TECHNICAL SYSTEMS EDUCATION
STEM CLUSTER
CAREER CLUSTER TECHNOLOGIES EQUIPMENT LIST

Equipment w/quantities	Career Cluster Technologies I	Career Cluster Technologies II	Cost Per Low	Cost Per High	Total Low	Total High
Office, Chairs/Stools	24	24	75	100	1800	2400
Safety, Safety Glasses	24	24	5	10	120	240
Drafting, Scales Architect	12	12	4	48		
Drafting, Scales Engineer	4	4	4	16		
Drafting, Scales Metric	4	4	4	16		
Drafting, Tool Kit/Compass/Protractor/Board/T-Square	12	12	17	50	204	600
Hand-tool, Knife, Hobby, Pencil type	12	12	5	60		
Computers w/ Monitors Capable of Running Industry Standard Software	10	10	500	1500	5000	15000
Office, Computer Work Stations/Tables w/wire management system	10	10	500	1000	5000	6000
Computer peripheral, Surge protectors	6	6	10	20	60	120
Hand-tool, File, Rasp/Flat/Double Cut/Card (1 set of each)	6	6	40	240		
Hand-tool, Metal Rule	6	6	5	?		
Hand-tool, Tape Measure	6	6	8	20	48	?
Lab equipment, Stopwatch	6	6	5	30		
Hand-tool, Hammer, Ball Peen	2	2	15	30		
Hand-tool, Hammer, Claw	2	2	15	30		
Hand-tool, Hammer, Soft Face	2	2	15	30		
Hand-tool, Hex Wrench Set	2	2	40	100	80	20
Hand-tool, Knife, Utility	2	2	5	10	10	20
Hand-tool, Pliers, Diagonal Cutting	2	2	8	20	16	40
Hand-tool, Pliers, Groove Joint/Needle Nose	2	2	8	20	16	40
Hand-tool, Pliers, Lineman	2	2	8	20	16	40
Hand-tool, Rivet Tool	2	2	20	40		
Hand-tool, Screwdriver Set	2	2	50	100		
Hand-tool, Wire Stripper/Crimper	2	2	8	20	16	40
Precision Measurement, Calipers Vernier	2	2	75	150		
Precision Measurement, Dial Indicator	2	2				
Precision Measurement, Electronic, Digital Multimeter	2	2	50	200	?	400
Precision Measurement, Outside Micrometer	2	2	30	150	60	300
Storage, Lockable Storage/Supply	2	2	200	400	400	800
Computer peripheral, Color Laser Jet Printer	1	1	300	500		
Computer peripheral, Internet Connection (Installed On All Computers)	1	1				
Computer peripheral, LCD Projector	1	1	250	500		
Computer peripheral, Scanner/Copier/Printer (Combo)	1	1	100	300		
Computer, Lap Top Capable of Running Industry Standard Software	1	1	500	1500		
Hand-tool, Drill Bit, Metal/Wood/Spade/Counter Sink (1 set of each)	1	1	75	150		
Hand-tool, Drivers, Nut, Set	1	1	70			
Hand-tool, Socket Set, English/Metric	1	1	50	150		
Hand-tool, Tin Snips, Right/Left/Straight (1 set of each)	1	1	40	60		
Instructional Technology, CD/DVD Player	1	1	100	250		

