

**Industrial Technology Option in Manufacturing
Bachelor of Science Degree**

The Department of Technology at Eastern Kentucky University offers a four-year industrial technology program with an option in Manufacturing leading to the Bachelor of Science Degree. This program prepares graduates for many supervisory and technical management positions in industry. These positions may be in such areas as production supervision, product development, quality control, maintenance supervision, project management, production control and related areas. Besides a general education core, the program contains supporting courses in mathematics, physics, statistics and business management; a core of industrial management courses; and technical electives allows the student to focus on a technical area of interest. Within the technical and management courses, emphasis is placed on both the theoretical and the practical.

First Semester

BTO 100 Academic Orientation	1
*ENG 101 or ENG 105 English Composition I or Honors English Composition	3
INT 201 Metallic Material Process	3
*MAT 108 Trigonometry	3
*TEC 161 Computer Application in Technology	3
*TEC 190 Technical Graphics	<u>3</u>
	16

Second Semester

CHE 101 and 107 Chemistry in Everyday Life and Lab or CHE 111 and 115 General Chemistry I and Lab	4
EET 251 Electricity and Electronics	3
*ENG 102 English Composition II or Honors English Composition	3
General Education (Block IC)	3
Wellness (Gen.Ed. Block IV)	<u>3</u>
	16

Third Semester

ECO 230 Principles of Economics I	3
INT 238 Industrial Materials	3
PHY 131 College Physics I	5
*QMB 200 Business Statistics I or STA 215 Elementary Probability and Statistics or STA 270 Applied Statistics	3
Technical Elective from EET 352, GCM 211(2), 212 (1), INT 192 or 195	<u>3</u>
	17

Fourth Semester

Gen. Ed. Block (III A)	3
Gen. Ed. Block (VA)	3
INT 202 Quality Control	3
INT 301 Non-Metallic Material Processes	3
INT 330 Dimensional Metrology	3
MAT 211 Calculus with App. For Business and Economics or MAT 261 Calculus with Applications for Science I	<u>3</u>
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Fifth Semester

CON 420 Engineering Economy or ECO 300 Managerial Economics	3
Gen. Ed. Block (III B)	3
Gen. Ed. Block (IVA)	3
INT 310 Computer Communications in Industry	3
Program Upper Division Technical Elective	<u>3</u>
UWR University Writing Requirement	
	15

Sixth Semester

Gen. Ed. Block (III A/B)	6
INT 308 Methods Efficiency Measurement	3
Program Upper Division Technical Elective	<u>6</u>
	15

Seventh Semester

Free Elective	3
INT 352 Automated Devices	3
INT 371 Hydraulics and Pneumatics	3
INT 406 Manufacturing Planning Systems	3
TEC 349 Cooperative Study in Technology	<u>4</u>
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Eighth Semester

Free Electives	6
INT 408 Human Resource Development	3
INT 499 Manufacturing Senior Project	3
Program Upper Division Technical Elective	<u>3</u>
	15

Total Hours =128

***Courses that must be completed in the first 64 hours**