CCSU-Department of Engineering | www.ccsu.edu/engineering/programs/mechanicalEngineeringBS.html

Tel: (860) 832-1815; Fax: (860) 832-1811 | Entry | Fall ☐ | Spring ☐ | Year:

Degree: Bachelor of Science in Bachelor of Science in Mechanical Engineering, Minor: Mathematics (non-teaching)

Effective: SPRING 21

Last updated: 6/24/2021

General Education — Minimum Credit Hours: 40

	STUDY AREAS:	Crd
I	Arts & Humanities (9 credits)	
	Literature	3
	PHIL or Fine Arts	3
	Literature or PHIL or Fine Arts	3
II	Social Sciences (6 credits)	
	History	3
	ECON or GEOG or HIST or POL. SCI. or ET 399	3
III	Behavioral Sciences (3 credits)	
	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 (6 credits)	
	WRT 110 Introduction to College Writing	3
	ENGR 290-Engineering Technical Writing & Presentation	3
II	Mathematics * (8 credits)	
	MATH 152-Calculus I	4
	MATH 221- Calculus II	4
III	a. Foreign Language (0-6 credits)**	
III	b. International (6 credits)***	
IV	University Requirements (2-3 credits)****	
	PE 144-Fitness/Wellness	2 or 3

* Placement examination may be required before enrolling in English and Mathematics.

** See the University catalog, http://ccsu.smartcatalogiq.com/current/Undergraduate-Graduate-Catalog/Undergraduate-General-Education-Program/Skill-Area-III-Foreign-Language-Proficiency

*** See the University catalog http://ccsu.smartcatalogiq.com/en/current/Undergraduate-Graduate-Catalog/Undergraduate-General-Education-Program/International-Requirement

† ME 458 or ME 459

†† 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 or ME 466

Major Requirements — Total Credit Hours: 47

	Course #	Course Name	Crd	F	S
	ENGR 150	Introduction to Engineering	3	X	
	ENGR 251	Engineering Mechanics I- Statics	3	X	
	ENGR 252	Engineering Mechanics II - Dynamics	3		X
	ENGR 357	Mechanics of Materials	3		X
	ME 216	Manufacturing Engineering Processes	2		X
.	ME 217	Manufacturing Engineering Processes Lab	1		X
	ME 258	Engineering Thermodynamics	3		X
	ME 345	Engineering Statistical Analysis of Operations	3	X	
	ME 352	Modeling and Control of Dynamic Systems	3	X	
	ME 354	Fluid Mechanics	3	X	
	ME 367	Machine Design I	3	X	
	ME 368	Machine Design II	3		X
	ME 370	Instrumentation	3		X
	ME 454	Heat Transfer	3		X
	ME 467	Finite Element Analysis with Applications	3	X	
	ME 497	Senior Project I: Project Research	2	X	
	ME 498	Senior Project II: Project Design	3		X

Concentration Areas — Total Credit Hours: 12

General Concentration (All four courses in this group)

General	†	ME Elective 1	3		X
	††	ME Elective 2	3	X	
	††	ME Elective 3	3	X	
	†††	Technical Elective	3		X

Aerospace Concentration (ALL four Courses in this group)

Aerospace	ME 403	Aerospace Control Systems	3		X
	ME 480	Propulsion Systems	3	X	
	ME 483	Aerodynamics	3		X
	ME 486	Aerospace Structures and Materials	3		X

Manufacturing Concentration (All four courses in this group)

