

# Industrial Technology - AUTOMATED SYSTEMS Concentration

## Bachelor of Science

NAME:

W#:

	Grade	Semester	Minimum Grade of D Required:	Grade	Semester	Minimum Grade of C required:	
ENGLISH (12 hrs)			<b>ENGL 101</b> Freshman Composition (3 hrs)			<b>OSHE 111</b> Introduction to OSHE (3 hrs)	Core (33 hours)
			<b>ENGL 102</b> Critical Reading and Writing (3 hrs)			<b>*CMPS 173</b> Software for Management of Data (3 hrs)	
			<b>ENGL 230, 231 <u>or</u> 232</b> (3 hrs)			<b>IT 100</b> Introduction to Industrial Technology (3 hrs)	
		<b>ENGL 322</b> Intro to Prof and Technical Writing (3 hrs)			<b>IT 111</b> Engineering Drafting (3 hrs)		
NATURAL SCIENCE (16 hrs)			<b>Biology</b> Lecture _____(3 hrs)			<b>IT 233</b> Intro to Basic Electricity and Electronics (3 hrs)	
			<b>Biology</b> Lab _____(1 hr)			<b>IT 242</b> Materials and Processes (3 hrs)	
			<b>Chemistry - CHEM 101</b> Lecture (3 hrs)			<b>IT 256</b> Principles and Metallurgy of Welding (3 hrs)	
			<b>Chemistry - CLAB 103</b> Lab (1 hr)			<b>IT 264</b> Industrial Fluid Power (3 hrs)	
			<b>Physics - PHYS 191</b> Lecture (3 hrs)			<b>IT 351</b> Machine Tool and Technology (3 hrs)	
			<b>Physics - PLAB 193</b> Lab (1 hr)			<b>IT 405</b> Work Methods and Measurement (3 hrs)	
			<b>Second Science</b> Course Lecture (3 hrs)			<b>IT 406</b> Facilities Planning and Design (3 hrs)	
			<b>Second Science</b> Course Lab (1 hr)			<b>ET 202</b> Computer Applications <u>OR</u> <b>ET 212</b> Introd. to Programming (3 hrs)	
			For Second Science lecture/lab, students <b>MUST</b> choose either Chemistry CHEM 102 / CLAB 104 or Physics PHYS 192 / PLAB 194.			<b>DDT 212</b> Machine Design Drafting <u>OR</u> <b>DDT 316</b> Adv Comp Aided DD (3 hrs)	
Business			<b>ACCT 200</b> Introduction of Financial Accounting <u>or</u> <b>MGMT 351</b> (3 hrs)			<b>IT 112</b> Descriptive Geometry (3 hrs)	Aut Systems Concentration (27 hrs)
			<b>ECON 201</b> Macroeconomics (3 hrs)			<b>IT 236</b> Advanced Electronics (3 hrs)	
OTHER (14 hrs)			<b>ART, DNCE, MUS, <u>or</u> THEA</b> (3 hrs)			<b>IT 322</b> Materials Science and Metallurgy (3 hrs)	
			<b>HIST 101, 102, 201, <u>or</u> 202</b> (3 hrs)			<b>IT 331</b> Industrial Control Systems (3 hrs)	
			<b>COMM 211</b> Introduction to Public Speaking (3 hrs)			<b>IT 407</b> Six Sigma Industrial Quality (3 hrs)	
			Sociology - <b>SOC 101 <u>or</u> Psychology PSYC 101</b> (3 hrs)			<b>IT 442</b> CAD/CAM/Robotics (3 hrs)	
		<b>SE 101 or Free Elective</b> (2 hrs) not required of transfer or re-admitted			<b>IT 444</b> Computer-Integrated Manufacturing(CIM) (3 hrs)		
MATH (9 hrs)			<b>MATH 161</b> College Algebra (3 hrs)			<sup>1</sup> _____ Tech Elective: CMPS, ET, IT, MATH, MGMT or Science (3 hrs)	Tech Elective
			<b>MATH 162</b> Plane Trigonometry (3 hrs)			<sup>1</sup> No 100-level course will be accepted as a Technical Elective without approval of the Department Head. CMPS 110 cannot be taken as a technical elective	
			<b>MATH 241</b> Elementary Statistics (3 hrs)				

Notes: \* Only a minimum grade of D is required for CMPS 173