2013-14 CATALOG
CURRICULUM OUTLINE FOR A BACHELOR'S DEGREE IN:
MANUFACTURING TECHNOLOGY

SEM	GRADE	COURSE & TITLE - UNIVERSITY STUDIES, 45 HOURS	HRS
		ORAL & WRITTEN COMMUNICATION	
		COM 161 INTRO. TO PUBLIC SPEAKING	3
		ENG 105 CRITICAL READING, WRITING, AND INQUIRY Prereq: English ACT score of at least 18 or ENG 100, Reading ACT score of at least 20 or REA 100+120	4
		WORLD'S HISTORICAL, LITERARY, & PHILOSOPHICAL TRADITIONS	
		HUM 211 WESTERN HUMANITITES TRADITION Prereq: ENG 105 or 150	3
		CIV 201 WORLD CIVILIZATION & CULTURES I **OR** CIV 202 WORLD CIVILIZATIONS & CULTURES II	3
		SCIENTIFIC INQUIRY, METHODOLOGIES, & QUANTITATIVE SKILLS	
		CHE 105 INTRODUCTORY CHEMISTRY I Math ACT Score of at least 20 or MAT 097 strongly advised	4
		MAT 135 INTRO. TO PROBABILITY & STATISTICS Prereq: Math ACT score of at least 20 or MAT 097	4
		PHY 130 GENERAL PHYSICS I **AND** PHY 131 GENERAL PHYSICS LAB Prereq: MAT 130,140 or equivalent; PHY 130 and 131 must be taken together	4
		GLOBAL AWARENESS, CULTURAL DIVERSITY, AND THE WORLD'S ARTISTIC TRADITIONS	
		ANY COURSE IN CATEGORY	3
		SOCIAL AND SELF-AWARENESS AND RESPONSBILE CITIZENSHIP	
		ANY COURSE IN SUB-CATEGORY OF ETHICS, SOCIAL RESPONSIBILITY, & CIVIC ENGAGEMENT	3
		ECO 231 PRINCIPLES OF MICROECONOMICS Prereqs: MAT 117, 120, 140 or 150; or an Math ACT score of at least 23; or consent of instructor	3
		UNIVERSITY STUDIES ELECTIVE	
		MAT 230 TECHNICAL MATH II Prereq: MAT 130 or a Math ACT score of at least 24	5
		CSC 199 INTRO. TO INFORMATION TECHNOLOGY Prereq: MAT 105 or Math ACT of at least 20	3
		UNIVERSITY STUDIES ELECTIVES	3

SEM	GRADE	COURSE & TITLE	HRS
		ENG 324 TECHNICAL WRITING FOR IND. TECH. Prereq: ENG 105	3
		IET 399 PROFESSIONAL DEVELOPMENT SEMINAR I Sophomore or Junior Standing	1
		IET 488 COPERATIVE EDUCATION/INTERNSHIP	3
		ITD 099 TRANSITIONS (F)	1
		ITD 101 INTRO. TO DESIGN & GRAPHIC COMMUNICATIONS	4
		ITD 104 COMPUTER AIDED DESIGN Prereq: ITD 101 or ITD 107 (SPRING SEMESTER – Ottway Only)	4
		ITD 130 MANUFACTURING PROCESSES & MATERIALS	3
		ITD 204 PARAMETRIC MODELING & RENDERING Prereq: ITD 104 (FALL SEMESTER – Ottway Only)	3
		ITD 301 ARCHITECTURAL DESIGN I Prereq: ITD 101 (or 107)	4
		ITD 350 CONSTRUCTION SYSTEMS Prereq: ITD 101 or 107 and ITD 130	4
		MAT 130 TECHNICAL MATH I Prereq: Math ACT score of at least 21 or MAT 097	5
		MGT 350 FUNDAMENTALS OF MANAGEMENT Prereq: Junior Standing	3
		MANUFACTURING TECHNOLOGY REQUIRED COURSES, 37 HOURS	38
		EMT 261 INTRODUCTION TO FLUID POWER SYSTEMS (F) Prereq: MAT 130 or 150: PHY 130/131 or PHY 235/236: Coreq: EMT 262	3
		EMT 262 INTRODUCTION TO FLUID POWER SYSTEMS LAB (F) Prereq: MAT 130 or 150; PHY 130/131 or PHY 235/236; Coreq: EMT 261	1
		EMT 310 PROGRAMMABLE LOGIC CONTROLLERS (S) Prereq: EMT 201 and TSM 241	4
		IET 587 QUALITY CONTROL (S) Prereq: MAT 135 or CIS 243	3
		ITD 202 APPLIED TECHNICAL DRAWING (F) Prereq: ITD 101 or 107 and 104	4
		ITD 306 ENGINEERING GRAPHICS (S) Prereq: ITD 101 or 107, 104 and 202	4
		ITD 330 MACHINE TOOL PROCESSES (F) Prereq: ITD 130	4
		MGT 551 ORGANIZATIONAL BEHAVIOR Prerq: MGT 350	3
		TSM 110 ELECTRICAL SYSTEMS (F) Prereq: MAT 130 or 150	4
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TOTAL CURRICULUM REQUIREMENTS, 120 HOURS Last updated: April 2013