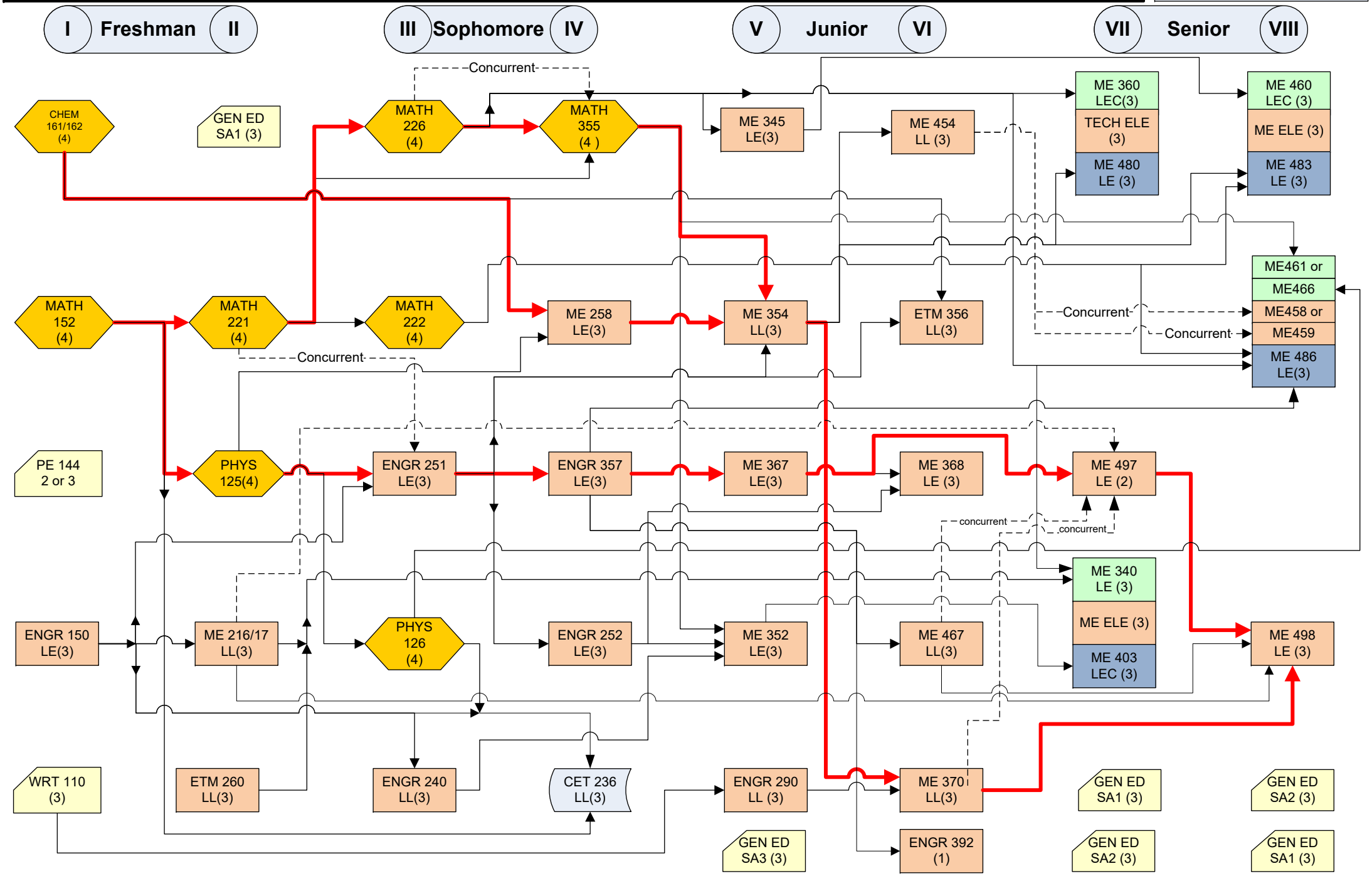
Manufacturing	ME 340	Geometric Dimensioning & Tolerancing for Mechanical Desig	3	X	
	ME 360	Manufacturing Operations Analysis and Simulation	3	X	
	ME 460	Manufacturing System Design	3		X
	††††	Manufacturing Engineering Elective	3	X	X

Additional Requirements — Total Credit Hours: 29

CET 236	Circuit Analysis	3		X
ETM 260	Comp. Aided Design & Integrated Manuf.	3		X
ETM 356	Materials Analysis	3		X
ENGR 392	Engineering Practicum (400 hours)	1		X
ENGR 240	Computational Methods for Engineering	3	X	
CHEM 161	General Chemistry	3	X	
CHEM 162	General Chemistry Laboratory	1		
MATH 222	Calculus III	4	X	
MATH 226	Linear Algebra and Probability for Engineers	4	X	
MATH 355	Introduction to Differential Equations	4		X
Total Number of Credits		128		

CCSU – Department of Engineering – Mechanical Engineering Program Flowchart

SPRING 20



Updated 9/13/2020 by Dr. Al-Masoud

Bold Lines Represent Critical Paths