

KELLOGG COMMUNITY COLLEGE

RENEWABLE ENERGY

SPRING 2022

Certificate: 25 credits

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
<input type="checkbox"/> INRE C910-7201	RENEWABLE ENERGY ORIENTATION		2	0.00	0.00	0.00
<input type="checkbox"/> INEL C910-7201	ELECTRIC ELECTRONICS ORIENTATION		2	0.00	0.00	0.00
The orientations must be completed at the RMTC in Battle Creek prior to registration. Please call 269.965.4137 to verify available orientation times.						
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 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		0.50	12	6.00	129.00	135.00
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 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 35130-7201	SPECIAL APPLICATION WIRING	0.25	6	17.00	64.50	81.50
UNIT TOTAL		2.07	50	119.00	534.06	653.06
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

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UNIT 05 ENERGY USE						
<input type="checkbox"/> INRE 05010-7201	MODERN ENERGY SOURCES	0.25	6	20.00	64.50	84.50
<input type="checkbox"/> INRE 05020-7201	PERSONAL ENERGY USE	0.67	16	25.00	172.86	197.86
<input type="checkbox"/> INRE 05030-7201	INDUSTRIAL ENERGY USE	0.50	12	20.00	129.00	149.00
<input type="checkbox"/> INRE 05040-7201	TRADITIONAL ENERGY SOURCES	0.33	8	19.00	85.14	104.14
<input type="checkbox"/> INRE 05050-7201	EXOTIC ENERGY PRODUCTION	0.33	8	19.00	85.14	104.14
UNIT TOTAL		2.08	50	103.00	536.64	639.64
UNIT 10 PHOTOVOLTAIC THEORY						
<input type="checkbox"/> INRE 10010-7201	INTRO TO PHOTOVOLTAIC SYSTEMS	0.50	12	38.00	129.00	167.00
<input type="checkbox"/> INRE 10020-7201	SOLAR RADIATION	0.50	12	43.00	129.00	172.00
UNIT TOTAL		1.00	24	81.00	258.00	339.00
UNIT 15 PV COMPONENTS						
<input type="checkbox"/> INRE 15010-7201	CELLS MODULES AND ARRAYS	0.88	21	50.00	227.04	277.04
<input type="checkbox"/> INRE 15020-7201	INVERTERS	0.25	6	20.00	64.50	84.50
<input type="checkbox"/> INRE 15030-7201	BATTERIES CHARGE CONTROLLERS	0.33	8	35.00	85.14	120.14
<input type="checkbox"/> INRE 15040-7201	BALANCE OF SYSTEM	0.25	6	18.00	64.50	82.50
<input type="checkbox"/> INRE 15050-7201	SYSTEM TYPES	0.67	16	50.00	172.86	222.86
UNIT TOTAL		2.38	57	173.00	614.04	787.04
UNIT 20 PHOTOVOLTAIC INSTALLATION						
<input type="checkbox"/> INRE 20010-7201	PHOTOVOLTAIC SAFETY	0.21	5	17.00	54.18	71.18
<input type="checkbox"/> INRE 20020-7201	ELECTRICAL NEC REQUIREMENTS	0.75	18	25.00	193.50	218.50
<input type="checkbox"/> INRE 20030-7201	SITE EVALUATION AND SIZING	0.67	16	48.00	172.86	220.86
<input type="checkbox"/> INRE 20040-7201	CONSTRUCT COMMISSIONING TROUBL	0.75	18	38.00	193.50	231.50
<input type="checkbox"/> INRE 20050-7201	PHOTOVOLTAIC SYSTEM PROJECT	1.00	24	55.00	258.00	313.00
UNIT TOTAL		3.38	81	183.00	872.04	1055.04
UNIT 25 WIND THEORY						
<input type="checkbox"/> INRE 25010-7201	WIND SYSTEM INTRODUCTION	0.33	8	22.00	85.14	107.14
<input type="checkbox"/> INRE 25020-7201	HISTORY OF WIND	0.42	10	19.00	108.36	127.36
<input type="checkbox"/> INRE 25030-7201	METEOROLOGY AND GEOGRAPHY	0.33	8	27.00	85.14	112.14
<input type="checkbox"/> INRE 25040-7201	MECHANICS OF THE WIND	0.33	8	12.00	85.14	97.14
UNIT TOTAL		1.41	34	80.00	363.78	443.73
UNIT 30 WIND COMPONENTS						
<input type="checkbox"/> INRE 30010-7201	TURBINE TECHNOLOGY	0.67	16	27.00	172.86	199.86
<input type="checkbox"/> INRE 30020-7201	DC GENERATION PRINCIPLES	0.58	14	32.00	149.64	181.64
<input type="checkbox"/> INRE 30030-7201	AC GENERATION PRINCIPLES	0.42	10	23.00	108.36	131.36
<input type="checkbox"/> INRE 30040-7201	TOWERS	0.25	6	12.00	64.50	76.50
UNIT TOTAL		1.92	46	94.00	495.36	589.36
UNIT 35 WIND INSTALLATION						
<input type="checkbox"/> INRE 35010-7201	WIND SAFETY	0.33	8	12.00	85.14	97.14
<input type="checkbox"/> INRE 35020-7201	WIND APPLICATION	0.33	8	16.00	85.14	101.14
<input type="checkbox"/> INRE 35030-7201	BUYING A WIND SYSTEM	0.50	12	16.00	129.00	145.00
<input type="checkbox"/> INRE 35040-7201	SITING	0.58	14	32.00	149.64	181.64
<input type="checkbox"/> INRE 35050-7201	SYSTEM INSTALLATION	0.67	16	17.00	172.86	189.86
<input type="checkbox"/> INRE 35060-7201	SYSTEM OPERATION	0.33	8	17.00	85.14	102.14

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UNIT TOTAL		2.74	66	110.00	706.92	816.92
TOTAL		25.42	615	1,655.00	6,558.36	8,213.36

FOR OFFICE USE ONLY

Instructor Approval _____ Date _____

Total Credit _____ Total Contact _____ Total Cost _____