

Industrial Technology Curriculum



Bachelor of Science: Industrial Technology Major (Electronics/Airway Systems Technology Concentration)

<u>FRESHMAN YEAR</u>		F	S	<u>SOPHOMORE YEAR</u>		F	S
UNIV 100	University Success	2		IT 100	Introduction to Technology	1	
MATH 111	College Algebra	3		ITE 111	Basic Electronics	3	
CSC 115 (C)	Digital Computer Principles	3		ITEL 111	Basic Electronics Lab	1	
FLG 101,102	Foreign Language Options	3	3	ENG 205	World Literature	3	
HIST 101,102	History of Civilization	3	3	SPCH 201	Speech Arts	3	
ENG 104,105	Composition	3	3	ITMA 105	Industrial Safety Mgmt	3	
PE	Any 100 Level Activity Sport 1	1		ITD 114	Computer Aided Design	3	
MATH 112	Plane Trigonometry	3		PHY 201	Basic Physics I		3
CHEM 141	General Chemistry	3		PHYL 201	Basic Physics I Lab		1
CHML 141	General Chemistry Lab		1	ENG 213	Professional Writing		3
				MATH 221	Calculus I Industrial or Business		3
				ITE 112	Intermediate Electronics		3
				ITEL 112	Intermediate Electronics Lab		1
(Freshman Year Total: 35 Hours)		18	17	(Sophomore Year Total: 31 Hours)		17	14
<u>JUNIOR YEAR</u>		F	S	<u>SENIOR YEAR</u>		F	S
ITE 221	Devices and Circuits	3		ITE 438	PLC	3	
ITEL 221	Devices and Circuits Lab	1		ITE 449	Network Theories	3	
ITMA 325 (W)	Industrial Psychology	3		ITE 452	Fiber Optics and Comm.	3	
ART 206	Art Appreciation	3		ITC 400 (W)	Technical Writing	3	
MNGT 350	Business Computer Apps.	3		ITE 475	Microprocessor Soft./Hwre.	3	
ECO 211	Principles of Macroeconomics	3		ITMA 410	First Line Supervision		3
ITE 338	Digital Logic		3	ITE 450	Telecomm Systems		3
ITEL 338	Digital Logic Lab		1	ITMA 420 (W)	Labor & Industrial Relations		3
IT 300 (S)	Internship/Industrial Experience	3		IT 490 (S)	Senior capstone		3
ITD 316	Electronics Design		3				
PHIL 301	Introduction to Philosophy		3				
ELEC	Electives		1				
(Junior Year Total: 30 Hours)		16	14	(Senior Year Total: 28 Hours)		16	12
TOTAL HOURS: 124							

Course options for students wishing to keep Airway Systems concentration: Students will take the following:

ITAS 204 (W) Introduction to Aerospace	3
ITAS 302 Navigation & Nat. Aerospace System	3
ITAS 304 Aviation Laws and Regulations	3
ITAS 370 Air Traffic Control	3
ITAS 401 Flight Safety	3

Industrial Technology Curriculum



Bachelor of Science: Industrial Technology Major (Computer Technology Concentration)

<u>FRESHMAN YEAR</u>			F	S	<u>SOPHOMORE YEAR</u>			F	S
UNIV 100	University Success	2			IT 100	Introduction to Technology	1		
MATH 111	College Algebra	3			ITE 111	Basic Electronics	3		
CSC 115 (C)	Digital Computer Principles	3			ITEL 111	Basic Electronics Lab	1		
FLG 101,102	Foreign Language Options	3	3		ENG 205	World Literature	3		
HIST 101,102	History of Civilization	3	3		SPCH 201	Speech Arts	3		
ENG 104,105	Composition	3	3		ITMA 105	Industrial Safety Mgmt	3		
PE	Any 100 Level Activity Sport 1	1			ITD 114	Computer Aided Design	3		
MATH 112	Plane Trigonometry	3			PHY 201	Basic Physics I		3	
CHEM 141	General Chemistry	3			PHYL 201	Basic Physics I Lab		1	
CHML 141	General Chemistry Lab	1			ENG 213	Professional Writing		3	
					MATH 221	Calculus I Industrial or Business		3	
					ITE 112	Intermediate Electronics		3	
					ITEL 112	Intermediate Electronics Lab		1	
(Freshman Year Total: 35 Hours)		18	17		(Sophomore Year Total: 31 Hours)		17	14	
<u>JUNIOR YEAR</u>			F	S	<u>SENIOR YEAR</u>			F	S
ITE 221	Devices and Circuits	3			ITE 449	Network Theories	3		
ITEL 221	Devices and Circuits Lab	1			ITEL 449	Network Lab	1		
ITMA 325 (W)	Industrial Psychology	3			ITE 452	Fiber Optics and Comm.	3		
ART 206	Art Appreciation	3			ITC 400 (W)	Technical Writing	3		
MNGT 350	Business Computer Apps.	3			ITE 475	Microprocessor Soft./Hwre.	3		
ECO 211	Principles of Macroeconomics	3			ITE 466	Microprocessor/Troubleshoot.		3	
ITE 338	Digital Logic		3		ITEMA 476	Rear Time System Design		3	
ITEL 338	Digital Logic Lab		1		ITMA 410	Fist Line Supervision		3	
IT 300 (S)	Internship/Industrial Experience	3			IT MA 420 (W)	Labor & Industrial Relations		3	
PHIL 301	Introduction to Philosophy		3		IT 490 (S)	Senior capstone		3	
(Junior Year Total: 26 Hours)		16	10		(Senior Year Total: 31 Hours)		16	15	
TOTAL HOURS: 124									

