

Curriculum Sheet for Bachelor of Science in Industrial Technology

Industrial Automation Concentration



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		IAUT CONCENTRATION CORE COURSES	HOURS	PREREQUISITE	SEMESTER
Required Conc Core: 24 hrs	INDT	2353	Industrial Computer Aided Drafting and Design	3	INDT 1003	Fall
	INDT	2613	Industrial Fluid Power	3		Fall & Spring
	INDT	3103	Advanced Electricity and Electronics	3	INDT 1813	Fall & Spring
	INDT	4103	Industrial Control Systems	3	INDT 3103	Fall
	INDT	4203	Automated Systems I	3	INDT 2113 & INDT 2613	Fall
	INDT	4233	Maintenance Management	3	JUNIOR STANDING	Fall
	INDT	4303	Industrial Robotics	3	INDT 4103	Spring
	INDT	4403	Automated Systems II	3	INDT 4203	Spring
Conc Electives: Choose 9 hrs from this list	INDT	2323	Welding Technology	9		Spring
	INDT	2343	Parametric Modeling for 3D Design		INDT 1003	Spring
	INDT	3133	Process Equipment and Instrumentation		INDT 1133	Fall
	INDT	3683	CNC Machining Processes		INDT 3243 & INDT 2343	Spring
	INDT	4213	Survey of Energy Source and Power		CH 1023 OR HIGHER	Fall
	INDT	4263	Manufacturing Technology and Processes I		JUNIOR STANDING	Spring
	INDT	4463	Manufacturing Technology and Processes II		INDT 4263	Fall
Additional Electives: Choose 6 hrs	INDT	XXXX	Choose any two 3000+ Level INDT course	6		Fall & Spring



INDUSTRIAL TECHNOLOGY

INDUSTRIAL AUTOMATION

Sample Degree Flow Chart



FALL

SPRING

FALL

SPRING

FALL

SPRING

FALL

SPRING

INDT 1003

Drafting & Print Rdg

INDT 2123

Intro to CNC

INDT 2353

Comp Aided Drafting

HUM ELEC

Hum Elective # 2

CH/PH XXXX

Extra Science

INDT 3373

Frkst & Cost Model

INDT 4224

Quality Assurance

INDT 3363

Motion & Time Stdy

HUM ELEC

Hum Elective # 1

MA 1613

Bus Calc & Life Sc

CH 1043

Survey of Chem I

INDT 3223

Industrial Materials

INDT 4233

Maintenance Mgmt

INDT 3063

Ind Human Relations

MA 2113

Intro to Statistics

FINE ART ELEC

Fine Art Elective # 1

CH 1041

Experimental Chem

INDT 3243

Industrial Metrology

MGT ELEC

Management Elec

INDT 4801

Senior Seminar

MA 1313

College Algebra

INDT 1813

Basic Elec & Electron

INDT 3103

Adv Elec & Electron

INDT 3101

Junior Seminar

INDT 3043

Industrial Safety

INDT 4303

Industrial Robotics

INDT 1001

Intro to INDT

PH 1013

Phys Sci Survey I

SOC SCI ELEC

Soc Sci Elective # 1

SOC SCI ELEC

Soc Sci Elective # 2

INDT 3813

Tech Writing & Pres

INDT ELEC

INDT Elective # 3

INDT 3XXX

INDT Upper Lvl # 1

INDT 3XXX

INDT Upper Lvl # 2

EN 1103

English Comp I

PH 1011

Phys Sci Lab I

EN 1113

English Comp II

INDT ELEC

INDT Elective # 1

INDT ELEC

INDT Elective # 2

INDT 2113

Intro to PLC

INDT 2613

Indust Fluid Power

INDT 4203

Automated Sys I

INDT 4403

Automated Sys II