

KELLOGG COMMUNITY COLLEGE

RENEWABLE ENERGY

SPRING 2019

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	RENEWABLE ENERGY ORIENTATION		2	0.00	0.00	0.00
<input type="checkbox"/> INEL C910	ELECTRIC ELECTRONICS ORIENTATION		2	0.00	0.00	0.00
The orientation 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	ELECTRICAL SAFETY	0.17	4	3.00	36.55	39.55
UNIT TOTAL		0.17	4	3.00	36.55	39.55
UNIT 10 MATHEMATICS FOR ELECTRICIANS						
<input type="checkbox"/> INEL 10020	ELECTRICAL MATH 2	0.25	6	3.00	53.75	56.75
<input type="checkbox"/> INEL 10030	ELECTRICAL MATH 3	0.25	6	3.00	53.75	56.75
UNIT TOTAL		0.50	12	6.00	107.50	113.50
UNIT 15 ELECTRICAL THEORY						
<input type="checkbox"/> INEL 15010	ELECTRICAL THEORY	0.25	6	23.00	53.75	76.75
<input type="checkbox"/> INEL 15020	STATIC ELECTRICITY	0.25	6	23.00	53.75	76.75
<input type="checkbox"/> INEL 15030	CALCULATORS AND ELECTRONICS	0.25	6	23.00	53.75	76.75
<input type="checkbox"/> INEL 15040	DEVICES AND SYMBOLS	0.25	6	23.00	53.75	76.75
<input type="checkbox"/> INEL 15050	MULTIMETER	0.33	8	23.00	70.95	93.95
<input type="checkbox"/> INEL 15060	OHM'S LAW	0.33	8	23.00	70.95	93.95
<input type="checkbox"/> INEL 15070	SERIES CIRCUITS	0.33	8	23.00	70.95	93.95
<input type="checkbox"/> INEL 15080	PARALLEL CIRCUITS	0.33	8	23.00	70.95	93.95
<input type="checkbox"/> INEL 15090	COMBINATION CIRCUITS	0.33	8	23.00	70.95	93.95
<input type="checkbox"/> INEL 15100	MAGNETISM	0.25	6	23.00	53.75	76.75
<input type="checkbox"/> INEL 15110	ALTERNATING CURRENT	0.25	6	23.00	53.75	76.75
<input type="checkbox"/> INEL 15120	OSCILLOSCOPE	0.33	8	23.00	70.95	93.95
<input type="checkbox"/> INEL 15130	INDUCTANCE	0.42	10	23.00	90.30	113.30
<input type="checkbox"/> INEL 15140	CAPACITANCE	0.42	10	23.00	90.30	113.30
<input type="checkbox"/> INEL 15150	RLC CIRCUITS	0.33	8	23.00	70.95	93.95
<input type="checkbox"/> INEL 15160	CONDUCTION	0.33	8	23.00	70.95	93.95
<input type="checkbox"/> INEL 15170	THEORY OVERVIEW	0.21	5	23.00	45.15	68.15
UNIT TOTAL		5.19	125	391.00	1115.85	1506.85
UNIT 35 NATIONAL ELECTRICAL CODE (NEC)						
<input type="checkbox"/> INEL 35010	GENERAL WIRING FUNDAMENTALS	0.25	6	17.00	53.75	70.75
<input type="checkbox"/> INEL 35020	WIRE RACEWAY AND BOX SIZING	0.33	8	17.00	70.95	87.95
<input type="checkbox"/> INEL 35030	BRANCH CIRCUITS	0.33	8	17.00	70.95	87.95
<input type="checkbox"/> INEL 35040	SERVICE FEEDER CALCULATIONS	0.25	6	17.00	53.75	70.75
<input type="checkbox"/> INEL 35050	GROUNDING AND BONDING	0.33	8	17.00	70.95	87.95
<input type="checkbox"/> INEL 35060	OVERCURRENT PROTECTION	0.33	8	17.00	70.95	87.95
<input type="checkbox"/> INEL 35130	SPECIAL APPLICATION WIRING	0.25	6	17.00	53.75	70.75
UNIT TOTAL		2.07	50	119.00	445.05	564.05