Item						
Instructional Technology, Digital Point and Shoot Camera (4 megapixel +)	1	1	75	200		
Instructional Technology, Television (minimum 40")	1	1	400	1000		
Office, Desk, Teacher	1	1	300	500		
Office, Hole Punch	1	1	20			
Office, Locking File Cabinet	1	1	400	500		
Office, Telephone	1	1				
Portable Power, Belt Sander	1	1	150	300		
Portable Power, Circular Saw	1	1	150	300		
Portable Power, Drill	1	1	100	300		
Portable Power, Jig/Scroll Saw	1	1	100	300		
Portable Power, Router	1	1	200	300		
Precision Measurement, Electronic, Gram Scales	1	1	50	100		
Safety, Eyewear Sterilization Cabinet	1	1	50	200		
Safety, First Aid Kit	1	1	100			
Software, Industry standard, Desktop Publishing (Installed On All Computers/Site License)	1	1	100	1200		
Software, Industry standard, Presentation (Installed On All Computers/Site License)	1	1	100	1200		
Software, Industry standard, Word Processing (Installed On All Computers/Site License)	1	1	100	1200		
Stationary Power, Band Saw	1	1	200	1000		
Stationary Power, Drill Press	1	1	200	1500		
OPTIONAL						
Finishing, Spray Booth, Small Portable						
Hand tool, Vice, Drill Press/Machinist/Pipe						
Hand-tool, Bit Set, Router/Shaper/Panel						
Hand-tool, Brush, Wire/Nylon/Natural Bristle						
Hand-tool, Builders Level w/Rod & Tripod						
Hand-tool, Chalk line						
Hand-tool, Chipping hammer						
Hand-tool, Chisels, Cold/Wood						
Hand-tool, Clamp, Bar/"C"/Spring/Hand Screw						
Hand-tool, Drivers, Torx						
Hand-tool, Feeler gauge						
Hand-tool, Gun, Heat/Stripping/Hot Glue						
Hand-tool, Hammer, Sledge						
Hand-tool, Level, Mason/Laser/Torpedo/Cabinet						
Hand-tool, Mallet, Rubber/Wooden/Leather						
Hand-tool, Marking Gauge						
Hand-tool, Nail Sets						
Hand-tool, Pipe Wrench/Reamer						
Hand-tool, Plane, Hand/Block/Rabbet/Cabinet						
Hand-tool, Pliers, Front Cut						
Hand-tool, Pliers, Locking/Crimping/Slip Joint						
Hand-tool, Propane Torch/Soldering Set						
Hand-tool, Punch, Center/Drift/Peening						
Hand-tool, PVC, Cutter/Reamer						
Hand-tool, Saw, Rip/Crosscut/Dovetail/Miter/Hack						
Hand-tool, Scissors						
Hand-tool, Shovel, Round Point/Square Point/Post						
Hand-tool, Shureform						
Hand-tool, Soldering Iron/Heat Sinks						
Hand-tool, Square, Framing/Speed/Tri/Combo						
Hand-tool, Tap and Die Set						
Hand-tool, Tongs						
Hand-tool, Wheelbarrow/Cart/Wagon						
Hand-tool, Wrench, Box/Combination/Torque						
Instructional Technology, 3-D Printer/Prototyper						
Instructional Technology, Camera Tripod						

Instructional Technology, Computer Interactive Whiteboard						
Instructional Technology, Digital Video Camera						
Instructional Technology, GPS Handheld						
Instructional Technology, Head Phones						
Instructional Technology, Opaque Projector						
Instructional Technology, Projection Screen						
Instructional Technology, Wide Format Printer (24")						
Lab equipment, Beaker						
Lab equipment, Calorimeter						
Lab equipment, Clay Modeling Table						
Lab equipment, Compass						
Lab equipment, Dynamometer						
Lab equipment, Fan						
Lab equipment, Graduated Cylinder						
Lab equipment, Heat Pulser						
Lab equipment, Hot Plate/Burner						
Lab equipment, Hydrometer/Hygrometer						
Lab equipment, Immersion Heater						
Lab equipment, Microscope/Magnifying Lens						
Lab equipment, Newton Spring Scale						
Lab equipment, Physics Air Track and Accessories						
Lab equipment, Prism/Mirror Set						
Lab equipment, Pulley/Gear						
Lab equipment, Signal Generator						
Lab equipment, Solar Cell						
Lab equipment, Spring Scale						
Lab equipment, Spring Test Assembly						
Lab equipment, Weight set and holders						
Module, Alternative Energy Sources	1	1				
Module, CO2 Dragsters/Transportation Modeling	1	1				
Module, Desktop Publishing	1	1				
Module, Electrical Systems/ Electronics	1	1				
Module, Rocketry/Aerospace	1	1				
Module, Structural Engineering	1	1				
Module, 2D/3D Modeling						
Module, Aerodynamics/Hydrodynamics						
Module, Agriculture Technology						
Module, Aquaculture/Hydroponics						
Module, Architectural/Mechanical Drafting, Manual						
Module, Artificial Intelligence						
Module, Aviation/Air Transportation						
Module, Biotechnology/Genetics/Biomedical						
Module, Broadcasting/Communications						
Module, CNC Pneumatics						
Module, Computer Aided Drafting (CAD)						
Module, Computer Aided Machining (CAM)						
Module, Computer Aided Sign Making						
Module, Computer Animation/Visualization						
Module, Computer Applications/Software Applications						
Module, Computer Construction/Repair						
Module, Computer Networks						
Module, Computer Numeric Control (CNC), Lathe/Mill						
Module, Computer Problem Solving						
Module, Construction Tech., Residential/Commercial						
Module, Control Technology						
Module, Conveyors & Sensors						
Module, Digital Audio/Music						
Module, Digital Design						
Module, Digital Manufacturing						

