ENGINEERING TECHNOLOGY MANAGEMENT, BACHELOR OF SCIENCE (B.S.) AND TECHNOLOGY MANAGEMENT MASTER OF SCIENCE (M.S.) [MANUFACTURING CONCENTRATION] ACCELERATED 3+2 DUAL DEGREE PROGRAM

Students accepted to the 3+2 Accelerated Dual Degree Program are able to complete their B.S. degree and M.S. degree within five calendar years because of the accelerated curriculum and because nine semester hours of graduate coursework will apply to both the undergraduate B.S. degree and the graduate M.S. degree. Only undergraduate students of proven academic ability will be considered for the program. Students should be aware that, in order to maintain their progress in the accelerated 3+2 program, careful coordination with their advisor is required. Depending upon undergraduate progress at the time of 3+2 admission, some summer-school classes may be needed.

Admission Requirements

Students interested in this option must satisfy all of the following conditions:

- 1. Junior or Senior standing
- 2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
- Approval from department and Graduate School (see the form at http://gradschool.eku.edu/graduate-school-forms (http:// gradschool.eku.edu/graduate-school-forms/))
- 4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

Program Requirements

CIP Code: 15.1501

Summary Checklist for General Education

Code	Title	I	Hours
Element 1			
	· ·	/catalogs.eku.edu/undergraduate/ neral-education-requirements/	3
		/catalogs.eku.edu/undergraduate/ neral-education-requirements/	3
	· ·	talogs.eku.edu/undergraduate/ neral-education-requirements/	3

general-academic-information/general-education-requirements/ element-2/) Element 3 A: Arts (http://catalogs.eku.edu/undergraduate/general-academic-3 information/general-education-requirements/element-3/) B: Humanities (http://catalogs.eku.edu/undergraduate/general-3 academic-information/general-education-requirements/element-3/) Element 4 Natural Sciences (http://catalogs.eku.edu/undergraduate/general-6 academic-information/general-education-requirements/element-4/) Element 5 A: Historical Science (http://catalogs.eku.edu/undergraduate/ 3 general-academic-information/general-education-requirements/ element-5/) B: Social Behavioral Science (http://catalogs.eku.edu/ 3 undergraduate/general-academic-information/general-educationrequirements/element-5/) Element 6 Diversity of Perspectives Experiences (http://catalogs.eku.edu/ 6 undergraduate/general-academic-information/general-educationrequirements/element-6/)

Quantitative Reasoning (http://catalogs.eku.edu/undergraduate/

3

36

Total Hours

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

Major

Code	Title	Hours	
University Gradu	ation Requirements		
General Education	on	36	
Student Success Seminar			
SCO 100	Student Success Seminar (waived for transfers with 30+ hours)	1	
Upper division courses (42 hours distributed throughout Major/ Supporting/Gen Ed/Free Electives categories)			

Major Requirements

Core Courses		
AEM 195	Computer Aided Drafting	3
AEM 202	3	
AEM 308	Methods of Lean Operations	3
AEM 310W	Technical Communication	3
AEM 332	Process Control and Auditing	3
AEM 349	Applied Learning in Industrial Technology	1
AEM 408	Human Resource Development	3
AEM 499	Senior Capstone Project	3
AEM 706	Six Sigma Quality	3
AEM 801	Economics for Lean Operations	3
AEM 804	Project Management	3
STA 215	Introduction to Statistical Reasoning	3-4
or STA 270	Applied Statistics	
TEC 161	Computer Applications in Technology	3
Concentrations		
Students must select one of the following Concentrations:		
Manufacturin	g	

Element 2

2 Engineering Technology Management, Bachelor of Science (B.S.) and Technology Management Master of Science (M.S.) [Manufacturing Concentration] Accelerated 3+2 Dual Degree Program

Technology			NET 303	LANs & PC Communications
Supporting Course Requirements			NET 440	Wired/Wireless Communications
Choose from or	ne of the following:		Total Hours	
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) ^G			
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) ^G			
Choose from 0-	3 hours of the following:	0-3		
ECO 120	Economic Reasoning and Issues (Element 5B) $^{ m G}$			
ECO 230	Fundamentals of Microeconomics (Element 5B) $^{ m G}$			
ACC 200	Survey of Accounting			
Choose from 3-	6 hours of the following:	3-6		
MAT 120	Trigonometry (Element 2) ^G			
MAT 211	Applied Calculus			
MAT 261				
Or choose si	x hours of higher-level MAT courses			
PHY 131	College Physics I (Element 4) ^G			
Exit Requiremen	ts			
	take an AEM assessment examination before only, no hours). An exam fee is required.			
AEM 467	Comprehensive Exam for BS in ETM	0		
Free Electives		6-10		
Total Hours		120		

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Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. A maximum of six hours can apply toward Element 4.

Concentration

Code	Code Title				
Concentration Courses					
AEM 201 Metallic Material Processes					
AEM 301 Non-Metallic Material Processes					
AEM 330	Material Testing and Metrology	3			
AEM 352	Robotics and Automated Systems	3			
AEM 371	Hydraulics and Pneumatics	3			
AEM 390	3-D Parametric Solid Modeling	3			
EET 251	Electricity and Electronics	3			
Technical Elective	S				
Choose from nine division)	hours of the following: (six hours must be upper	9			
AEM 336	Reliability and Sampling				
AEM 382	Advanced Material Processing				
AEM 383	CAD/CAM Integration				
AEM 392	Computer Aided Machine Drawing				
AEM 395	Special topics in AEM:				
AEM 397	Advanced Machine Drawing				
AEM 530	Design of Experiments				
or STA 585	Experimental Design				
CON 303	Statics and Strength of Materials				
EET 252	Digital Electronics				
EET 257	Electronic Devices and Circuits				
EET 351	Programmable Logic Controllers				