

KELLOGG COMMUNITY COLLEGE

SPRING 2024

INSTRUMENTATION

COURSE OPTIONS

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"/> INST C910-7201	INSTRUMENTATION ORIENTATION 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 INTRO TO PROCESS CONTROL						
<input type="checkbox"/> INST 05010-7201	PROCESS VARIAB OPERAT SIGNAL	0.50	12	10.00	134.75	144.75
<input type="checkbox"/> INST 05020-7201	INSTRUMENT IDENTIFICATION	0.17	4	10.00	45.82	55.82
<input type="checkbox"/> INST 05030-7201	SEQUENCE OF OPERATION	0.17	4	10.00	45.82	55.82
<input type="checkbox"/> INST 05040-7201	INDUSTRIAL REQUIREMENTS	0.17	4	10.00	45.82	55.82
<input type="checkbox"/> INST 05050-7201	SYSTEM FAMILIARIZATION 1	0.50	12	27.00	134.75	161.75
UNIT TOTAL		1.51	36	67.00	406.96	473.96
UNIT 10 MEASUREMENT INSTRUMENTATION						
<input type="checkbox"/> INST 10010-7201	PROCESS MEASUREMENT	0.25	6	12.00	67.38	79.38
<input type="checkbox"/> INST 10020-7201	TRANSDUCER OPERAT BASIC MEASU	0.33	8	12.00	88.94	100.94
<input type="checkbox"/> INST 10030-7201	CALIBRATION QUALITY CONTROL	0.33	8	12.00	88.94	100.94
<input type="checkbox"/> INST 10040-7201	SYSTEM FAMILIARIZATION 2	1.00	24	27.00	269.50	296.50
UNIT TOTAL		1.91	46	63.00	514.76	577.76
UNIT 15 PRESSURE MEASUREMENT						
<input type="checkbox"/> INST 15010-7201	PRESSURES IN LIQUIDS AND GASES	0.25	6	10.00	67.38	77.38
<input type="checkbox"/> INST 15020-7201	PRESSURE SENSORS AND TRANSDUCE	0.33	8	10.00	88.94	98.94
<input type="checkbox"/> INST 15030-7201	LOW PRESSURE MEASUREMENT	0.25	6	10.00	67.38	77.38
<input type="checkbox"/> INST 15040-7201	INSTALLATION AND SERVICE	0.25	6	10.00	67.38	77.38
<input type="checkbox"/> INST 15050-7201	PRESSURE LAB	1.50	36	7.00	404.25	411.25
UNIT TOTAL		2.58	62	47.00	695.33	742.33
UNIT 20 FORCE, WEIGHT, AND MOTION						
<input type="checkbox"/> INST 20010-7201	FORCE STRESS AND STRAIN	0.33	8	9.00	88.94	97.94
<input type="checkbox"/> INST 20020-7201	WEIGHT AND MASS MEASUREMENT	0.33	8	9.00	88.94	97.94
<input type="checkbox"/> INST 20030-7201	MATERIALS IN MOTION	0.17	4	9.00	45.82	54.82
<input type="checkbox"/> INST 20040-7201	POSITIONING MEASUREMENT	0.25	6	9.00	67.38	76.38
<input type="checkbox"/> INST 20050-7201	ACCELERATION VIBRATION SHOCK	0.25	6	9.00	67.38	76.38
UNIT TOTAL		1.33	32	45.00	358.46	403.46
UNIT 25 FLOW MEASUREMENT						
<input type="checkbox"/> INST 25010-7201	INTRODUCTION TO FLUID FLOW	0.17	4	8.00	45.82	53.82
<input type="checkbox"/> INST 25020-7201	MEASURING DEVICES PRI AND SEC	0.25	6	8.00	67.38	75.38
<input type="checkbox"/> INST 25030-7201	VARIABLE AREA INSTRUMENTS	0.17	4	8.00	45.82	53.82
<input type="checkbox"/> INST 25040-7201	OPEN CHANNEL FLOW POS DISPLACE	0.33	8	8.00	88.94	96.94
<input type="checkbox"/> INST 25050-7201	TURBINE AND MAGNETIC FLOWMETER	0.25	6	8.00	67.38	75.38
<input type="checkbox"/> INST 25060-7201	FLOWMETERS SOLIDS CALIBRATION	0.33	8	8.00	88.94	96.94
<input type="checkbox"/> INST 25070-7201	FLOW LAB	1.50	36	7.00	404.25	411.25
UNIT TOTAL		3.00	72	55.00	808.53	863.53
UNIT 30 LEVEL MEASUREMENT						
<input type="checkbox"/> INST 30010-7201	LEVEL MEASUREMENT	0.17	4	10.00	45.82	55.82
<input type="checkbox"/> INST 30020-7201	ELECTRIC PRESSURE HEAD INSTRUM	0.33	8	10.00	88.94	98.94
<input type="checkbox"/> INST 30030-7201	SOLID LEVEL MEASUREMENT	0.33	8	10.00	88.94	98.94
<input type="checkbox"/> INST 30040-7201	OTHER LEVELING MEASUREMENTS	0.17	4	10.00	45.82	55.82
<input type="checkbox"/> INST 30050-7201	LEVEL LAB	1.50	36	7.00	404.25	411.25
UNIT TOTAL		2.50	60	47.00	673.77	720.77

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UNIT 35 TEMPERATURE MEASUREMENT						
<input type="checkbox"/> INST 35010-7201	PRINCIPLES AND INDICATORS	0.17	4	10.00	45.82	55.82
<input type="checkbox"/> INST 35020-7201	ELEC BIMETAL FLUID INSTRUMENTS	0.50	12	10.00	134.75	144.75
<input type="checkbox"/> INST 35030-7201	PYROMETRY	0.25	6	10.00	67.38	77.38
<input type="checkbox"/> INST 35040-7201	CALIBRATION AND SETUP	0.25	6	10.00	67.38	77.38
<input type="checkbox"/> INST 35050-7201	TEMPERATURE LAB	2.00	48	7.00	539.00	546.00
UNIT TOTAL		3.17	76	47.00	854.33	901.33
UNIT 40 ANALYTICAL MEASUREMENT						
<input type="checkbox"/> INST 40010-7201	MEASURING CONDUCTIVITY PH ORP	0.25	6	12.00	67.38	79.38
<input type="checkbox"/> INST 40020-7201	OPTICAL MEASURE AND COMBUSTION	0.17	4	12.00	45.82	57.82
<input type="checkbox"/> INST 40030-7201	CHROMATOGRAPHY	0.17	4	12.00	45.82	57.82
UNIT TOTAL		0.59	14	36.00	159.02	195.02
UNIT 45 FINAL CONTROL ELEMENTS						
<input type="checkbox"/> INST 45010-7201	FINAL CONTROL ELEMENTS	0.17	4	10.00	45.82	55.82
<input type="checkbox"/> INST 45020-7201	ELEC PNEUM HYDRAULIC ACTUATORS	0.50	12	10.00	134.75	144.75
<input type="checkbox"/> INST 45030-7201	CONTROL VALVES	0.25	6	10.00	67.38	77.38
<input type="checkbox"/> INST 45040-7201	CONTROL ELEMENT APPLICATION	0.25	6	10.00	67.38	77.38
<input type="checkbox"/> INST 45050-7201	CONTROL VALVE LAB	1.00	24	7.00	269.50	276.50
UNIT TOTAL		2.17	52	47.00	584.83	631.83
TOTAL		18.76	452	454.00	5,055.99	5,509.99

FOR OFFICE USE ONLY

Instructor Approval _____ Date _____

Total Credit _____ Total Contact _____ Total Cost _____