

Industrial Maintenance & Mechatronics								
Course	Books	Materials/ Supplies	Tools	Clothing	Board Exams/ Other	Quarter Total	Notes to Students	
Quarter One								
AMATH 111 * Applied Technical Math	\$228.00					\$228.00		
CMST& 210 * Interpersonal Communications	\$13.00					\$13.00		
EMTEC 105 Trade Safety	-					\$0.00	cost	
EMTEC 125 Applied Mechanics	-					\$0.00	Pair of Safety Glasses - (Required for every lab!)	\$5
EMTEC 237 Computerized Maintenance & Management Systems 3 credits	-					\$0.00	Pair of durable gloves - snug fitting	\$10
Totals	\$241	\$0	\$0	\$0	\$0	\$241	Rolling Tool Box (4-drawer minimum)	\$120
Quarter Two								
AENGL 100 * Applied English	\$8.25					\$8.25	Scientific Calculator	\$20
EMTEC 121 Fundamentals Of Hydraulic & Pneumatics	-					\$0.00	Standard Combination wrench set 5/16" to 1-1/16"	\$25
EMTEC 126 Engineering Graphics	-					\$0.00	3/8" Drive & Socket Set	\$25
EMTEC 131 Rigging	-					\$0.00	Small Ball Pein Hammer	\$18
EMTEC 231 Bearings & Drives	-					\$0.00	Engineer's Hammer	\$25
Totals	\$8	\$0	\$0	\$0	\$0	\$8	Claw Hammer	\$15
Quarter Three								
EMTEC 123 Hydraulics & Pneumatics Circuits	-					\$0.00	Center Punch	\$15
EMTEC 180 Manufacturing Computer Applications	-					\$0.00	8" Adjustable Wrench	\$15
EMTEC 232 Drive Alignment-Conveyors & Machining Systems	-					\$0.00	12" Adjustable Wrench	\$15
EMTEC 234 Valves, Pumps & Traps	-					\$0.00	T-Bar Allen Wrench set – Standard	\$40
Totals	\$0	\$0	\$0	\$0	\$0	\$0	T-Bar Allen Wrench set – Metric	\$40
Quarter Four								
EMTEC 110 DC Circuits	-					\$0.00	Screwdriver set	\$25
EMTEC 210 AC Circuits	-					\$0.00	1/4" Nut Driver	\$40
EMTEC 218 Introduction to National Electrical Code	-					\$0.00	Pliers (set must include standard, lineman's, dikes, and needle)	\$30
EMTEC 225 Solid State Components	-					\$0.00	10" or 12" Pump Pliers (Tongue-and-Groove)	\$18
Totals	\$0	\$0	\$0	\$0	\$0	\$0	Wire Strippers 10AWG - 18AWG	\$10
Quarter Five								
EMTEC 205 Programmable Logic Controllers	-					\$0.00	Crimping for Non-insulated & Insulated Connectors	\$30
EMTEC 211 Electrical Controls I	-					\$0.00	25' Tape measure	\$10
EMTEC 217 Instrumentation & Controls	-					\$0.00	6" Dial Caliper	\$25
EMTEC 215 Programmable Logic Controllers II	-					\$0.00	6" Steel Rule	\$5
Totals	\$0	\$0	\$0	\$0	\$0	\$0	Combination Square	\$12
Quarter Six								
EMTEC 133 Introduction to Machinery Skills	-					\$0.00	Set of Feeler Gauges	\$12
EMTEC 220 Micro-Controllers	-					\$0.00	Welding Helmet	\$35
EMTEC 230 Problem Solving for Manufacturing & the Trades	-					\$0.00	Welding Gauntlet Gloves	\$18
WLD 173 Basic Welding	-					\$0.00	Welding Sleeves	\$75
EMTEC 260 Automated Manufacturing Systems	-					\$0.00	Wire Brush	\$5
Totals	\$0	\$0	\$0	\$0	\$0	\$0	Torch Tip Cleaner	\$7
Grand Total All	\$249	\$0	\$0	\$0	\$0	\$249	Chipping Hammer	\$8
							#5 Shade Cutting Glasses (or Goggles)	\$10
							Hack Saw w/blade with 18, 24, & 32 Tooth Blades	\$8
							Flat Bastard Metal File	\$12
							Round Bastard Metal File	\$12
							Magnetic Torpedo Level	\$20
							1/8" – 7/16" Drill Bit Index	\$20
							Small Alligator Clip Test Lead (set of 12)	\$5
							Soldering kit	\$45
							Electrical test kit (multimeter specifications below)	\$40
							Ugly's Electrical Reference	\$15
							Machinery's Handbook	\$75
							Audel Millwrights and Mechanics Guide	\$55
							Dremmel Kit	\$75
							Laptop with Internet Capability	\$400
							total	\$1,545