

**KELLOGG COMMUNITY COLLEGE**  
**INDUSTRIAL ELECTRICITY AND ELECTRONICS**  
**COURSE OPTIONS**

**FALL 2024**

Certificate: 30 credits

Associate in Applied Science: 60 credits (combination of industrial electricity/electronics, technical electives, and general education credit requirements)

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Module Subject Code and Number	Module Title	Credit	Contact Hours	Lab Fees	Tuition	Total Cost
<input type="checkbox"/> INEL C910-7201	ELECTRIC ELECTRONICS ORIENTAT The orientation must be completed at the RMTC in Battle Creek prior to registration. Please call 269.965.4137 to verify available orientation times.		2	0.00	0.00	0.00
<b>UNIT 05 ELECTRICAL SAFETY</b>						
<input type="checkbox"/> INEL 05010-7201	ELECTRICAL SAFETY	0.17	4	3.00	46.50	49.50
<b>UNIT TOTAL</b>		<b>0.17</b>	<b>4</b>	<b>3.00</b>	<b>46.50</b>	<b>49.50</b>
<b>UNIT 10 MATHEMATICS FOR ELECTRICIANS</b>						
<input type="checkbox"/> INEL 10010-7201	ELECTRICAL MATH 1	0.08	2	13.00	21.88	34.88
<input type="checkbox"/> INEL 10020-7201	ELECTRICAL MATH 2	0.25	6	3.00	68.38	71.38
<input type="checkbox"/> INEL 10030-7201	ELECTRICAL MATH 3	0.25	6	3.00	68.38	71.38
<b>UNIT TOTAL</b>		<b>0.58</b>	<b>14</b>	<b>19.00</b>	<b>158.64</b>	<b>177.64</b>
<b>UNIT 15 ELECTRICAL THEORY</b>						
<input type="checkbox"/> INEL 15010-7201	ELECTRICAL THEORY	0.25	6	23.00	68.38	91.38
<input type="checkbox"/> INEL 15020-7201	STATIC ELECTRICITY	0.25	6	23.00	68.38	91.38
<input type="checkbox"/> INEL 15030-7201	CALCULATORS AND ELECTRONICS	0.25	6	23.00	68.38	91.38
<input type="checkbox"/> INEL 15040-7201	DEVICES AND SYMBOLS	0.25	6	23.00	68.38	91.38
<input type="checkbox"/> INEL 15050-7201	MULTIMETER	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 15060-7201	OHM'S LAW	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 15070-7201	SERIES CIRCUITS	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 15080-7201	PARALLEL CIRCUITS	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 15090-7201	COMBINATION CIRCUITS	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 15100-7201	MAGNETISM	0.25	6	23.00	68.38	91.38
<input type="checkbox"/> INEL 15110-7201	ALTERNATING CURRENT	0.25	6	23.00	68.38	91.38
<input type="checkbox"/> INEL 15120-7201	OSCILLOSCOPE	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 15130-7201	INDUCTANCE	0.42	10	23.00	114.87	137.87
<input type="checkbox"/> INEL 15140-7201	CAPACITANCE	0.42	10	23.00	114.87	137.87
<input type="checkbox"/> INEL 15150-7201	RLC CIRCUITS	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 15160-7201	CONDUCTION	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 15170-7201	THEORY OVERVIEW	0.21	5	23.00	57.44	80.44
<b>UNIT TOTAL</b>		<b>5.19</b>	<b>125</b>	<b>391.00</b>	<b>1419.54</b>	<b>1810.54</b>
<b>UNIT 20 ELECTRICAL MOTOR CONTROLS 1</b>						
<input type="checkbox"/> INEL 20010-7201	ELECTRICAL MOTOR CONTROLS	0.42	10	23.00	114.87	137.87
<input type="checkbox"/> INEL 20020-7201	MANUAL MOTOR CONTROLS	0.50	12	23.00	136.75	159.75
<input type="checkbox"/> INEL 20030-7201	CONTROL TRANSFORMERS	0.42	10	23.00	114.87	137.87
<input type="checkbox"/> INEL 20040-7201	CONTROL LADDER LOGIC	0.67	16	23.00	183.25	206.25
<input type="checkbox"/> INEL 20050-7201	CONTROL RELAYS MOTOR STARTERS	0.50	12	23.00	136.75	159.75
<input type="checkbox"/> INEL 20060-7201	INTRODUCTION TROUBLESHOOTING	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 20070-7201	SYSTEMS TROUBLESHOOTING	0.42	10	23.00	114.87	137.87
<input type="checkbox"/> INEL 20080-7201	AUTOMATIC INPUT DEVICES	0.42	10	23.00	114.87	137.87
<input type="checkbox"/> INEL 20090-7201	ELECTRONIC SENSORS	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 20100-7201	BASIC TIMER CONTROL	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 20110-7201	TIMERS AND COUNTERS	0.25	6	23.00	68.38	91.38
<b>UNIT TOTAL</b>		<b>4.59</b>	<b>110</b>	<b>253.00</b>	<b>1255.39</b>	<b>1508.39</b>
<b>UNIT 25 ELECTRICAL MOTOR CONTROLS 2</b>						
<input type="checkbox"/> INEL 25010-7201	REVERSING MOTOR CONTROL	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 25020-7201	BRAKING METHODS	0.42	10	23.00	114.87	137.87

