

KELLOGG COMMUNITY COLLEGE
INDUSTRIAL MILLWRIGHT

2011-2012

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Unit / Module	Number	Packet Title	Credit	Contact Hours	Lab Fees	Tuition	Total Cost
UNIT 1 PLANT SAFETY							
<input type="checkbox"/>	INMW 1A	INTRO TO SAFETY	0.17	4	10.00	26.44	36.44
<input type="checkbox"/>	INMW 1B	ERGONOMICS/MATERIAL HANDLING	0.17	4	6.00	26.44	32.44
<input type="checkbox"/>	INMW 1C	PERSONAL PROTECTIVE EQUIPMENT	0.17	4	6.00	26.44	32.44
<input type="checkbox"/>	INMW 1E	FIRE PROTECTION	0.17	4	5.00	26.44	31.44
<input type="checkbox"/>	INMW 1F	HAZARDOUS MATERIALS	0.25	6	6.00	38.88	44.88
<input type="checkbox"/>	INMW 1H	LOCK-OUT PROCEDURES	0.17	4	4.00	26.44	30.44
<input type="checkbox"/>	INMW 1J	FORKLIFT SAFETY	0.17	4	10.00	26.44	36.44
UNIT TOTAL			1.27	30	47.00	197.52	244.52
UNIT 4 BASIC BLUEPRINT READING							
<input type="checkbox"/>	INMW 4A	INTRO TO MULTIVIEW DRAWING	0.21	5	1.00	32.66	33.66
<input type="checkbox"/>	INMW 4B	SECTIONAL & AUXILIARY VIEWS	0.21	5	1.00	32.66	33.66
<input type="checkbox"/>	INMW 4C	TITLE BLOCKS & DRAWING FORMAT	0.21	5	1.00	32.66	33.66
<input type="checkbox"/>	INMW 4D	DIMENSIONS & NOTES	0.21	5	1.00	32.66	33.66
UNIT TOTAL			0.84	20	4.00	130.64	134.64
UNIT 5 SCHEMATICS AND SYMBOLS							
<input type="checkbox"/>	INMW 5A	INTRO TO SCHEMATICS & SYMBOLS	0.17	4	2.00	26.44	28.44
<input type="checkbox"/>	INMW 5G	HYDRAULIC & PNEUMATIC SYMBOLS	0.13	3	1.00	20.22	21.22
<input type="checkbox"/>	INMW 5H	HYDRAULIC & PNEUMATIC DIAGRAMS	0.13	3	1.00	20.22	21.22
UNIT TOTAL			0.43	10	4.00	66.88	70.88
UNIT 6 HAND TOOLS							
<input type="checkbox"/>	INMW 6A	HAND TOOL SAFETY	0.13	3	4.00	20.22	24.22
<input type="checkbox"/>	INMW 6B	HAND TOOL USAGE PROJECTS	0.33	8	45.00	51.32	96.32
UNIT TOTAL			0.46	11	49.00	71.54	120.54
UNIT 7 POWER TOOLS							
<input type="checkbox"/>	INMW 7A	PORTABLE POWER TOOL SAFETY	0.13	3	2.00	20.22	22.22
<input type="checkbox"/>	INMW 7B	ELECTRIC DRILLS & ACCESSORIES	0.17	4	8.00	26.44	34.44
<input type="checkbox"/>	INMW 7C	ELECTRIC HAMMERS & FASTENERS	0.25	6	8.00	38.88	46.88
<input type="checkbox"/>	INMW 7D	SCREWDRIVERS & NUTRUNNERS	0.13	3	1.00	20.22	21.22
<input type="checkbox"/>	INMW 7N	MAGNETIC & DIAMOND DRILLS	0.25	6	20.00	38.88	58.88
<input type="checkbox"/>	INMW 7P	IMPACT WRENCHES	0.13	3	4.00	20.22	24.22
UNIT TOTAL			1.06	25	43.00	164.86	207.86
UNIT 8 ELEMENTS OF MECHANICS							
<input type="checkbox"/>	INMW 8A	FORCES & MOTION	0.17	4	2.00	26.44	28.44
<input type="checkbox"/>	INMW 8C	WORK & ENERGY	0.13	3	1.00	20.22	21.22
<input type="checkbox"/>	INMW 8D	SIMPLE MACHINES	0.17	4	2.00	26.44	28.44
<input type="checkbox"/>	INMW 8E	USEFUL WORK	0.13	3	1.00	20.22	21.22
<input type="checkbox"/>	INMW 8F	FRICITION	0.13	3	1.00	20.22	21.22
UNIT TOTAL			0.73	17	7.00	113.54	120.54

