

KELLOGG COMMUNITY COLLEGE
INDUSTRIAL ELECTRICITY AND ELECTRONICS
COURSE OPTIONS

SPRING 2022

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	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
UNIT 05 ELECTRICAL SAFETY						
<input type="checkbox"/> INEL 05010-7201	ELECTRICAL SAFETY	0.17	4	3.00	43.86	46.86
UNIT TOTAL		0.17	4	3.00	43.86	46.86
UNIT 10 MATHEMATICS FOR ELECTRICIANS						
<input type="checkbox"/> INEL 10010-7201	ELECTRICAL MATH 1	0.08	2	13.00	20.64	33.64
<input type="checkbox"/> INEL 10020-7201	ELECTRICAL MATH 2	0.25	6	3.00	64.50	67.50
<input type="checkbox"/> INEL 10030-7201	ELECTRICAL MATH 3	0.25	6	3.00	64.50	67.50
UNIT TOTAL		0.58	14	19.00	149.64	168.64
UNIT 15 ELECTRICAL THEORY						
<input type="checkbox"/> INEL 15010-7201	ELECTRICAL THEORY	0.25	6	23.00	64.50	87.50
<input type="checkbox"/> INEL 15020-7201	STATIC ELECTRICITY	0.25	6	23.00	64.50	87.50
<input type="checkbox"/> INEL 15030-7201	CALCULATORS AND ELECTRONICS	0.25	6	23.00	64.50	87.50
<input type="checkbox"/> INEL 15040-7201	DEVICES AND SYMBOLS	0.25	6	23.00	64.50	87.50
<input type="checkbox"/> INEL 15050-7201	MULTIMETER	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 15060-7201	OHM'S LAW	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 15070-7201	SERIES CIRCUITS	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 15080-7201	PARALLEL CIRCUITS	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 15090-7201	COMBINATION CIRCUITS	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 15100-7201	MAGNETISM	0.25	6	23.00	64.50	87.50
<input type="checkbox"/> INEL 15110-7201	ALTERNATING CURRENT	0.25	6	23.00	64.50	87.50
<input type="checkbox"/> INEL 15120-7201	OSCILLOSCOPE	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 15130-7201	INDUCTANCE	0.42	10	23.00	108.36	131.36
<input type="checkbox"/> INEL 15140-7201	CAPACITANCE	0.42	10	23.00	108.36	131.36
<input type="checkbox"/> INEL 15150-7201	RLC CIRCUITS	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 15160-7201	CONDUCTION	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 15170-7201	THEORY OVERVIEW	0.21	5	23.00	54.18	77.18
UNIT TOTAL		5.19	125	391.00	1339.02	1730.02
UNIT 20 ELECTRICAL MOTOR CONTROLS 1						
<input type="checkbox"/> INEL 20010-7201	ELECTRICAL MOTOR CONTROLS	0.42	10	23.00	108.36	131.36
<input type="checkbox"/> INEL 20020-7201	MANUAL MOTOR CONTROLS	0.50	12	23.00	129.00	152.00
<input type="checkbox"/> INEL 20030-7201	CONTROL TRANSFORMERS	0.42	10	23.00	108.36	131.36
<input type="checkbox"/> INEL 20040-7201	CONTROL LADDER LOGIC	0.67	16	23.00	172.86	195.86
<input type="checkbox"/> INEL 20050-7201	CONTROL RELAYS MOTOR STARTERS	0.50	12	23.00	129.00	152.00
<input type="checkbox"/> INEL 20060-7201	INTRODUCTION TROUBLESHOOTING	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 20070-7201	SYSTEMS TROUBLESHOOTING	0.42	10	23.00	108.36	131.36
<input type="checkbox"/> INEL 20080-7201	AUTOMATIC INPUT DEVICES	0.42	10	23.00	108.36	131.36
<input type="checkbox"/> INEL 20090-7201	ELECTRONIC SENSORS	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 20100-7201	BASIC TIMER CONTROL	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 20110-7201	TIMERS AND COUNTERS	0.25	6	23.00	64.50	87.50
UNIT TOTAL		4.59	110	253.00	1184.22	1437.22
UNIT 25 ELECTRICAL MOTOR CONTROLS 2						
<input type="checkbox"/> INEL 25010-7201	REVERSING MOTOR CONTROL	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 25020-7201	BRAKING METHODS	0.42	10	23.00	108.36	131.36

