrections, and Security Career Cluster
13029400	Law Enforcement II	LAWENF2	1
13029500	Forensic Science	FORENSCI	1
13029600	Court Systems and Practices	COURTSP	1
13029700	Correctional Services	CORRSRVS	1
13029800	Federal Law Enforcement and Protective Services	FEDLEPS	1
13030000	Firefighter II	FIRE2	3
13030100	Practicum in Law, Public Safety, Corrections, and Security (First Time Taken)	PRACLPS1	2
13030105	Practicum in Law, Public Safety, Corrections, and Security/Extended Practicum in Law, Public Safety, Corrections, and Security (First Time Taken)	EXPRLPS1	3
13030110	Practicum in Law, Public Safety, Corrections, and Security (Second Time Taken)	PRACLPS2	2
13030115	Practicum in Law, Public Safety, Corrections, and Security/Extended Practicum in Law, Public Safety, Corrections, and Security (Second Time Taken)	EXPRLPS2	3
Subchapter M. Manufacturing Career Cluster
13032400	Welding II	WELD2	2
13032410	Welding II/Welding II Lab	WELDLAB2	3

13032600	Precision Metal Manufacturing II	PREMMAN2	2
13032610	Precision Metal Manufacturing II/Precision Metal Manufacturing II Lab	PRMMLAB2	3
13032660	Diversified Manufacturing II	DIMANU2	1
13032800	Metal Fabrication and Machining II	MTFBMCH2	2
13032950	Manufacturing Engineering Technology II	MANENGT2	1
13033000	Practicum in Manufacturing (First Time Taken)	PRACMAN1	2
13033005	Practicum in Manufacturing/Extended Practicum in Manufacturing (First Time Taken)	EXPRMAN1	3
13033010	Practicum in Manufacturing (Second Time Taken)	PRACMAN2	2
13033015	Practicum in Manufacturing/Extended Practicum in Manufacturing (Second Time Taken)	EXPRMAN2	3
Subchapter N. Marketing Career Cluster			
13034700	Marketing Dynamics	ADVMKTG	2
13034800	Practicum in Marketing Dynamics	PRACMKT1	2
13034805	Practicum in Marketing/Extended Practicum in Marketing (First Time Taken)	EXPRMKT1	3
13034810	Practicum in Marketing Dynamics II	PRACMKT2	2
13034815	Practicum in Marketing/Extended Practicum in Marketing (Second Time Taken)	EXPRMKT2	3
Subchapter O. Science, Technology, Engineering, and Mathematics Career Cluster			
13036450	Biotechnology II	BIOTECH2	1
13036600	Engineering Design and Presentation II	ENGDSPR2	2
13036700	Engineering Mathematics	ENGMATH	1
13036900	Solid State Electronics	SOSTELEC	1
13037050	Robotics II	ROBOTIC2	1
13037300	Engineering Design and Problem Solving	ENGDPRS	1
13037400	Practicum in Science, Technology, Engineering, and Mathematics (First Time Taken)	PRCSTEM1	2
13037405	Practicum in Science, Technology, Engineering, and Mathematics/Extended Practicum in Science, Technology, Engineering, and Mathematics (First Time Taken)	EXPRSTEM1	3
13037410	Practicum in Science, Technology, Engineering, and Mathematics (Second Time Taken)	PRCSTEM2	2

13037415	Practicum in Science, Technology, Engineering, and Mathematics/Extended Practicum in Science, Technology, Engineering, and Mathematics (Second Time Taken)	EXPRSTEM2	3
13037500	Engineering Science	ENGSCIEN	1
Subchapter P. Transportation, Distribution, and Logistics Career Cluster			
13039400	Aircraft Airframe Technology	AIRAFTEC	2
13039410	Aircraft Airframe Technology/Advanced Transportation Systems Laboratory	AIRAFLAB	3
13039500	Aircraft Powerplant Technology	AIRPPTEC	2
13039510	Aircraft Powerplant Technology/Advanced Transportation Systems Laboratory	AIRPPLAB	3
13039700	Automotive Technology II: Automotive Service	AUTOTEC2	2
13039710	Automotive Technology II: Automotive Service/Advanced Transportation Systems Laboratory	AUTOLAB2	3
13039900	Paint and Refinishing	PAINTREF	2
13039910	Paint and Refinishing/Advanced Transportation Systems Laboratory	PTREFLAB	3
13040100	Small Engine Technology II	SMENTEC2	2
13040160	Diesel Equipment Technology II	DIEQTEC2	2
13040170	Diesel Equipment Technology II/Advanced Transportation Systems Laboratory	DIEQLAB2	3
13040450	Practicum in Transportation Systems (First Time Taken)	PRACTRS1	2
13040455	Practicum in Transportation Systems/Extended Practicum in Transportation Systems (First Time Taken)	EXPRTRS1	3
13040460	Practicum in Transportation Systems (Second Time Taken)	PRACTRS2	2
13040465	Practicum in Transportation Systems/Extended Practicum in Transportation Systems (Second Time Taken)	EXPRTRS2	3
13040470	Practicum in Distribution and Logistics (First Time Taken)	PRACDLG1	2
13040475	Practicum in Distribution and Logistics/Extended Practicum in Distribution and Logistics (First Time Taken)	EXPRDLG1	3
13040480	Practicum in Distribution and Logistics (Second Time Taken)	PRACDLG2	2

13040485	Practicum in Distribution and Logistics/Extended Practicum in Distribution and Logistics (Second Time Taken)	EXPRDLG2	3