Engineering Technology Management, B.S. (Manufacturing) + Technology Management (Engineering Operations), M.S. 2023-2024

521 Lancaster Ave. 302 Whalen Bldg. Richmond, KY 40475 859-622-3232

Website: www.technology.eku.edu Email Contact: dashana.rowlette@eku.edu

The schedule helpw is an **FXAMPI F** of how you can arrange your class schedule. Please consult your advisor for specific changes that may need to be made

	Fall Semester		Spring Semester		Course Number	Course Name
Freshman	SCO 100	1	AEM 301 (spring only)	3		ION & UNIVERSITY REQUIREMENTS (37)
/ear	AEM 201 (fall only)	3	AEM 390 (spring only)	3	SCO 100	Student Success Seminar (1)
	AEM 195	3	EET 251	3	000 000	
	GCHE 101/101L <i>or</i> 111/111L	J	^G MAT 120 (or higher) (fulfills Gen.	J		QUIREMENTS (37-38)
	(fulfills Gen. Ed 4)	4	Ed. 2)	3	AEM 195 AEM 202	Computer Aided Drafting (3) Introduction to Quality (3)
			1		AEM 308	Methods of Lean Operations (3) (fall only)
	TEC 161	3	Gen. Ed. 1B (ENG 102)	3	AEM 310	Technical Communication (3)
	Gen. Ed. 1A <u>(ENG 101)</u>	3	Gen. Ed. 1C (Oral Comm.)	3	AEM 332 AEM 349	Process Control and Auditing (3) Applied Learning I Industrial Technology (1)
					AEM 408	Human Resource Development (3)
	TOTAL	17	TOTAL	18	AEM 499 AEM 706	Senior Capstone Project (3) (spring only) Six Sigma Quality (3)
Sophomore	AEM 310	3	AEM 202	3	AEM 801	Economics for Lean Operations (3)
Year	AEM 352 (fall only)	3	MAT 211 (or higher)	3	AEM 804 STA 215 or	Project Management (3) Introduction to Statistical Reasoning (3)
	AEM 371 (fall only)	3	AEM Elective (upper division)	3	STA 270	Applied Statistics (4)
	AEM Elective	3	AEM Elective (upper division)	3	TEC 161	Computer Applications in Technology (3)
			,	3	MANUFACTURING AEM 201	CONCENTRATION REQUIREMENTS (30) Metallic Material Processes (3) (fall only)
	STA 215 <u>or</u> 270	3-4	Gen. Ed. 3B (Humanities)	3	AEM 301	Non-Metallic Material Processes (3) (spring only)
	^G ECO 120 <u>or</u> ^G ECO 230 (fulfills		Free Elective <u>or</u> Gen. Ed. 5B (if ACC		AEM 330	Materials Testing and Metrology (3) (fall only)
	Gen. Ed. 5B) <u>or</u> ACC 200	3	200 taken)	3	AEM 352 AEM 371	Robotics and Automated Systems (3) (fall only) Hydraulics and Pneumatics (3) (fall only)
					AEM 390	3-D Parametric Solid Modeling (3) (spring only)
	TOTAL	18-	TOTAL	18	PLUS NINE (9) HOURS	Electricity and Electronics (3) selected from the following technical elective: (AEM Electi
		19				upper division courses.)
lunior	AEM 308 (fall only)	3	AEM 332 (spring only)	3	AEM 336	Reliability and Sampling (3)
			1 2 77		AEM 382 AEM 383	Advanced Material Processing (3) CAD/CAM Integration (3)
Year	AEM 330 (fall only)	3	AEM 408	3	AEM 392	Computer Aided Machine Drawing (3) (fall only)
	AEM 349	1	AEM 467	0	AEM 395 AEM 397	Special Topics in AEM: (3) Advanced Machine Drawing (3)
	AEM 706 (fall only) (also fulfills	3	AEM 499 (ACCT) (spring only)	3	AEM 530 <u>or</u>	Design of Experiments (3)
	MS requirement)		AEM 801 (also fulfills MS	3	STA 585 CON 303	Experimental Design (3)
	AEM 804 (also fulfills MS	3	requirement)		EET 252	Statics and Strength of Materials (3) Digital Electronics (3)
	requirement)		Gen. Ed. 6 (Diversity)	3	EET 257	Electronic Devices and Circuits (3)
	^G PHY 131 (fulfills Gen. Ed. 4)	5	Gen. Ed. 6 (Biversity)	9	EET 351 NET 303	Programmable Logic Controllers (3) LANs & PC Communications (3)