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UNIT 25 ELECTRICAL MOTOR CONTROLS 2 (CONTINUED)						
<input type="checkbox"/> INEL 25030-7201	REDUCED VOLTAGE STARTING	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 25040-7201	INTRO FREQUENCY DRIVES (AC)	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 25050-7201	AC DRIVES SPEED TORQUE CNT	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 25060-7201	AC DRIVES ACCEL AND DECEL	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 25070-7201	AC DRIVES TROUBLESHOOTING	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 25080-7201	SCR MOTOR CONTROL	0.42	10	23.00	108.36	131.36
UNIT TOTAL		2.82	68	184.00	727.56	911.56
UNIT 30 ROTATING ELECTRIC MACHINES						
<input type="checkbox"/> INEL 30010-7201	DC SERIES MOTORS	0.25	6	23.00	64.50	87.50
<input type="checkbox"/> INEL 30020-7201	DC SHUNT AND COMPOUND MOTORS	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 30030-7201	MOTOR SPEED AND TORQUE	0.33	8	23.00	85.14	108.14
<input type="checkbox"/> INEL 30040-7201	MOTOR PERFORMANCE	0.25	6	23.00	64.50	87.50
<input type="checkbox"/> INEL 30050-7201	SPLIT PHASE MOTORS	0.25	6	23.00	64.50	87.50
<input type="checkbox"/> INEL 30060-7201	CAPACITOR START MOTORS	0.25	6	23.00	64.50	87.50
<input type="checkbox"/> INEL 30070-7201	PERMANENT CAPACITOR MOTORS	0.25	6	23.00	64.50	87.50
<input type="checkbox"/> INEL 30080-7201	THREE PHASE MOTORS	0.33	8	21.00	85.14	106.14
UNIT TOTAL		2.24	54	182.00	577.92	759.92
UNIT 35 NATIONAL ELECTRICAL CODE (NEC)						
<input type="checkbox"/> INEL 35010-7201	GENERAL WIRING FUNDAMENTALS	0.25	6	17.00	64.50	81.50
<input type="checkbox"/> INEL 35020-7201	WIRE RACEWAY AND BOX SIZING	0.33	8	17.00	85.14	102.14
<input type="checkbox"/> INEL 35030-7201	BRANCH CIRCUITS	0.33	8	17.00	85.14	102.14
<input type="checkbox"/> INEL 35040-7201	SERVICE FEEDER CALCULATIONS	0.25	6	17.00	64.50	81.50
<input type="checkbox"/> INEL 35050-7201	GROUNDING AND BONDING	0.33	8	17.00	85.14	102.14
<input type="checkbox"/> INEL 35060-7201	OVERCURRENT PROTECTION	0.33	8	17.00	85.14	102.14
<input type="checkbox"/> INEL 35070-7201	MOTOR CIRCUIT WIRING	0.25	6	17.00	64.50	81.50
<input type="checkbox"/> INEL 35080-7201	TRANSFORMERS	0.25	6	17.00	64.50	81.50
<input type="checkbox"/> INEL 35090-7201	GENERAL HAZARDOUS LOCATIONS	0.25	6	17.00	64.50	81.50
<input type="checkbox"/> INEL 35100-7201	HEALTH CARE FACILITIES	0.25	6	17.00	64.50	81.50
<input type="checkbox"/> INEL 35110-7201	EMERGENCY POWER SYSTEMS	0.33	8	17.00	85.14	102.14
<input type="checkbox"/> INEL 35120-7201	INDUSTRIAL APPLICATIONS	0.33	8	17.00	85.14	102.14
<input type="checkbox"/> INEL 35130-7201	SPECIAL APPLICATION WIRING	0.25	6	17.00	64.50	81.50
<input type="checkbox"/> INEL 35140-7201	NEC REVIEW	0.17	4	17.00	43.86	60.86
UNIT TOTAL		3.90	94	238.00	1006.20	1244.20
UNIT 40 POWER DISTRIBUTION SYSTEMS						
<input type="checkbox"/> INEL 40010-7201	POWER GENERATION DISTRIBUTION	0.33	8	39.00	85.14	124.14
<input type="checkbox"/> INEL 40020-7201	ELECTRICAL WIRING TECHNIQUES	0.33	8	39.00	85.14	124.14
<input type="checkbox"/> INEL 40030-7201	WIRING SYSTEM INSTALLATION	0.42	10	39.00	108.36	147.36
<input type="checkbox"/> INEL 40040-7201	INTRODUCTION TO RACEWAYS	0.42	10	39.00	108.36	147.36
<input type="checkbox"/> INEL 40050-7201	BASIC CONDUIT BENDING	0.25	6	39.00	64.50	103.50
<input type="checkbox"/> INEL 40060-7201	ADVANCED RACEWAYS	0.25	6	39.00	64.50	103.50
<input type="checkbox"/> INEL 40070-7201	CONDUCTOR OVERCURRENT PROTECT	0.25	6	39.00	64.50	103.50
<input type="checkbox"/> INEL 40080-7201	CONDUIT SIZING WIRE PULLING	0.33	8	39.00	85.14	124.14
UNIT TOTAL		2.58	62	312.00	665.64	977.64
UNIT 45 FACILITY MAINTENANCE						
<input type="checkbox"/> INEL 45010-7201	PLANS AND SITE WORK	0.25	6	30.00	64.50	94.50
<input type="checkbox"/> INEL 45020-7201	INDUSTRIAL POWER SYSTEMS	0.42	10	30.00	108.36	138.36
<input type="checkbox"/> INEL 45030-7201	SIGNALING SYSTEMS	0.25	6	30.00	64.50	94.50