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<b>UNIT 25 ELECTRICAL MOTOR CONTROLS 2 (CONTINUED)</b>						
<input type="checkbox"/> INEL 25030-7201	REDUCED VOLTAGE STARTING	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 25040-7201	INTRO FREQUENCY DRIVES (AC)	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 25050-7201	AC DRIVES SPEED TORQUE CNT	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 25060-7201	AC DRIVES ACCEL AND DECEL	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 25070-7201	AC DRIVES TROUBLESHOOTING	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 25080-7201	SCR MOTOR CONTROL	0.42	10	23.00	114.87	137.87
<b>UNIT TOTAL</b>		<b>2.82</b>	<b>68</b>	<b>184.00</b>	<b>771.30</b>	<b>955.30</b>
<b>UNIT 30 ROTATING ELECTRIC MACHINES</b>						
<input type="checkbox"/> INEL 30010-7201	DC SERIES MOTORS	0.25	6	23.00	68.38	91.38
<input type="checkbox"/> INEL 30020-7201	DC SHUNT AND COMPOUND MOTORS	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 30030-7201	MOTOR SPEED AND TORQUE	0.33	8	23.00	90.26	113.26
<input type="checkbox"/> INEL 30040-7201	MOTOR PERFORMANCE	0.25	6	23.00	68.38	91.38
<input type="checkbox"/> INEL 30050-7201	SPLIT PHASE MOTORS	0.25	6	23.00	68.38	91.38
<input type="checkbox"/> INEL 30060-7201	CAPACITOR START MOTORS	0.25	6	23.00	68.38	91.38
<input type="checkbox"/> INEL 30070-7201	PERMANENT CAPACITOR MOTORS	0.25	6	23.00	68.38	91.38
<input type="checkbox"/> INEL 30080-7201	THREE PHASE MOTORS	0.33	8	21.00	90.26	111.26
<b>UNIT TOTAL</b>		<b>2.24</b>	<b>54</b>	<b>182.00</b>	<b>612.68</b>	<b>794.68</b>
<b>UNIT 35 NATIONAL ELECTRICAL CODE (NEC)</b>						
<input type="checkbox"/> INEL 35010-7201	GENERAL WIRING FUNDAMENTALS	0.25	6	17.00	68.38	85.38
<input type="checkbox"/> INEL 35020-7201	WIRE RACEWAY AND BOX SIZING	0.33	8	17.00	90.26	107.26
<input type="checkbox"/> INEL 35030-7201	BRANCH CIRCUITS	0.33	8	17.00	90.26	107.26
<input type="checkbox"/> INEL 35040-7201	SERVICE FEEDER CALCULATIONS	0.25	6	17.00	68.38	85.38
<input type="checkbox"/> INEL 35050-7201	GROUNDING AND BONDING	0.33	8	17.00	90.26	107.26
