Mechanical Engineering - Bachelor of Science

Central Connecticut State Univerisity - Department of Engineering

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	General Education	Minimum Credit Hour	40
STUDY AREAS:			Crd
I	Arts & Humanities[1]		
	Literature (200 Level or higher)		3
	PHIL or Fine Arts		3
	Literature or PHIL or Fine Arts		3
II	Social Sciences[2]		
	History		3
	ECON or GEOG or HIST or POL. SCI. or ET 399		3
III	Behavioral Sciences[3]		
	Anthropology or Psychology or Sociology		3
IV	Natural Sciences (8 credits)		
	PHYS 125-Univ Physics I		4
	PHYS 126-Univ Physics II		4
SKILL AREAS:			
I	Communication Skills		
	WRT 110 Introduction to College Writing		3
	ENGR 290-Engineering Technical Writing & Present	(S/F)	3
II	Mathematics[4]		
	MATH 152-Calculus I		4
	MATH 221- Calculus II		4
III	Foreign Language[5]		0-6
IV	University Requirements[6]		
	PE 144 College Welness		2 or 3

International Requirement[7]	6

Equity, Justice, and Inclusion Requirement[8]	3

† ME 458 (F) or ME 459 (S)

†† ME 340 or ME 360 or ME 403 or ME 452 or ME 460 or ME 461 or ME 463 or ME 465 or ME 466 or ME 470 or ME 480 or ME 483 or ME 485 or ME 486 or ME 487 or ME 488.

††† ME 340 or ME 360 or ME 403 or ME 452 or ME 460 or ME 461 or ME 463 or ME 465 or ME 466 or ME 470 or ME 480 or ME 483 or ME 485 or ME 486 or ME 487 or ME 488 r ENGR 490 or ETM 340 or ETM 360 or ETM 461 or ETM 464 or ETM 466 or ET 399 or ET 495 or MM 226 or TM 464.

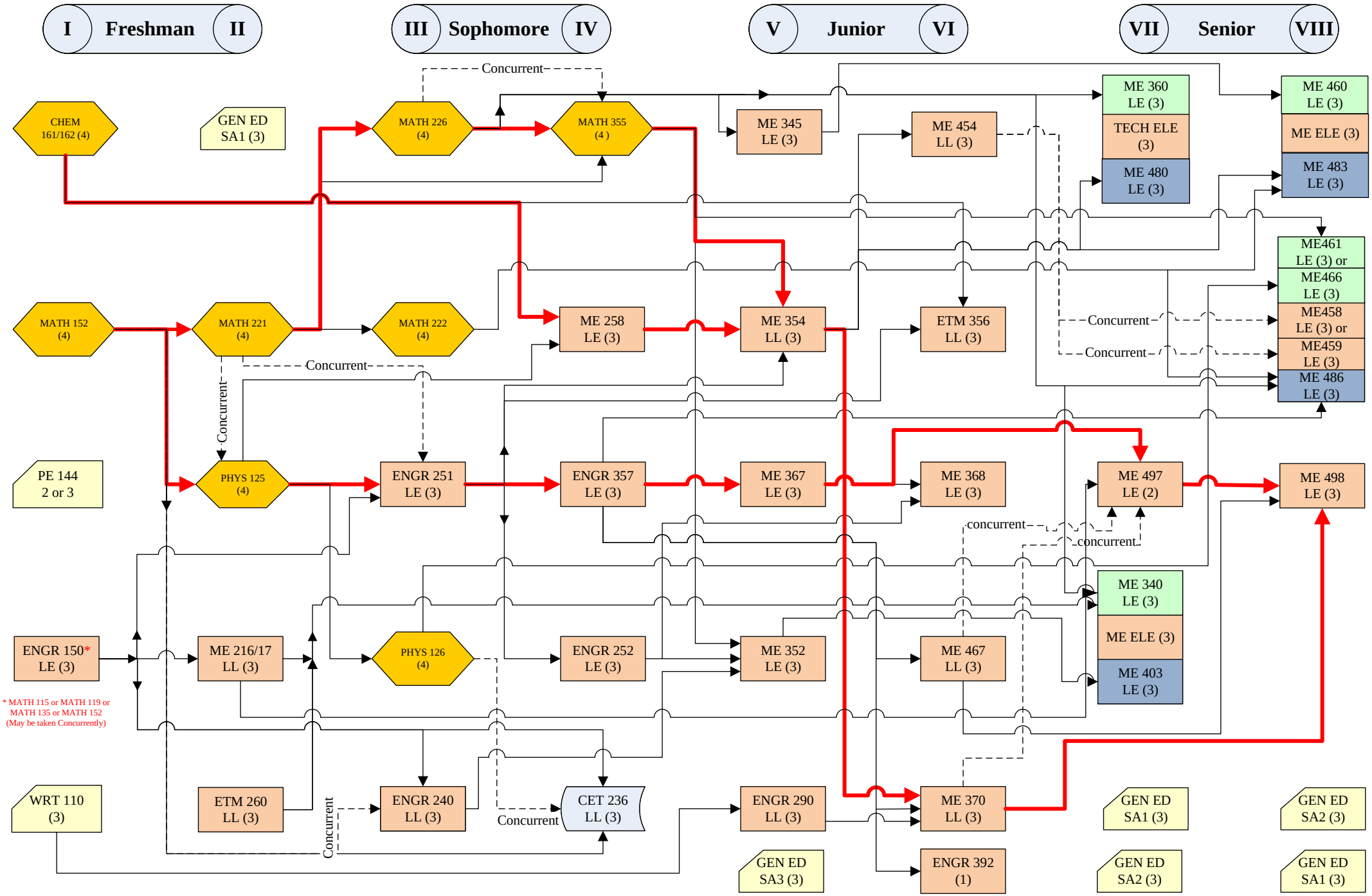
†††† ME 461 (S) or ME 466 (F)