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UNIT 45 FACILITY MAINTENANCE (CONTINUED)						
<input type="checkbox"/> INEL 45040-7201	MOTORS CONTROLLERS INSTALLATIO	0.33	8	30.00	85.14	115.14
<input type="checkbox"/> INEL 45050-7201	SPECIAL EQUIPMENT & HVAC	0.33	8	30.00	85.14	115.14
<input type="checkbox"/> INEL 45060-7201	INDUSTRIAL HAZARDOUS LOCATIONS	0.25	6	30.00	64.50	94.50
<input type="checkbox"/> INEL 45070-7201	SINGLE PHASE TRANSFORMERS	0.33	8	30.00	85.14	115.14
<input type="checkbox"/> INEL 45080-7201	3 PHASE TRANSFORMERS	0.50	12	30.00	129.00	159.00
<input type="checkbox"/> INEL 45090-7201	NEC TRANSFORMER REQUIREMENTS	0.25	6	30.00	64.50	94.50
<input type="checkbox"/> INEL 45100-7201	EMERGENCY ELECTRICAL SYSTEMS	0.25	6	30.00	64.50	94.50
<input type="checkbox"/> INEL 45110-7201	CLASS B FIRE ALARM SYSTEMS	0.33	8	30.00	85.14	115.14
<input type="checkbox"/> INEL 45115-7201	ADVANCED FIRE ALARM SYSTEMS	0.42	10	15.00	108.36	123.36
UNIT TOTAL		3.91	94	345.00	1008.78	1353.78
UNIT 50 ELECTRICAL CONTROL WIRING						
<input type="checkbox"/> INEL 50010-7201	ELECTRICAL CONTROL WIRING	0.42	10	65.00	108.36	173.36
<input type="checkbox"/> INEL 50020-7201	ELECTRICAL CONTROL SYSTEMS	1.00	24	75.00	258.00	333.00
UNIT TOTAL		1.42	34	140.00	366.36	506.36
UNIT 55 INDUSTRIAL ELECTRONICS						
<input type="checkbox"/> INEL 55010-7201	USING THE OSCILLOSCOPE	0.67	16	21.00	172.86	193.86
<input type="checkbox"/> INEL 55020-7201	METERS FOR ELECTRONICS	0.33	8	21.00	85.14	106.14
<input type="checkbox"/> INEL 55030-7201	ELECTRONIC SOLDERING	0.25	6	21.00	64.50	85.50
<input type="checkbox"/> INEL 55040-7201	SOLDERING PRINTED CIRCUIT BOAR	0.25	6	21.00	64.50	85.50
<input type="checkbox"/> INEL 55050-7201	DIODES	0.25	6	21.00	64.50	85.50
<input type="checkbox"/> INEL 55060-7201	POWER SUPPLIES	0.50	12	21.00	129.00	150.00
<input type="checkbox"/> INEL 55070-7201	PHOTO DEVICES	0.33	8	21.00	85.14	106.14
<input type="checkbox"/> INEL 55080-7201	SOLID STATE DEVICES	0.83	20	21.00	214.14	235.14
<input type="checkbox"/> INEL 55090-7201	ELECTRONIC TIMING	0.33	8	21.00	85.14	106.14
<input type="checkbox"/> INEL 55100-7201	AMPLIFIERS	0.83	20	21.00	214.14	235.14
<input type="checkbox"/> INEL 55110-7201	DIGITAL LOGIC FUNDAMENTALS	0.50	12	21.00	129.00	150.00
<input type="checkbox"/> INEL 55120-7201	DIGITAL LOGIC APPLICATIONS	0.42	10	21.00	108.36	129.36
<input type="checkbox"/> INEL 55130-7201	PROXIMITY SWITCHING	0.17	4	21.00	43.86	64.86
<input type="checkbox"/> INEL 55140-7201	PHOTOELECTRIC DEVICES	0.17	4	21.00	43.86	64.86
<input type="checkbox"/> INEL 55150-7201	FIBER OPTIC FUNDAMENTALS	0.33	8	21.00	85.14	106.14
<input type="checkbox"/> INEL 55160-7201	FIBER OPTIC LAB	0.25	6	21.00	64.50	85.50
UNIT TOTAL		6.41	154	336.00	1653.78	1989.78
UNIT 60 PROGRAM LOGIC CONTROLLERS 1						
<input type="checkbox"/> INEL 60010-7201	INTRO PROGRAMMABLE CONTROLLERS	0.25	6	25.00	64.50	89.50
<input type="checkbox"/> INEL 60020-7201	BASIC PLC PROGRAMMING	0.50	12	25.00	129.00	154.00
<input type="checkbox"/> INEL 60030-7201	PLC MOTOR CONTROL	0.50	12	25.00	129.00	154.00
<input type="checkbox"/> INEL 60040-7201	DISCRETE I/O INTERFACING	0.33	8	25.00	85.14	110.14
<input type="checkbox"/> INEL 60050-7201	INTRO TO PLC TROUBLESHOOTING	0.33	8	25.00	85.14	110.14
<input type="checkbox"/> INEL 60060-7201	PLC SYSTEMS TROUBLESHOOTING	0.33	8	25.00	85.14	110.14
UNIT TOTAL		2.24	54	150.00	577.92	727.92
UNIT 65 PROGRAM LOGIC CONTROLLERS 2						
<input type="checkbox"/> INEL 65010-7201	EVENT SEQUENCING	0.33	8	25.00	85.14	110.14
<input type="checkbox"/> INEL 65020-7201	APPLICATION DEVELOPMENT	0.50	12	25.00	129.00	154.00
<input type="checkbox"/> INEL 65030-7201	PLC TIMER INSTRUCTIONS	0.50	12	25.00	129.00	154.00
<input type="checkbox"/> INEL 65040-7201	PLC COUNTER INSTRUCTIONS	0.50	12	25.00	129.00	154.00
<input type="checkbox"/> INEL 65050-7201	PROGRAM CONTROL INSTRUCTIONS	0.50	12	25.00	129.00	154.00
<input type="checkbox"/> INEL 65060-7201	MATH DATA MOVE INSTRUCTIONS	0.58	14	25.00	149.64	174.64