<input type="checkbox"/> INEL 35060-7201	OVERCURRENT PROTECTION	0.33	8	17.00	90.26	107.26
<input type="checkbox"/> INEL 35070-7201	MOTOR CIRCUIT WIRING	0.25	6	17.00	68.38	85.38
<input type="checkbox"/> INEL 35080-7201	TRANSFORMERS	0.25	6	17.00	68.38	85.38
<input type="checkbox"/> INEL 35090-7201	GENERAL HAZARDOUS LOCATIONS	0.25	6	17.00	68.38	85.38
<input type="checkbox"/> INEL 35100-7201	HEALTH CARE FACILITIES	0.25	6	17.00	68.38	85.38
<input type="checkbox"/> INEL 35110-7201	EMERGENCY POWER SYSTEMS	0.33	8	17.00	90.26	107.26
<input type="checkbox"/> INEL 35120-7201	INDUSTRIAL APPLICATIONS	0.33	8	17.00	90.26	107.26
<input type="checkbox"/> INEL 35130-7201	SPECIAL APPLICATION WIRING	0.25	6	17.00	68.38	85.38
<input type="checkbox"/> INEL 35140-7201	NEC REVIEW	0.17	4	17.00	46.50	63.50
<b>UNIT TOTAL</b>		<b>3.90</b>	<b>94</b>	<b>238.00</b>	<b>1066.72</b>	<b>1304.72</b>
<b>UNIT 40 POWER DISTRIBUTION SYSTEMS</b>						
<input type="checkbox"/> INEL 40010-7201	POWER GENERATION DISTRIBUTION	0.33	8	39.00	90.26	129.26
<input type="checkbox"/> INEL 40020-7201	ELECTRICAL WIRING TECHNIQUES	0.33	8	39.00	90.26	129.26
<input type="checkbox"/> INEL 40030-7201	WIRING SYSTEM INSTALLATION	0.42	10	39.00	114.87	153.87
<input type="checkbox"/> INEL 40040-7201	INTRODUCTION TO RACEWAYS	0.42	10	39.00	114.87	153.87
<input type="checkbox"/> INEL 40050-7201	BASIC CONDUIT BENDING	0.25	6	39.00	68.38	107.38
<input type="checkbox"/> INEL 40060-7201	ADVANCED RACEWAYS	0.25	6	39.00	68.38	107.38
<input type="checkbox"/> INEL 40070-7201	CONDUCTOR OVERCURRENT PROTECT	0.25	6	39.00	68.38	107.38
<input type="checkbox"/> INEL 40080-7201	CONDUIT SIZING WIRE PULLING	0.33	8	39.00	90.26	129.26
<b>UNIT TOTAL</b>		<b>2.58</b>	<b>62</b>	<b>312.00</b>	<b>705.66</b>	<b>1017.66</b>
<b>UNIT 45 FACILITY MAINTENANCE</b>						
<input type="checkbox"/> INEL 45010-7201	PLANS AND SITE WORK	0.25	6	30.00	68.38	98.38
<input type="checkbox"/> INEL 45020-7201	INDUSTRIAL POWER SYSTEMS	0.42	10	30.00	114.87	144.87
<input type="checkbox"/> INEL 45030-7201	SIGNALING SYSTEMS	0.25	6	30.00	68.38	98.38