	Major Requirements		Total Credit Hours	47	
	Course #	Course Name	Crd	F	S
	ENGR 150	Introduction to Engineering[9]	3	X	X
	ENGR 251	Engineering Mechanics I- Statics	3	X	X
	ENGR 252	Engineering Mechanics II - Dynamics	3	X	X
	ENGR 357	Mechanics of Materials	3	X	X
	ME 216	Manufacturing Engineering Processes	2	X	X
	ME 217	Manufacturing Engineering Processes Lab	1	X	X
	ME 258	Engineering Thermodynamics	3	X	X
	ME 345	Engineering Statistical Analysis of Operations	3	X	X
	ME 352	Modeling and Control of Dynamic Systems	3	X	X
	ME 354	Fluid Mechanics	3	X	X
	ME 367	Machine Design I	3	X	X
	ME 368	Machine Design II	3	X	X
	ME 370	Instrumentation	3	X	X
	ME 454	Heat Transfer	3	X	X
	ME 467	Finite Element Analysis with Applications	3	X	X
	ME 497	Senior Project I: Project Research	2	X	X
	ME 498	Senior Project II: Project Design	3	X	X
	Concentration Areas	Total Credit Hours	12		
	General Concentration (All four courses in this group)				
General	†	ME Elective 1	3	X	X
General	††	ME Elective 2	3	X	X
General	††	ME Elective 3	3	X	X
General	†††	Technical Elective	3	X	X
	Aerospace Concentration (ALL four Courses in this group)				
Aerospace	ME 403	Aerospace Control Systems	3	X	
Aerospace	ME 480	Propulsion Systems	3	X	
Aerospace	ME 483	Aerodynamics	3		X
Aerospace	ME 486	Aerospace Structures and Materials	3		X
	Manufacturing Concentration (All four courses in this group)				
Manufacturing	ME 340	Geometric Dimensioning & Tolerancing for Mechanical D	3	X	X
Manufacturing	ME 360	Manufacturing Operations Analysis and Simulation	3	X	
Manufacturing	ME 460	Manufacturing System Design	3		X
Manufacturing	††††	Manufacturing Engineering Elective	3	X	X
	Additional Requirements	Total Credit Hours	29		
	CET 236	Circuit Analysis	3	X	X
	ETM 260	Comp. Aided Design & Integrated Manuf.	3	X	X
	ETM 356	Materials Analysis	3	X	X
	ENGR 392	Engineering Practicum (400 hours)	1	X	X
	ENGR 240	Computational Methods for Engineering	3	X	X
	CHEM 161	General Chemistry	3	X	X
	CHEM 162	General Chemistry Laboratory	1	X	X
	MATH 222	Calculus III	4	X	X
	MATH 226	Linear Algebra and Probability for Engineers	4	X	X
	MATH 355	Introduction to Differential Equations	4	X	X
Total Number of Credits			128		

1 Study Area I Choices Link
2 Study Area 2 Choices Link
3 Study Area 3 Choices Link
4 Math Requirements Link
5 Foreign Language Requirements Link
6 Study Area IV Requirements Link
7 International Requirements Link
8 Equity, Justice and Inclusions Requirements Link
9 MATH 115 or MATH 119 or MATH 135 or MATH 152 (May be taken Concurrently)

CCSU – Department of Engineering – Mechanical Engineering Program Flowchart

Updated Fall 2023



Updated 11/21/2023 by Dr. Amaya

Bold Lines Represent Critical Paths

Dashed Lines Represent Concurrent Classes