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UNIT 9 DRIVE COMPONENTS							
<input type="checkbox"/>	INMW 9A	INTRO TO POWER TRANSMISSIONS	0.13	3	1.00	20.22	21.22
<input type="checkbox"/>	INMW 9B	COUPLINGS	0.17	4	6.00	26.44	32.44
<input type="checkbox"/>	INMW 9C	CLUTCHES	0.17	4	6.00	26.44	32.44
<input type="checkbox"/>	INMW 9D	FLAT BELT DRIVES	0.25	6	10.00	38.88	48.88
<input type="checkbox"/>	INMW 9E	V-BELT DRIVES	0.25	6	8.00	38.88	46.88
<input type="checkbox"/>	INMW 9F	CHAIN DRIVES	0.25	6	10.00	38.88	48.88
<input type="checkbox"/>	INMW 9G	SPEED REDUCERS	0.25	6	9.00	38.88	47.88
<input type="checkbox"/>	INMW 9H	GEARS	0.25	6	3.00	38.88	41.88
UNIT TOTAL			1.72	41	53.00	267.50	320.50
UNIT 10 LUBRICATION							
<input type="checkbox"/>	INMW 10A	PRIN & CHARACTER OF LUBRICA	0.17	4	2.00	26.44	28.44
<input type="checkbox"/>	INMW 10C	ADDITIVES, LUB ACT, BEAR LUB	0.13	3	1.00	20.22	21.22
<input type="checkbox"/>	INMW 10D	OILS & THEIR APPLICATIONS	0.13	3	1.00	20.22	21.22
<input type="checkbox"/>	INMW 10E	GENERAL & SPECI PURPOSE GREASE	0.17	4	2.00	26.44	28.44
<input type="checkbox"/>	INMW 10F	LUBRICATING COMPOUNDS	0.13	3	1.00	20.22	21.22
<input type="checkbox"/>	INMW 10G	LUBRICATION SYSTEMS & METHODS	0.13	3	1.00	20.22	21.22
<input type="checkbox"/>	INMW 10H	LUBRICANT STORAGE & HANDLING	0.13	3	1.00	20.22	21.22
UNIT TOTAL			0.99	23	9.00	153.98	162.98
UNIT 11 BEARINGS							
<input type="checkbox"/>	INMW 11A	NOMENCLA & TYPES OF BEARINGS	0.21	5	3.00	32.66	35.66
<input type="checkbox"/>	INMW 11B	HANDLING & STORING OF BEARINGS	0.13	3	3.00	20.22	23.22
<input type="checkbox"/>	INMW 11C	INSTALLATION & REMOVAL	0.33	8	7.00	51.32	58.32
<input type="checkbox"/>	INMW 11D	LUBRICATION & SEALS	0.25	6	8.00	38.88	46.88
<input type="checkbox"/>	INMW 11E	FAILURE: OTHER CAUSES	0.13	3	3.00	20.22	23.22
<input type="checkbox"/>	INMW 11F	TROUBLESHOOTING	0.17	4	4.00	26.44	30.44
UNIT TOTAL			1.22	29	28.00	189.74	217.74
UNIT 12 RIGGING							
<input type="checkbox"/>	INMW 12A	WEIGHT ESTIMATION	0.13	3	2.00	20.22	22.22
<input type="checkbox"/>	INMW 12B	SLINGS	0.17	4	1.00	26.44	27.44
<input type="checkbox"/>	INMW 12C	ROPES	0.21	5	3.00	32.66	35.66
<input type="checkbox"/>	INMW 12D	KNOTS	0.25	6	4.00	38.88	42.88
<input type="checkbox"/>	INMW 12F	CHAINS	0.13	3	1.00	20.22	21.22
<input type="checkbox"/>	INMW 12G	CRANES & HOISTS	0.17	4	2.00	26.44	28.44
<input type="checkbox"/>	INMW 12H	HAND SIGNALS	0.13	3	3.00	20.22	23.22
UNIT TOTAL			1.19	28	16.00	185.08	201.08