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<b>UNIT 45 FACILITY MAINTENANCE (CONTINUED)</b>						
<input type="checkbox"/> INEL 45040-7201	MOTORS CONTROLLERS INSTALLATIO	0.33	8	30.00	90.26	120.26
<input type="checkbox"/> INEL 45050-7201	SPECIAL EQUIPMENT & HVAC	0.33	8	30.00	90.26	120.26
<input type="checkbox"/> INEL 45060-7201	INDUSTRIAL HAZARDOUS LOCATIONS	0.25	6	30.00	68.38	98.38
<input type="checkbox"/> INEL 45070-7201	SINGLE PHASE TRANSFORMERS	0.33	8	30.00	90.26	120.26
<input type="checkbox"/> INEL 45080-7201	3 PHASE TRANSFORMERS	0.50	12	30.00	136.75	166.75
<input type="checkbox"/> INEL 45090-7201	NEC TRANSFORMER REQUIREMENTS	0.25	6	30.00	68.38	98.38
<input type="checkbox"/> INEL 45100-7201	EMERGENCY ELECTRICAL SYSTEMS	0.25	6	30.00	68.38	98.38
<input type="checkbox"/> INEL 45110-7201	CLASS B FIRE ALARM SYSTEMS	0.33	8	30.00	90.26	120.26
<input type="checkbox"/> INEL 45115-7201	ADVANCED FIRE ALARM SYSTEMS	0.42	10	15.00	114.87	129.87
<b>UNIT TOTAL</b>		<b>3.91</b>	<b>94</b>	<b>345.00</b>	<b>1069.43</b>	<b>1414.43</b>
<b>UNIT 50 ELECTRICAL CONTROL WIRING</b>						
<input type="checkbox"/> INEL 50010-7201	ELECTRICAL CONTROL WIRING	0.42	10	65.00	114.87	179.87
<input type="checkbox"/> INEL 50020-7201	ELECTRICAL CONTROL SYSTEMS	1.00	24	75.00	273.50	348.50
<b>UNIT TOTAL</b>		<b>1.42</b>	<b>34</b>	<b>140.00</b>	<b>388.37</b>	<b>528.37</b>
<b>UNIT 55 INDUSTRIAL ELECTRONICS</b>						
<input type="checkbox"/> INEL 55010-7201	USING THE OSCILLOSCOPE	0.67	16	21.00	183.25	204.25
<input type="checkbox"/> INEL 55020-7201	METERS FOR ELECTRONICS	0.33	8	21.00	90.26	111.26
<input type="checkbox"/> INEL 55030-7201	ELECTRONIC SOLDERING	0.25	6	21.00	68.38	89.38
<input type="checkbox"/> INEL 55040-7201	SOLDERING PRINTED CIRCUIT BOAR	0.25	6	21.00	68.38	89.38
<input type="checkbox"/> INEL 55050-7201	DIODES	0.25	6	21.00	68.38	89.38
<input type="checkbox"/> INEL 55060-7201	POWER SUPPLIES	0.50	12	21.00	136.75	157.75
<input type="checkbox"/> INEL 55070-7201	PHOTO DEVICES	0.33	8	21.00	90.26	111.26
<input type="checkbox"/> INEL 55080-7201	SOLID STATE DEVICES	0.83	20	21.00	227.01	248.01