Module, Digital Photography/Video						
Module, Drafting, Sketching/Instrument						
Module, Electromagnetism/Magnetism						
Module, Environmental Science						
Module, Global Information Systems						
Module, Global Positioning Systems						
Module, Hydraulics						
Module, Interactive Multimedia						
Module, Internet Resources						
Module, Landscape Design						
Module, Lasers/Fiber Optics						
Module, Machine Vision						
Module, Manufacturing/Automation						
Module, Materials and Processes						
Module, Materials Properties/Testing						
Module, Mechanisms/Mechanical Systems						
Module, Medical Technologies						
Module, Meteorology/Weather						
Module, Microprocessors						
Module, Multimedia Technologies						
Module, Natural Resources						
Module, Optics						
Module, Physics						
Module, Plant Science						
Module, Plastics Technologies						
Module, Pneumatics						
Module, Power Mechanics/Small Engines						
Module, Precision Measurement						
Module, Process Control						
Module, Programmable Logic Circuits						
Module, Programming Theory						
Module, Quality Control						
Module, Radio/Audio Broadcasting/Communications						
Module, Research and Design						
Module, Residential Plumbing						
Module, Residential Wiring						
Module, Robotics						
Module, Semiconductors						
Module, Sensors						
Module, Solar Energy						
Module, Telecommunications						
Module, Thermodynamics						
Module, Transportation Systems						
Module, Video Production/Editing						
Module, Web Page Design						
Module, Welding						
Module, Wind Energy						
Module, Writing & Research						
Office, CD/DVD Storage case						
Office, Desk, Student						
Office, FAX Machine						
Office, Photo Copier						
Office, Stapler						
Office, Tack Board						
Office, Waste Basket						
Portable Power Supply, AC/DC Low voltage						
Portable Power, Air Compressor						
Portable Power, Air hose						
Portable Power, Air regulator						

Portable Power, Angle Grinder						
Portable Power, Finish Sander						
Portable Power, Heat Strip						
Portable Power, Miter Saw						
Portable Power, Pipe Die Set						
Portable Power, Pneumatic Finish Nail Gun						
Portable Power, Pneumatic Framing Nail Gun						
Portable Power, Wet/Dry Vacuum						
Precision Measurement, Engineering transit with rod/tripod						
Precision Measurement, Gauge blocks						
Precision Measurement, Hardness Tester						
Precision Measurement, Oscilloscope						
Precision Measurement, Set (complete)						
Precision Measurement, Thermometer						
Safety, Face shield						
Safety, Hard Hat						
Safety, Ladder/Scaffolding						
Sensor, Infrared						
Sensor, Laser						
Sensor, Magnetic						
Sensor, Motion						
Sensor, Photo/Light						
Sensor, Pressure						
Sensor, Proximity						
Sensor, Sonic						
Sensor, Thermal						
Sensor, Vernier Force						
Sensor, Weight/Strain						
Software, Industry standard, Antivirus						
Software, Industry standard, Computer Aided Drafting						
Software, Industry standard, Computer Aided Machining						
Software, Industry standard, Photo Editing						
Software, Industry standard, Physics Logging						
Stationary Power, CNC Lathe						
Stationary Power, CNC Mill						
Stationary Power, CNC Router						
Stationary Power, Miter Saw						
Stationary Power, Pedestal Grinder/Buffer						
Stationary Power, Planer						
Stationary Power, Radial-arm Saw						
Stationary Power, Table Saw						
Stationary, Box and Pan Brake						
Stationary, Metal Shear						
Storage, Flammable Storage Cabinet						
Welding, Gloves/Jacket/Apron						
Welding, Hood/Goggles/Safety Glasses						
Welding, Metal Inert Gas Welder (MIG)						
Welding, Resistance Electric Spot						
Work bench						