CURRICULUM GUIDE School of Engineering, Aviation, Construction, and Technology Engineering Technology Management, B.S. (Manufacturing Concentration) 2023-2024

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The schedule below is an **EXAMPLE** 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	Course Name
					GENERAL EDUC	ATION & UNIVERSITY REQUIREMENTS (37)
Freshman	SCO 100	1	AEM 390	3	SCO 100	Business and Technology Orientation (1)
Year	AEM 201	3	^e CHE 101 <u>or</u> 111 (fulfills Gen.			
i cui	AEM 195	3	Ed. 4)	3	CORE COURSE R	EQUIREMENTS (34)
	⁶ MAT 120 (or higher) (fulfills	3	CHE 101L <u>or</u> 111L	1	AEM 195	Computer Aided Drafting (3)
	Gen. Ed. 2)		EET 251	3	AEM 202	Introduction to Quality (3)
	TEC 161	3	Gen. Ed 1B (<i>ENG 102</i>)	3	AEM 308	Methods of Lean Operations (3)
	Gen. Ed. 1A (<i>ENG 101</i>)	3	Gen. Ed. 1C (<i>Comm.</i>)	3	AEM 310	Technical Communication (3
					AEM 332	Process Control and Auditing (3)
					AEM 349	Applied Learning in Industrial Technology (1)
	TOTAL	16	TOTAL	16	AEM 407	Fundamentals of Project Management (3) (fall only)
Sonhomore	⁶ ECO 230 <u>or</u> ⁶ 130 (fulfills Gen.		AEM 202	3	AEM 408	Human Resources Development (3)
Sophomore	Ed. 5B) or ACC 200	3	AEM 301 (spring only)	3	AEM 499	Senior Capstone Project (3) (spring only)
Year	^G PHY 131 (fulfills Gen. Ed. 4)	5	‡ AEM Technical Elective	3	CON 420	Engineering Economy (3)
	STA 215	3	MAT 211 (or higher)	3	STA 215	Computer Applications in Technology (2)
	Free Elective	3	Gen. Ed. 5A (History)	3	MANUEACTUR	Computer Applications in Technology (3)
		0		Ũ	AFM 201	Metallic Material Processos (2)
					AEM 301	Non-Metallic Material Processes (3) (spring
	τοτοι	14	τοται	15	ALIVI SUI	only)
	TOTAL	14	TOTAL	15	AEM 330	Materials Testing and Metrology (3)
lunior	AEM 308	3	AEM 332	3	AEM 352	Robotics and Automated Systems (3)
Junioi	AFM 310	3	CON 420	3	AEM 371	Hydraulics and Pneumatics (3) (spring only)
Year	AFM 330	3	± AFM Technical Elective	5	AEM 390	3-D Parametric Solid Modeling (3)
	AEM 330	J 1	(unper division)	2	EET 251	Electricity and Electronics (3)
	+ AEM Tochnical Elective	1	Con Ed 2P (Humanitias)	2	‡ PLUS TWELVE	(12) HOURS selected from the following
	+ AEIVI TECHNICal Elective	2	Gen. Eu. 3B (Humunities)	5	technical electiv	res (NINE (9) hours must be upper division):
	(upper division)	3	Free Elective (or Gen. Ed. 5B If	2	AEM 336	Reliability and Sampling (3)
	Gen. Ed. 3A (Arts)	3	ACC 200 taken)	3	AEIVI 382	Advanced Material Processing (3)
					AEIVI 383	CAD/CAW Integration (3)
	TOTAL	16	TOTAL	15	ALIVI 332	only)
Senior	AEM 352	3	AEM 408	3	AEIVI 395	Special topics in AEIVI: (2-3)
V	AEM 371	3	AEM 467	0	AEIVI 597	Six Sigma Quality (2)
Year	AEM 407 (fall only)	3	AEM 499 (ACCT) (spring only)	3	AEM 530 or	Design of Experiments (3)
	Free Elective	4	‡ AEM Technical Elective		STA 585	Experimental Design (3)
	Gen. Ed. 6 (<i>Diversity</i>)	3	(upper division)	3	CON 303	Statics and Strength of Materials (3)
			Gen. Ed. 6 (Diversity)	3	EET 252	Digital Electronics (3)
					EET 257	Electronic Devices and Circuits (3)
					EET 351	Programmable Logic Controllers (3)
					NET 303	LANs and PC Communications (3)
	TOTAL	16	TOTAL	12	NET 440	Wired/Wireless Communications (3)
			•		SUPPORTING CO	DURSE REQUIREMENTS (6-9)
		TOTAL	HOURS TO DEGREE COMPLETION	120	G CHE 101 and	Introductory Chemistry I (3)
					CHE 101L (DR Introductory Chemistry I Lab (1)

* PREREQUISITES: Consult with your advisor and/or the University catalog regarding prerequisites for upper division courses in your major.

Upper division courses: All students are required to have a minimum of 42 hrs. upper division (300level 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.

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

REQUIRED)

General Chemistry I (3)

General Chemistry I Lab (1)

Survey of Accounting (3))

Exit Exam for BS in AEM (0) (EXAM FEE

Trigonometry (3)

Applied Calculus (3)

College Physics (5) Bracketed items must be taken concurrently.

Economic Reasoning and Issues (3)

Principles of Microeconomics (3)

[^G CHE 111 <u>and</u> CHE 111L

^G ECO 120 <u>or</u>

ACC 200

^G MAT 120

MAT 211

PHY 131

AEM 467

^G ECO 230 <u>or</u>

EXIT REQUIREMENT (0)