<input type="checkbox"/> INEL 55090-7201	ELECTRONIC TIMING	0.33	8	21.00	90.26	111.26
<input type="checkbox"/> INEL 55100-7201	AMPLIFIERS	0.83	20	21.00	227.01	248.01
<input type="checkbox"/> INEL 55110-7201	DIGITAL LOGIC FUNDAMENTALS	0.50	12	21.00	136.75	157.75
<input type="checkbox"/> INEL 55120-7201	DIGITAL LOGIC APPLICATIONS	0.42	10	21.00	114.87	135.87
<input type="checkbox"/> INEL 55130-7201	PROXIMITY SWITCHING	0.17	4	21.00	46.50	67.50
<input type="checkbox"/> INEL 55140-7201	PHOTOELECTRIC DEVICES	0.17	4	21.00	46.50	67.50
<input type="checkbox"/> INEL 55150-7201	FIBER OPTIC FUNDAMENTALS	0.33	8	21.00	90.26	111.26
<input type="checkbox"/> INEL 55160-7201	FIBER OPTIC LAB	0.25	6	21.00	68.38	89.38
<b>UNIT TOTAL</b>		<b>6.41</b>	<b>154</b>	<b>336.00</b>	<b>1753.20</b>	<b>2089.20</b>
<b>UNIT 60 PROGRAM LOGIC CONTROLLERS 1</b>						
<input type="checkbox"/> INEL 60010-7201	INTRO PROGRAMMABLE CONTROLLERS	0.25	6	25.00	68.38	93.38
<input type="checkbox"/> INEL 60020-7201	BASIC PLC PROGRAMMING	0.50	12	25.00	136.75	161.75
<input type="checkbox"/> INEL 60030-7201	PLC MOTOR CONTROL	0.50	12	25.00	136.75	161.75
<input type="checkbox"/> INEL 60040-7201	DISCRETE I/O INTERFACING	0.33	8	25.00	90.26	115.26
<input type="checkbox"/> INEL 60050-7201	INTRO TO PLC TROUBLESHOOTING	0.33	8	25.00	90.26	115.26
<input type="checkbox"/> INEL 60060-7201	PLC SYSTEMS TROUBLESHOOTING	0.33	8	25.00	90.26	115.26
<b>UNIT TOTAL</b>		<b>2.24</b>	<b>54</b>	<b>150.00</b>	<b>612.66</b>	<b>762.66</b>
<b>UNIT 65 PROGRAM LOGIC CONTROLLERS 2</b>						
<input type="checkbox"/> INEL 65010-7201	EVENT SEQUENCING	0.33	8	25.00	90.26	115.26
<input type="checkbox"/> INEL 65020-7201	APPLICATION DEVELOPMENT	0.50	12	25.00	136.75	161.75
<input type="checkbox"/> INEL 65030-7201	PLC TIMER INSTRUCTIONS	0.50	12	25.00	136.75	161.75
<input type="checkbox"/> INEL 65040-7201	PLC COUNTER INSTRUCTIONS	0.50	12	25.00	136.75	161.75
<input type="checkbox"/> INEL 65050-7201	PROGRAM CONTROL INSTRUCTIONS	0.50	12	25.00	136.75	161.75
<input type="checkbox"/> INEL 65060-7201	MATH DATA MOVE INSTRUCTIONS	0.58	14	25.00	158.63	183.63