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UNIT 65 PROGRAM LOGIC CONTROLLERS 2 (CONTINUED)						
UNIT TOTAL		2.91	70	150.00	750.78	900.78
UNIT 67 SIEMENS S7-300 PLCS						
<input type="checkbox"/> INEL 67010-7201	SIEMENS 300 INTRO TO PLCS	0.50	12	17.00	129.00	146.00
<input type="checkbox"/> INEL 67020-7201	SIEMENS 300 BASIC PLC PROGRAM	0.50	12	17.00	129.00	146.00
<input type="checkbox"/> INEL 67030-7201	SIEMENS 300 PLC MOTOR CONTROL	0.50	12	17.00	129.00	146.00
<input type="checkbox"/> INEL 67040-7201	SIEMENS 300 IO INTERFACING	0.50	12	5.00	129.00	134.00
<input type="checkbox"/> INEL 67050-7201	SIEMENS 300 PLC TIMERS	0.50	12	5.00	129.00	134.00
<input type="checkbox"/> INEL 67060-7201	SIEMENS 300 PLC COUNTERS	0.50	12	5.00	129.00	134.00
UNIT TOTAL		3.00	72	66.00	774.00	840.00
UNIT 75 INTRODUCTION TO CONTROL LOGIX						
<input type="checkbox"/> INEL 75010-7201	INTRO TO COMPACT LOGIX PLCS	0.25	6	15.00	64.50	79.50
<input type="checkbox"/> INEL 75020-7201	CREATING RS LOGIX 5000 PROJEC	0.25	6	15.00	64.50	79.50
<input type="checkbox"/> INEL 75030-7201	ETHERNET COMMUNICATION PROTO	0.42	10	15.00	108.36	123.36
<input type="checkbox"/> INEL 75040-7201	CREATING RS LOGIX 5000 PROGRA	0.42	10	15.00	108.36	123.36
<input type="checkbox"/> INEL 75050-7201	TON TOF RTO COUNTER INSTRUCTI	0.42	10	15.00	108.36	123.36
<input type="checkbox"/> INEL 75060-7201	CU AND CD COUNTER INSTRUCTION	0.42	10	15.00	108.36	123.36
UNIT TOTAL		2.18	52	90.00	562.44	652.44
UNIT 70 PANEL VIEW						
<input type="checkbox"/> INEL 70010-7201	INTRODUCTION TO PANEL VIEW	0.17	4	10.00	43.86	53.86
<input type="checkbox"/> INEL 70020-7201	TERMINAL OVERVIEW	0.25	6	10.00	64.50	74.50
<input type="checkbox"/> INEL 70030-7201	WIRING AND SET UP	0.25	6	10.00	64.50	74.50
<input type="checkbox"/> INEL 70040-7201	TERMINAL CONFIGURATION	0.25	6	10.00	64.50	74.50
<input type="checkbox"/> INEL 70050-7201	TROUBLESHOOTING MAINTENANCE	0.25	6	10.00	64.50	74.50
<input type="checkbox"/> INEL 70060-7201	PROGRAMMING PANEL VIEW	0.83	20	10.00	214.14	224.14
