

KELLOGG COMMUNITY COLLEGE

INDUSTRIAL INSTRUMENTATION

2011-2012

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

Unit / Module	Number	Packet Title	Credit	Contact Hours	Lab Fees	Tuition	Total Cost
UNIT 1 INTRO TO PROCESS CONTROL							
<input type="checkbox"/>	INST 1A	PROCESS VARIA, OPERA, & SIGNAL	0.50	12	5.00	77.75	82.75
<input type="checkbox"/>	INST 1B	INSTRUMENT IDENTIFICATION	0.17	4	5.00	26.44	31.44
<input type="checkbox"/>	INST 1C	SEQUENCE OF OPERATION	0.17	4	5.00	26.44	31.44
<input type="checkbox"/>	INST 1D	INDUSTRIAL REQUIREMENTS	0.17	4	5.00	26.44	31.44
UNIT TOTAL			1.01	24	20.00	157.07	177.07
UNIT 2 MEASUREMENT INSTRUMENTATION							
<input type="checkbox"/>	INST 2A	PROCESS MEASUREMENT	0.25	6	5.00	38.88	43.88
<input type="checkbox"/>	INST 2B	TRANSDUCER OPERA & BASIC MEA	0.33	8	10.00	51.32	61.32
<input type="checkbox"/>	INST 2C	CALIBRATION & QUALITY CONTROL	0.33	8	10.00	51.32	61.32
UNIT TOTAL			0.91	22	25.00	141.52	166.52
UNIT 3 PRESSURE MEASUREMENT							
<input type="checkbox"/>	INST 3A	PRESSURES IN LIQUIDS & GASES	0.25	6	5.00	38.88	43.88
<input type="checkbox"/>	INST 3B	PRESSURE SENSORS & TRANSDUCERS	0.33	8	10.00	51.32	61.32
<input type="checkbox"/>	INST 3C	LOW PRESSURE MEASUREMENT	0.25	6	10.00	38.88	48.88
<input type="checkbox"/>	INST 3D	INSTALLATION & SERVICE	0.25	6	5.00	38.88	43.88
UNIT TOTAL			1.08	26	30.00	167.96	197.96
UNIT 4 FORCE, WEIGHT, AND MOTION							
<input type="checkbox"/>	INST 4A	FORCE, STRESS, & STRAIN	0.33	8	10.00	51.32	61.32
<input type="checkbox"/>	INST 4B	WEIGHT & MASS MEASUREMENT	0.33	8	10.00	51.32	61.32
<input type="checkbox"/>	INST 4C	MATERIALS IN MOTION	0.17	4	5.00	26.44	31.44
<input type="checkbox"/>	INST 4D	POSITIONING MEASUREMENT	0.25	6	10.00	38.88	48.88
<input type="checkbox"/>	INST 4E	ACCELEERA, VIBRATION, & SHOCK	0.25	6	5.00	38.88	43.88
UNIT TOTAL			1.33	32	40.00	206.84	246.84
UNIT 5 FLOW MEASUREMENT							
<input type="checkbox"/>	INST 5A	INTRO TO FLUID FLOW	0.17	4	5.00	26.44	31.44
<input type="checkbox"/>	INST 5B	MEASURING DEVICES (PRI & SEC)	0.25	6	10.00	38.88	48.88
<input type="checkbox"/>	INST 5C	VARIABLE AREA INSTRUMENTS	0.17	4	5.00	26.44	31.44
<input type="checkbox"/>	INST 5D	OPEN CHAN FLOW & POSI DISPLACE	0.33	8	5.00	51.32	56.32
<input type="checkbox"/>	INST 5E	TURBINE & MAGNETIC FLOWMETERS	0.25	6	5.00	38.88	43.88
<input type="checkbox"/>	INST 5F	FLOWMETERS, SOLIDS, & CALIBRA	0.33	8	10.00	51.32	61.32
UNIT TOTAL			1.50	36	40.00	233.28	273.28
UNIT 6 LEVEL MEASUREMENT							
<input type="checkbox"/>	INST 6A	LEVEL MEASUREMENT	0.17	4	5.00	26.44	31.44
<input type="checkbox"/>	INST 6B	ELECTRI & PRESSURE HEAD INSTRU	0.33	8	10.00	51.32	61.32
<input type="checkbox"/>	INST 6C	SOLID LEVEL MEASUREMENT	0.33	8	10.00	51.32	61.32
<input type="checkbox"/>	INST 6D	OTHER TYPES OF LEV INSTRUMENTS	0.17	4	5.00	26.44	31.44
UNIT TOTAL			1.00	24	30.00	155.52	185.52

continued

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UNIT 7 TEMPERATURE MEASUREMENT						
<input type="checkbox"/> INST 7A	PRINCIPLES & INDICATORS	0.17	4	5.00	26.44	31.44
<input type="checkbox"/> INST 7B	ELEC, BIMETAL, & FLUID INSTRU	0.50	12	10.00	77.75	87.75
<input type="checkbox"/> INST 7C	PYROMETRY	0.25	6	10.00	38.88	48.88
<input type="checkbox"/> INST 7D	CALIBRATION & SET-UP	0.25	6	10.00	38.88	48.88
UNIT TOTAL		1.17	28	35.00	181.95	216.95
UNIT 8 ANALYTICAL MEASUREMENT						
<input type="checkbox"/> INST 8A	MEASURING CONDUCTIV, PH, & ORP	0.25	6	5.00	38.88	43.88
<input type="checkbox"/> INST 8B	OPTICAL MEASURE & COMBUSTION	0.17	4	5.00	26.44	31.44
<input type="checkbox"/> INST 8C	CHROMATOGRAPHY	0.17	4	5.00	26.44	31.44
UNIT TOTAL		0.59	14	15.00	91.76	106.76
UNIT 9 FINAL CONTROL ELEMENTS						
<input type="checkbox"/> INST 9A	FINAL CONTROL ELEMENTS	0.17	4	5.00	26.44	31.44
<input type="checkbox"/> INST 9B	ELEC, PNEUMA, & HYDRAU ACTUA	0.50	12	10.00	77.75	87.75
<input type="checkbox"/> INST 9C	CONTROL VALVES	0.25	6	10.00	38.88	48.88
<input type="checkbox"/> INST 9D	CONTROL ELEMENT APPLICATION	0.25	6	5.00	38.88	43.88
UNIT TOTAL		1.17	28	30.00	181.95	211.95
PROGRAM TOTAL		9.76	234	265.00	1517.85	1782.85

FOR OFFICE USE ONLY

Instructor Approval _____ Date _____

Total Credit _____ Total Contact _____ Total Cost _____