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<b>UNIT 65 PROGRAM LOGIC CONTROLLERS 2 (CONTINUED)</b>						
<b>UNIT TOTAL</b>		<b>2.91</b>	<b>70</b>	<b>150.00</b>	<b>795.89</b>	<b>945.89</b>
<b>UNIT 67 SIEMENS S7-300 PLCS</b>						
<input type="checkbox"/> INEL 67010-7201	SIEMENS 300 INTRO TO PLCS	0.50	12	17.00	136.75	153.75
<input type="checkbox"/> INEL 67020-7201	SIEMENS 300 BASIC PLC PROGRAM	0.50	12	17.00	136.75	153.75
<input type="checkbox"/> INEL 67030-7201	SIEMENS 300 PLC MOTOR CONTROL	0.50	12	17.00	136.75	153.75
<input type="checkbox"/> INEL 67040-7201	SIEMENS 300 IO INTERFACING	0.50	12	5.00	136.75	141.75
<input type="checkbox"/> INEL 67050-7201	SIEMENS 300 PLC TIMERS	0.50	12	5.00	136.75	141.75
<input type="checkbox"/> INEL 67060-7201	SIEMENS 300 PLC COUNTERS	0.50	12	5.00	136.75	141.75
<b>UNIT TOTAL</b>		<b>3.00</b>	<b>72</b>	<b>66.00</b>	<b>820.50</b>	<b>874.50</b>
<b>UNIT 75 INTRODUCTION TO CONTROL LOGIX</b>						
<input type="checkbox"/> INEL 75010-7201	INTRO TO COMPACT LOGIX PLCS	0.25	6	15.00	68.38	83.38
<input type="checkbox"/> INEL 75020-7201	CREATING RS LOGIX 5000 PROJEC	0.25	6	15.00	68.38	83.38
<input type="checkbox"/> INEL 75030-7201	ETHERNET COMMUNICATION PROTO	0.42	10	15.00	114.87	129.87
<input type="checkbox"/> INEL 75040-7201	CREATING RS LOGIX 5000 PROGRA	0.42	10	15.00	114.87	129.87
<input type="checkbox"/> INEL 75050-7201	TON TOF RTO COUNTER INSTRUCTI	0.42	10	15.00	114.87	129.87
<input type="checkbox"/> INEL 75060-7201	CU AND CD COUNTER INSTRUCTION	0.42	10	15.00	114.87	129.87
<b>UNIT TOTAL</b>		<b>2.18</b>	<b>52</b>	<b>90.00</b>	<b>596.24</b>	<b>686.24</b>
<b>UNIT 76 ADVANCED PROGRAMMING FOR CONTROL LOGIX</b>						
<input type="checkbox"/> INEL 76010-7201	INTRO TO PLC TROUBLESHOOTING	0.33	8	19.00	90.26	109.26
<input type="checkbox"/> INEL 76020-7201	PLC SYSTEMS TROUBLESHOOTING	0.33	8	19.00	90.26	109.26
<input type="checkbox"/> INEL 76030-7201	EVENT SEQUENCING	0.33	8	19.00	90.26	109.26
<input type="checkbox"/> INEL 76040-7201	APPLICATION DEVELOPMENT	0.50	12	19.00	136.75	155.75
<input type="checkbox"/> INEL 76050-7201	PROGRAM CONTROL INSTRUCTIONS	0.50	12	19.00	136.75	155.75
<input type="checkbox"/> INEL 76060-7201	MATH DATA MOVE INSTRUCTIONS	0.58	14	19.00	158.63	177.63
<b>UNIT TOTAL</b>		<b>2.57</b>	<b>62</b>	<b>114.00</b>	<b>702.91</b>	<b>816.91</b>
<b>UNIT 70 PANEL VIEW</b>						
<input type="checkbox"/> INEL 70010-7201	INTRODUCTION TO PANEL VIEW	0.17	4	10.00	46.50	56.50
<input type="checkbox"/> INEL 70020-7201	TERMINAL OVERVIEW	0.25	6	10.00	68.38	78.38
<input type="checkbox"/> INEL 70030-7201	WIRING AND SET UP	0.25	6	10.00	68.38	78.38
<input type="checkbox"/> INEL 70040-7201	TERMINAL CONFIGURATION	0.25	6	10.00	68.38	78.38
<input type="checkbox"/> INEL 70050-7201	TROUBLESHOOTING MAINTENANCE	0.25	6	10.00	68.38	78.38
<input type="checkbox"/> INEL 70060-7201	PROGRAMMING PANEL VIEW	0.83	20	10.00	227.01	294.44
<input type="checkbox"/> INEL 70070-7201	PANEL VIEW PLC APPLICATIONS	1.04	25	10.00	284.44	290.28
<input type="checkbox"/> INEL 70080-7201	PANEL VIEW PLC COMMUNICATION	0.21	5	10.00	57.44	67.44
<b>UNIT TOTAL</b>		<b>3.25</b>	<b>78</b>	<b>80.00</b>	<b>888.91</b>	<b>968.91</b>
<b>UNIT 80 MACHINE SAFETY CONTROLS</b>						
<input type="checkbox"/> INEL 80010-7201	INTRODUCTION MACHINE SAFETY	0.33	8	15.00	90.26	105.26
<input type="checkbox"/> INEL 80020-7201	LEVEL 1 MACHINE SAFETY	0.25	6	22.00	68.38	90.38
<input type="checkbox"/> INEL 80030-7201	LEVEL 2 MACHINE SAFETY	0.42	10	25.00	114.87	139.87
<input type="checkbox"/> INEL 80040-7201	LEVEL 3 MACHINE SAFETY	0.50	12	25.00	136.75	161.75
<input type="checkbox"/> INEL 80050-7201	MACHINE SURVEY	0.33	8	15.00	90.26	105.26
<b>UNIT TOTAL</b>		<b>1.83</b>	<b>44</b>	<b>102.00</b>	<b>500.52</b>	<b>602.52</b>