<input type="checkbox"/> INEL 70070-7201	PANEL VIEW PLC APPLICATIONS	1.04	25	10.00	268.32	278.32
<input type="checkbox"/> INEL 70080-7201	PANEL VIEW PLC COMMUNICATION	0.21	5	10.00	54.18	64.18
UNIT TOTAL		3.25	78	80.00	838.50	918.50
UNIT 80 MACHINE SAFETY CONTROLS						
<input type="checkbox"/> INEL 80010-7201	INTRODUCTION MACHINE SAFETY	0.33	8	15.00	85.14	100.14
<input type="checkbox"/> INEL 80020-7201	LEVEL 1 MACHINE SAFETY	0.25	6	22.00	64.50	86.50
<input type="checkbox"/> INEL 80030-7201	LEVEL 2 MACHINE SAFETY	0.42	10	25.00	108.36	133.36
<input type="checkbox"/> INEL 80040-7201	LEVEL 3 MACHINE SAFETY	0.50	12	25.00	129.00	154.00
<input type="checkbox"/> INEL 80050-7201	MACHINE SURVEY	0.33	8	15.00	85.14	100.14
UNIT TOTAL		1.83	44	102.00	472.14	574.14
UNIT 95 MECHATRONICS						
<input type="checkbox"/> INEL 95010-7201	MECHATRONICS AUTOMATION OPER	0.21	5	23.00	54.18	77.18
<input type="checkbox"/> INEL 95020-7201	MECHATRONICS BASIC COMP ADJ	0.21	5	23.00	54.18	77.18
<input type="checkbox"/> INEL 95030-7201	MECHATRONICS PICK PLACE FEED	0.21	5	23.00	54.18	77.18
<input type="checkbox"/> INEL 95040-7201	MECHATRONICS GAUGING	0.21	5	23.00	54.18	77.18
<input type="checkbox"/> INEL 95050-7201	MECHATRONICS INDEXING	0.21	5	23.00	54.18	77.18
<input type="checkbox"/> INEL 95060-7201	MECHATRONICS SORTING QUEUING	0.21	5	23.00	54.18	77.18
<input type="checkbox"/> INEL 95070-7201	MECHATRONICS SERVO ROBOTIC	0.21	5	23.00	54.18	77.18
<input type="checkbox"/> INEL 95080-7201	MECHATRONICS TORQUEING	0.21	5	23.00	54.18	77.18
<input type="checkbox"/> INEL 95090-7201	MECHATRONICS PARTS STORAGE	0.21	5	23.00	54.18	77.18
<input type="checkbox"/> INEL 95095-7201	MECHATRONICS STATION PROGRAM	0.21	5	13.00	54.18	67.18

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UNIT 95 MECHATRONICS (CONTINUED)						
<input type="checkbox"/> INEL 95100-7201	MECHATRONICS MULTI STATION CN	0.21	5	23.00	54.18	77.18
UNIT TOTAL		2.31	55	243.00	595.98	838.98
TOTAL		51.53	1240	3,284.00	13,294.74	16,578.74

FOR OFFICE USE ONLY

Instructor Approval _____ Date _____

Total Credit _____ Total Contact _____ Total Cost _____