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UNIT 16 TROUBLESHOOTING						
<input type="checkbox"/> INMW 16A	INTRO TO TROUBLESHO & HUMAN RE	0.17	4	2.00	26.44	28.44
<input type="checkbox"/> INMW 16B	TROUBLESHO TECHNIQUES & AIDS	0.17	4	2.00	26.44	28.44
<input type="checkbox"/> INMW 16C	PREPARING FOR TROUBLESHOOTING	0.13	3	2.00	20.22	22.22
<input type="checkbox"/> INMW 16D	SOLVING MECHANICAL PROBLEMS	0.13	3	1.00	20.22	21.22
<input type="checkbox"/> INMW 16F	BREAKDOWN & PLANNED MAINTEN	0.17	4	2.00	26.44	28.44
UNIT TOTAL		0.77	18	9.00	119.76	128.76
UNIT 17 INDUSTRIAL HYDRAULICS						
<input type="checkbox"/> INMW 17A	FUNDAMEN OF HYDRAULIC CIRCUITS	0.33	8	2.00	51.32	53.32
<input type="checkbox"/> INMW 17B	HYDRAULIC FLUIDS	0.33	8	2.00	51.32	53.32
<input type="checkbox"/> INMW 17C	CONTROL VALVES	0.33	8	2.00	51.32	53.32
<input type="checkbox"/> INMW 17D	FLOW CONTROL VALVES & CIRCUITS	0.33	8	2.00	51.32	53.32
<input type="checkbox"/> INMW 17E	ACTUATORS	0.33	8	2.00	51.32	53.32
<input type="checkbox"/> INMW 17F	VALVES	0.33	8	2.00	51.32	53.32
<input type="checkbox"/> INMW 17G	HYDRAULIC CIRCUITS	0.33	8	2.00	51.32	53.32
<input type="checkbox"/> INMW 17H	REMOTE CON, FILTRA & TROUBLESH	0.33	8	6.00	51.32	57.32
UNIT TOTAL		2.64	64	20.00	410.56	430.56
UNIT 18 INDUSTRIAL PNEUMATICS						
<input type="checkbox"/> INMW 18A	FACTS ABOUT AIR	0.33	8	4.00	51.32	55.32
<input type="checkbox"/> INMW 18B	AIR PREPARATION	0.33	8	4.00	51.32	55.32
<input type="checkbox"/> INMW 18C	AIR PIPING	0.33	8	4.00	51.32	55.32
<input type="checkbox"/> INMW 18D	ACTUATORS	0.33	8	4.00	51.32	55.32
<input type="checkbox"/> INMW 18E	VALVES	0.33	8	4.00	51.32	55.32
<input type="checkbox"/> INMW 18F	CYLINDER CONTROL	0.33	8	4.00	51.32	55.32
<input type="checkbox"/> INMW 18G	TROUBLESHOOTING	0.33	8	4.00	51.32	55.32
UNIT TOTAL		2.31	56	28.00	359.24	387.24
PROGRAM TOTAL		15.63	372	317.00	2430.84	2747.84

FOR OFFICE USE ONLY

Instructor Approval _____ Date _____

Total Credit _____ Total Contact _____ Total Cost _____