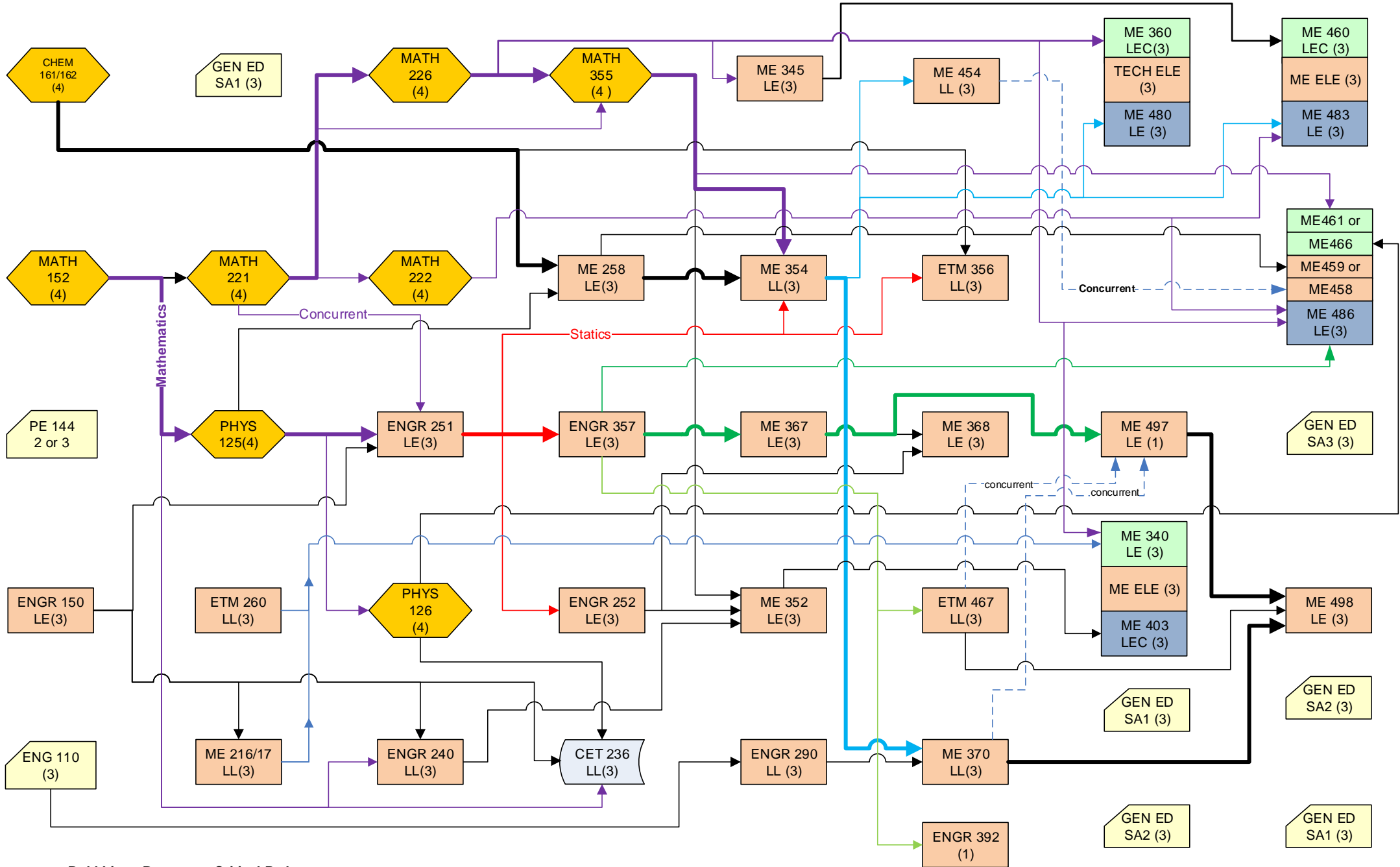


CCSU-Department of Engineering		Name: _____ # _____		Advisor: _____			
Tel: (860) 832-1815; Fax: (860) 832-1811		Entry	Fall <input type="checkbox"/>	Spring <input type="checkbox"/>	Year 20 _ _	Transfer Credit	Effective
Web: http://www.ccsu.edu/page.cfm?p=6656		Major	Mechanical Engineering			Fall 2015	
Degree: Bachelor of Science		Minor:	Mathematics (non-teaching)			Updated	Sep 10 15
General Education Minimum Credit Hours 40		Major Requirements			Total Credit Hours 43		
STUDY AREAS:		Crds	Course #	Course Name	Crds	F	S
I Arts & Humanities (9 credits)			ENGR 150	Introduction to Engineering	3	X	
Literature	3	ENGR 251	Engineering Mechanics I - Statics	3	X		
PHIL or Fine Arts	3	ENGR 252	Engineering Mechanics II - Dynamics	3		X	
Literature or PHIL or Fine Arts	3	ENGR 357	Mechanics of Materials	3		X	
II Social Sciences (6 credits)			ME 216/217	Manufacturing Engineering Processes/ Manu. Eng. Proc. Lab	3		X
History	3	ME 258	Engineering Thermodynamics	3		X	
ECON or GEOG or HIST or POL. SCI. or ET 399	3	ME 345	Engineering Statistical Analysis of Operations	3	X		
III Behavioral Sciences (3 credits)			ME 352	Modeling of Dynamic Systems	3	X	
Anthropology or Psychology or Sociology	3	ME 354	Fluid Mechanics	3	X		
IV Natural Sciences (8 credits)			ME 367	Machine Design I	3	X	
PHYS 125-Univ Physics I	4	ME 368	Machine Design II	3		X	
PHYS 126-Univ Physics II	4	ME 370	Instrumentation	3		X	
SKILL AREAS:			ME 454	Heat Transfer	3		X
I Communication Skills (6 credits)			ME 497	Senior Project I: Project Research	1	X	
ENG 110 - Introductn to College Writing	3	ME 498	Senior Project II: Project Design	3		X	
ENGR 290-Engineering Technical Writing & Presentation	3	Concentration Areas		Total Credit Hours		12	
II Mathematics * (8 credits)		General Concentration					
MATH 152-Calculus I	4	†	ME Elective 1	3		X	