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Certificate: 30 credits

Associate in Applied Science: 60 credits (combination of industrial electricity/electronics, technical electives, and general education credit requirements)

All costs are subject to change without notice. Please call 269-965-4137 to verify.

Module Subject Code and Number	Module Title	Credit	Contact Hours	Lab Fees	Tuition	Total Cost
<b>UNIT 85      ROBOTICS PROGRAMMING AND MAINTENANCE</b>						
<input type="checkbox"/> INEL 85010-7201	ROBOTICS INTRODUCTION	0.67	16	29.00	183.25	212.25
<input type="checkbox"/> INEL 85020-7201	PROGRAMMING ROBOTICS	1.29	31	29.00	352.82	381.82
<input type="checkbox"/> INEL 85030-7201	PROGRAMMING ROBOTICS FANUC	0.75	18	103.00	205.13	308.13
<input type="checkbox"/> INEL 85040-7201	PROGRAMMING ROBO OFFLINE FANUC	0.58	14	3.00	158.63	161.63
<input type="checkbox"/> INEL 85050-7201	PROGRAMMING ROBOTICS MOTOMAN	1.67	40	140.00	456.75	596.75
<input type="checkbox"/> INEL 85060-7201	PROG ROBOTICS OFFL MOTOMAN	1.00	24	8.00	273.50	281.50
<input type="checkbox"/> INEL 85070-7201	PROGRAMMING ROBOTICS DENSO	0.42	10	3.00	114.87	117.87
<input type="checkbox"/> INEL 85080-7201	PRGM ROBOTICS OFFLINE DENSO	0.83	20	3.00	227.01	230.01
<input type="checkbox"/> INEL 85090-7201	MAINT PM TROUBLSHOOT ROBOTIC	1.04	25	43.00	284.44	327.44
<b>UNIT TOTAL</b>		<b>8.25</b>	<b>198</b>	<b>361.00</b>	<b>2256.40</b>	<b>2617.40</b>
<b>UNIT 95      MECHATRONICS</b>						
<input type="checkbox"/> INEL 95010-7201	MECHATRONICS AUTOMATION OPER	0.21	5	23.00	57.44	80.44
<input type="checkbox"/> INEL 95020-7201	MECHATRONICS BASIC COMP ADJ	0.21	5	23.00	57.44	80.44
<input type="checkbox"/> INEL 95030-7201	MECHATRONICS PICK PLACE FEED	0.21	5	23.00	57.44	80.44
<input type="checkbox"/> INEL 95040-7201	MECHATRONICS GAUGING	0.21	5	23.00	57.44	80.44
<input type="checkbox"/> INEL 95050-7201	MECHATRONICS INDEXING	0.21	5	23.00	57.44	80.44
<input type="checkbox"/> INEL 95060-7201	MECHATRONICS SORTING QUEUING	0.21	5	23.00	57.44	80.44
<input type="checkbox"/> INEL 95070-7201	MECHATRONICS SERVO ROBOTIC	0.21	5	23.00	57.44	80.44
<input type="checkbox"/> INEL 95080-7201	MECHATRONICS TORQUEING	0.21	5	23.00	57.44	80.44
<input type="checkbox"/> INEL 95090-7201	MECHATRONICS PARTS STORAGE	0.21	5	23.00	57.44	80.44
<input type="checkbox"/> INEL 95095-7201	MECHATRONICS STATION PROGRAM	0.21	5	13.00	57.44	70.44
<input type="checkbox"/> INEL 95100-7201	MECHATRONICS MULTI STATION CN	0.21	5	23.00	57.44	80.44
<b>UNIT TOTAL</b>		<b>2.31</b>	<b>55</b>	<b>243.00</b>	<b>631.84</b>	<b>874.84</b>
<b>TOTAL</b>		<b>62.35</b>	<b>1500</b>	<b>3759.00</b>	<b>17053.30</b>	<b>20812.30</b>

**ASSESSMENTS**

<input type="checkbox"/> *INEL C201-7201	SACA C-201 CERTIFICATION		4	108.00	0.00	108.00
<input type="checkbox"/> *INEL C202-7201	SACA C-202 CERTIFICATION		4	108.00	0.00	108.00
<input type="checkbox"/> *INEL C204-7201	SACA C-204 CERTIFICATION		4	108.00	0.00	108.00
<input type="checkbox"/> *INEL C207-7201	SACA C-207 CERTIFICATION		4	108.00	0.00	108.00
<input type="checkbox"/> *INEL C208-7201	SACA C-208 CERTIFICATION		4	108.00	0.00	108.00

**FOR OFFICE USE ONLY**

Instructor Approval \_\_\_\_\_ Date \_\_\_\_\_

Total Credit \_\_\_\_\_ Total Contact \_\_\_\_\_ Total Cost \_\_\_\_\_