	Fill 131 (Juljilis Gen. Lu. 4)	3			NET 440	Wired/Wireless Communications (3)
						SUPPORTING COURSE REQUIREMENTS (6-9)
	TOTAL	18	TOTAL	15	G CHE 101 AND CHE 101L or	Introductory Chemistry (3) Introductory Chemistry Lab I (1)
Senior	Gen. Ed. 3A (Arts)	3	AEM 802	3	G*CHE 111 AND	General Chemistry I (3)
r ear	Gen. Ed. 5A (History)	3	TEC 860 <u>or</u> AEM 821	3	65 CHE 111L	General Chemistry Lab I (1)
	Gen. Ed. 6 (Diversity)	3	AEM Supporting Course Elective	3	⁶ ECO 120 <u>or</u> ⁶ ECO 230 or	Economic Reasoning and Issues (3) Fundamentals of Microeconomics (3)
	Free Elective	3	(graduate)		* ACC 200	Survey of Accounting (3)
	Free Elective	3-4	(3)		^G *MAT 120 <u>AND</u> *MATH 211 or	Trigonometry (3) Applied Calculus (3)
	Tree Elective	٠,			6 hours of higher	
	(Undergraduate Complete = 120 hrs)				⁶ *PHY 131	College Physics I (5) acketed items must be taken concurrently
	Tondergraduate Complete - 120 msj				FREE ELECTIVES (6	
				_		REMENT (0 – Credit Only)
	TOTAL	15-	TOTAL	9	AEM 467	Comprehensive Exam for BS in ETM (credit on
		16				
3raduate <u>SUMI</u>	MER SEMESTER					MANAGEMENT REQUIREMENTS
	TEC 830	3			CORE COURSE REC	QUIREMENTS (15) (30 total; Nine (9) credits from AEM 70 4 are counted in the undergraduate program)
		3			AEM 801	Economics for Lean Operations (3)
	AEM Supporting Course Elective	3			AEM 804	Project Management (3)
	(graduate)				TEC 830	Creative Problem Solving (3)
	TOTAL	6			(TEC 860 or	elected from (Synthesis Experience): Research in Technology (3)
Graduate Fall	AEM 805	3			AEM 821 AND	Industrial Technology Project (3)
					AEM 821 <u>or</u> AEM 839	Industrial Technology Project (3)
	AEM 821 <u>or</u> AEM 839	3				Applied Learning in Tech Management (3) TIONS CONCENTRATION REQUIREMENTS (9)
	GRD 867C <u>or</u> GRD 868b	0			AEM 706	Six Sigma Quality (3)
	TOTAL	6			AEM 802	Productivity Assessment and Analysis (3)
	IOIAL				AEM 805 SUPPORTING COURSE	Industrial Operations Research (3) REQUIREMENTS
						tional course work to fulfill requirements.
TOTAL HOURS TO DEGREE COMPLETION 144						tional course work to fullill requirements.
PREREQUISITES: Consult with your advisor and/or the University catalog regarding prerequisites for upper division AEM, EET, NET, and TEC courses.					EXIT REQUIREMENT	
	rith your advisor and/or the University catalog regarding prer athematics may be required before admittance into MAT 120		r upper aivision AEM, EET, NET, and TEC courses.		GRD 867C <u>or</u>	MS Applied Engineering and Technology Management Written Comprehensive Exam
erequisites are marked for supporting courses only.					GRD 868B	MS Applied Engineering and Technology Management
						Oral Comprehensive Exam

Upper division courses: All students are required to have a minimum of 42 hrs. upper division (300 level or above) courses distributed throughout Major/Supporting/Gen Ed/Free Electives categories).

Refer to the University Catalog at http://www.catalogs.eku.edu/ regarding University and General Education Requirements.

GKD 969B MS Applied Engineering and Technology Management Oral Comprehensive Exam

Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.

Denotes that a prerequisite is required to be admitted into the course.