

# Curriculum Sheet for Bachelor of Science in Industrial Technology



## Manufacturing and Maintenance Management

TOTAL HOURS	35	GENERAL EDUCATION			HOURS	PREREQUISITE	SEMESTER
English: 6 hrs.	EN	1103	English Composition I (EN 1104 may substitute)		3		Fall & Spring
	EN	1113	English Composition II (EN 1173 may substitute)		3		Fall & Spring
FA: 3 hrs.	XX	XXXX	Any Approved Fine Arts Elective (See List)		3		Fall & Spring
Math: 9 hrs.	MA	1313	College Algebra (or higher)		3		Fall & Spring
	MA	1613	Calculus for Business and Life Sciences (or higher)		3	MA 1313	Fall & Spring
	MA	2113	Introduction to Statistics (May substitute ST/BQA 2113)		3	MA 1313	Fall & Spring
Natural Science: 8 hrs.	CH	1043	Survey of Chemistry I (or higher)		3		Fall & Spring
	CH	1051	Experimental Chem (Lab for CH 1043) (or higher)		1		Fall & Spring
	PH	1013	Physical Sci Survey 1 (or higher)		3	MA 1313	Fall & Spring
	PH	1011	Physical Science Lab 1 (Lab for PH 1013) (or higher)		1	MA 1313	Fall & Spring
Extra Sci 3 hrs.	XX	XXXX	Choose From: CH 1213, 1223, PH 1023, 1113, 2213, 2223		3		Fall & Spring
Humanities: 6 hrs.	XX	XXXX	Any Two Approved Humanities Elective (See List)		3		Fall & Spring
Soc Sci: 6 hrs.	XX	XXXX	Any Two Approved Social Science / Behavioral Elective (See List)		3		Fall & Spring
TOTAL HOURS	43	MAJOR CORE COURSES			HOURS	PREREQUISITE	SEMESTER
Introductory Skills: 18 hrs.	INDT	1003	Technical Drafting and Print Reading		3		Fall & Spring
	INDT	1813	Basic Industrial Electricity and Electronics		3	MA 1313	Fall & Spring
	INDT	2113	Introduction to PLC Programming		3		Fall & Spring
	INDT	2123	Introduction to CNC Programming		3	INDT 1003 & MA 1313	Fall & Spring
	INDT	3223	Industrial Materials		3	CH 1043 OR HIGHER	Spring
	INDT	3813	Technical Writing and Presentation for Industry		3		Fall
Management Skills: 9 hrs.	INDT	3063	Industrial Human Relations		3		Spring
	INDT	3373	Forecast and Cost Modeling		3	JUNIOR STANDING	Spring
	ACC	2013	Principles of Financial Accounting		3	For final management course, choose one course from any of these options.	Fall & Spring
	BL	2413	Legal Environment of Business				
	MGT	3823	Responsible Leadership				
MGT	3000+	Any MGT 3000+ Level course w/approval from advisor					
General Knowledge: 13 hrs.	INDT	3043	Industrial Safety		3		Fall & Spring
	INDT	3243	Industrial Metrology		3	JUNIOR STANDING	Spring
	INDT	3363	Motion and Time Study		3	JUNIOR STANDING	Spring
	INDT	4224	Quality Assurance		4	INDT 3373	Fall
Seminars: 3 hrs.	INDT	1001	Introduction to Industrial Technology		1		Fall & Spring
	INDT	3101	Junior Seminar		1	JUNIOR STANDING	Fall
	INDT	4801	Senior Seminar		1	INDT 3101 & SENIOR	Fall & Spring
TOTAL HOURS	39	MFMA CONCENTRATION CORE COURSES			HOURS	NOTES	SEMESTER
Required Conc Core: 24 hrs	INDT	2343	Parametric Modeling for 3D Design		3	INDT 1003	Spring
	INDT	3103	Advanced Electricity and Electronics		3	INDT 1813	Fall & Spring
	INDT	3683	CNC Machining Processes		3	INDT 3243 AND INDT 2343	Fall
	INDT	4233	Maintenance Management		3	JUNIOR STANDING	Fall
	INDT	4263	Manufacturing Technology and Processes I		3	JUNIOR STANDING	Spring
	INDT	4373	Lean Six Sigma		3	INDT 4224	Spring
	INDT	4443	Rapid Prototyping		3	INDT 2343	Fall
	INDT	4463	Manufacturing Technology and Processes II		3	INDT 4263	Fall
Conc Electives: Choose 9 hrs from this list	INDT	2323	Welding Technology		9		Fall & Spring
	INDT	2353	Industrial Computer Aided Drafting and Design			INDT 1003	Fall
	INDT	3133	Process Equipment and Instrumentation				Fall
	INDT	3323	Welding Technology II			INDT 2323	Spring
	INDT	3333	Process Quality and Troubleshooting			INDT 1133	Fall
	INDT	4103	Industrial Control Systems			INDT 3103	Fall
	INDT	4203	Automated Systems I			INDT 2113 & INDT 2613	Fall
	INDT	4303	Industrial Robotics			INDT 4103	Spring
Additional Electives: Choose 6 hrs	INDT	XXXX	Any 3000+ Level INDT course		6		Fall & Spring



# INDUSTRIAL TECHNOLOGY

## MANUFACTURING & MAINTENANCE

### Sample Degree Flow Chart