continued

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UNIT 40 POWER DISTRIBUTION SYSTEMS						
<input type="checkbox"/> INEL 40010	POWER GENERATION DISTRIBUTION	0.33	8	39.00	70.95	109.95
<input type="checkbox"/> INEL 40020	ELECTRICAL WIRING TECHNIQUES	0.33	8	39.00	70.95	109.95
<input type="checkbox"/> INEL 40030	WIRING SYSTEM INSTALLATION	0.42	10	39.00	90.30	129.30
<input type="checkbox"/> INEL 40040	INTRODUCTION TO RACEWAYS	0.42	10	39.00	90.30	129.30
<input type="checkbox"/> INEL 40050	BASIC CONDUIT BENDING	0.25	6	39.00	53.75	92.75
<input type="checkbox"/> INEL 40060	ADVANCED RACEWAYS	0.25	6	39.00	53.75	92.75
<input type="checkbox"/> INEL 40070	CONDUCTOR OVERCURRENT PROTECT	0.25	6	39.00	53.75	92.75
<input type="checkbox"/> INEL 40080	CONDUIT SIZING WIRE PULLING	0.33	8	39.00	70.95	109.95
UNIT TOTAL		2.58	62	312.00	554.70	866.70
UNIT 05 ENERGY USE						
<input type="checkbox"/> INRE 05010	MODERN ENERGY SOURCES	0.25	6	20.00	53.75	73.75
<input type="checkbox"/> INRE 05020	PERSONAL ENERGY USE	0.67	16	25.00	144.05	169.05
<input type="checkbox"/> INRE 05030	INDUSTRIAL ENERGY USE	0.50	12	20.00	107.50	127.50
<input type="checkbox"/> INRE 05040	TRADITIONAL ENERGY SOURCES	0.33	8	19.00	70.95	89.95
<input type="checkbox"/> INRE 05050	EXOTIC ENERGY PRODUCTION	0.33	8	19.00	70.95	89.95
UNIT TOTAL		2.08	50	103.00	447.20	550.20
UNIT 10 PHOTOVOLTAIC THEORY						
<input type="checkbox"/> INRE 10010	INTRO TO PHOTOVOLTAIC SYSTEMS	0.50	12	38.00	107.50	145.50
<input type="checkbox"/> INRE 10020	SOLAR RADIATION	0.50	12	43.00	107.50	150.50
UNIT TOTAL		1.00	24	81.00	215.00	296.00
UNIT 15 PV COMPONENTS						
<input type="checkbox"/> INRE 15010	CELLS MODULES AND ARRAYS	0.88	21	50.00	189.20	239.20
<input type="checkbox"/> INRE 15020	INVERTERS	0.25	6	20.00	53.75	73.75
<input type="checkbox"/> INRE 15030	BATTERIES CHARGE CONTROLLERS	0.33	8	35.00	70.95	105.95
<input type="checkbox"/> INRE 15040	BALANCE OF SYSTEM	0.25	6	18.00	53.75	71.75
<input type="checkbox"/> INRE 15050	SYSTEM TYPES	0.67	16	50.00	144.05	194.05
UNIT TOTAL		2.38	57	173.00	511.70	684.70
UNIT 20 PHOTOVOLTAIC INSTALLATION						
<input type="checkbox"/> INRE 20010	PHOTOVOLTAIC SAFETY	0.21	5	17.00	45.15	62.15
<input type="checkbox"/> INRE 20020	ELECTRICAL NEC REQUIREMENTS	0.75	18	25.00	161.25	186.25
<input type="checkbox"/> INRE 20030	SITE EVALUATION AND SIZING	0.67	16	48.00	144.05	192.05
<input type="checkbox"/> INRE 20040	CONSTRUCT COMMISSIONING TROUBL	0.75	18	38.00	161.25	199.25
<input type="checkbox"/> INRE 20050	PHOTOVOLTAIC SYSTEM PROJECT	1.00	24	55.00	215.00	270.00
UNIT TOTAL		3.38	81	183.00	726.70	909.70

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UNIT 25 WIND THEORY						
<input type="checkbox"/> INRE 25010	WIND SYSTEM INTRODUCTION	0.33	8	22.00	70.95	92.95
<input type="checkbox"/> INRE 25020	HISTORY OF WIND	0.42	10	19.00	90.30	109.30
<input type="checkbox"/> INRE 25030	METEOROLOGY AND GEOGRAPHY	0.33	8	27.00	70.95	97.95
<input type="checkbox"/> INRE 25040	MECHANICS OF THE WIND	0.33	8	12.00	70.95	82.95
UNIT TOTAL		1.41	34	80.00	303.15	383.15
UNIT 30 WIND COMPONENTS						
<input type="checkbox"/> INRE 30010	TURBINE TECHNOLOGY	0.67	16	27.00	144.05	171.05
<input type="checkbox"/> INRE 30020	DC GENERATION PRINCIPLES	0.58	14	32.00	124.70	156.70
<input type="checkbox"/> INRE 30030	AC GENERATION PRINCIPLES	0.42	10	23.00	90.30	113.30
<input type="checkbox"/> INRE 30040	TOWERS	0.25	6	12.00	53.75	65.75
UNIT TOTAL		1.92	46	94.00	412.80	506.80
UNIT 35 WIND INSTALLATION						
<input type="checkbox"/> INRE 35010	WIND SAFETY	0.33	8	12.00	70.95	82.95
<input type="checkbox"/> INRE 35020	WIND APPLICATION	0.33	8	16.00	70.95	86.95
<input type="checkbox"/> INRE 35030	BUYING A WIND SYSTEM	0.50	12	16.00	107.50	123.50
<input type="checkbox"/> INRE 35040	SITING	0.58	14	32.00	124.70	156.70
<input type="checkbox"/> INRE 35050	SYSTEM INSTALLATION	0.67	16	17.00	144.05	161.05
<input type="checkbox"/> INRE 35060	SYSTEM OPERATION	0.33	8	17.00	70.95	87.95
UNIT TOTAL		2.74	66	110.00	589.10	699.10
PROGRAM TOTAL		25.42	615	1655.00	5465.30	7120.30

FOR OFFICE USE ONLY

Instructor Approval _____ Date _____
 Total Credit _____ Total Contact _____ Total Cost _____