Industrial Technology Curriculum



Bachelor of Science: Industrial Technology Major (Manufacturing and Design Technology Concentration)

<u>FRESHMAN YEAR</u>			F	S	<u>SOPHOMORE YEAR</u>			F	S
UNIV 100	University Success	2			IT 100	Introduction to Technology	1		
MATH 111	College Algebra	3			ITD 114	Computer Aided Design	3		
CSC 115 (C)	Digital Computer Principles	3			ITMA 105	Industrial Safety Mgmt.	3		
FLG 101,102	Foreign Language Options	3	3		ITMA 105	Intro. To Mfg Processes	3		
HIST 101,102	History of Civilization	3	3		ENG 205	World Literature	3		
ENG 104,105	Composition	3	3		ELEC	Electives	3		
PE	Any 100 Level Activity Sport 1	1			PHY 201	Basic Physics I		3	
MATH 112	Plane Trigonometry	3			PHYL 201	Basic Physics I Lab		1	
CHEM 141	General Chemistry	3			SPCH 201	Speech Arts		3	
CHML 141	General Chemistry Lab	1			ITD 203	Adv. Computer-Aided Design		3	
					ENG 213	Professional Writing		3	
					MATH 221	Calculus I Industrial or Business		3	
(Freshman Year Total: 35 Hours)		18	17		(Sophomore Year Total: 32 Hours)		16	16	
<u>JUNIOR YEAR</u>			F	S	<u>SENIOR YEAR</u>			F	S
ITD 327	Machine Design	3			ITMF 410	Computer Numerical Control	3		
ITMF 339	Materials Testing	3			ITC 400 (W)	Technical Writing	3		
ITMA 325 (W)	Industrial Psychology	3			ITMF 425	Robotics	3		
ART 206	Art Appreciation	3			ETD 361	Statics	3		
ECO 211	Principles of Macroeconomics	3			ITMA 423	Motion and Time Study	3		
MNGT 350	Business Computer Apps	3			ITMA 410	Fist Line Supervision		3	
ITMF 340	Hydraulics & Fluid Power Sys.	3			ETD 362	Material Mechanics		3	
IT 300 (S)	Internship/Industrial Experience	3			IT MA 420 (W)	Labor & Industrial Relations		3	
PHIL 301	Introduction to Philosophy	3			ITMA 425	Plant Layout		3	
					IT 490 (S)	Senior capstone		3	
(Junior Year Total: 27 Hours)		15	12		(Senior Year Total: 31 Hours)		15	15	
TOTAL HOURS: 124									

Industrial Technology Curriculum



Bachelor of Science: Industrial Technology Major (Technology Management Concentration)

<u>FRESHMAN YEAR</u>			F	S	<u>SOPHOMORE YEAR</u>			F	S
UNIV 100	University Success	2			IT 100	Introduction to Technology	1		
MATH 111	College Algebra	3			ITD 114	Computer Aided Design	3		
CSC 115 (C)	Digital Computer Principles	3			ITMA 105	Industrial Safety Mgmt.	3		
FLG 101,102	Foreign Language Options	3	3		PHY 201	Basic Physics I	3		
HIST 101,102	History of Civilization	3	3		PHYL 201	Basic Physics I Lab	1		
ENG 104,105	Composition	3	3		ITMA 105	Intro. To Mfg Processes	3		
PE	Any 100 Level Activity Sport 1	1			ENG 205	World Literature	3		
MATH 112	Plane Trigonometry	3			SPCH 201	Speech Arts		3	
CHEM 141	General Chemistry	3			MNGT 350	Bus. Computer Apps		3	
CHML 141	General Chemistry Lab	1			ENG 213	Professional Writing		3	
					MATH 221	Calculus I Industrial or Business		3	
					ELEC	Electives		3	
(Freshman Year Total: 35 Hours)			18	17	(Sophomore Year Total: 32 Hours)			17	15
<u>JUNIOR YEAR</u>			F	S	<u>SENIOR YEAR</u>			F	S
ITMA 328	American Industry	3			ITHM 402	Industrial Hygiene	3		
ITMA 325 (W)	Industrial Psychology	3			ITHM 405	Risk Assessment	3		
ART 206	Art Appreciation	3			ITMA 411	Production & Inv. Mgmt	3		
ECO 211	Principles of Macroeconomics	3			ITC 400(S)	Technical Writing	3		
ITHM 300	Principles of Haz. Mat. Mgmt	3			ITMA 423	Motion and Time Study	3		
ITHM 301	Regulatory Framework	3			ITMA 410	Fist Line Supervision	3		
ITHM 302	Tech. Treatment of Haz. Matl	3			IT MA 420 (W)	Labor & Industrial Relations	3		
IT 300 (S)	Internship/Industrial Experience	3			IT MA 424	Quality Control	3		
PHIL 301	Introduction to Philosophy	3			ITMA 425	Plant Layout	3		
					IT 490 (S)	Senior capstone	3		
(Junior Year Total: 27 Hours)			15	12	(Senior Year Total: 30 Hours)			15	15
TOTAL HOURS: 124									

<u>Recommended Electives:</u>	GIS 200	Elementary Surveying & GIS	3
	GIS 210	Digital Imaging & Orthography	3
	GIS 300	Lidar Mapping	3
	GIS 400	Global Positioning Systems	3