MATH 221- Calculus II	4	††	ME Elective 2	3	X		
III a. Foreign Language (0-6 credits)**		††	ME Elective 3	3	X		
		†††	Technical Elective	3		X	
III b. International (6 credits)***		Aerospace Concentration					
		ME 403	Control of Dynamic Systems	3		X	
		ME 480	Propulsion Systems	3	X		
		ME 483	Aerodynamics	3		X	
		ME 486	Aerospace Structures and Materials	3		X	
IV University Requirements (2-3 credits)****		Manufacturing Concentration					
PE 144-Fitness/Wellness	2 or 3	ME 340	Geometric Dimensioning & Tolerancing for Mechanical Desig	3	X		
* Placement examination may be required before enrolling in English and Mathematics.		ME 360	Manufg. Operations Analysis and Simulation	3	X		
**Refer to University Catalog, Academic Programs for Foreign Language proficiency requirements. http://www.ccsu.edu/page.cfm?p=10617		ME 460	Manufacturing System Design	3		X	
*** Courses with the letter [I] have been designated as fulfilling the international component of the general education requirements. http://www.ccsu.edu/page.cfm?p=10626		††††	Manufacturing Engineering Elective	3	X	X	
† ME 458 or ME 459		Additional Requirements		Total Credit Hours		32	
†† ME 340 or ME 360 or ME 403 or ME 452 or ME 460 or ME 461 or ME 466 or ME 470 or ME 480 or ME 483 or ME 486 or ME 485 or ME 487 or ME 488 or ENGR 487, ME 488.		CET 236	Circuit Analysis	3		X	
††† ME 340 or ME 360 or ME403 or ME 452 or ME 460 or ME 461 or ME 466 or ME 470 or ME 480 or ME 483 or ME 486 or ME 485 or ME 487 or ME 488 or ENGR 490 or ETM 340 or ETM 360 or ETM 461 or ETM 462 or ETM 464 or ETM 466 or ET 399 or ET 495 or MFG 226 or TM 464 or ROBO 480.		CHEM161/62	General Chemistry I	4	X		
†††† ME 461 or ME 466		ENGR 240	Computational Methods for Engineering	3	X		
		ETM 260	Comp. Aided Design & Integrated Manuf.	3		X	
		ETM 356	Materials Analysis	3		X	
		ETM 467	Applied Finite Element Analysis	3	X		
		MATH 222	Calculus III	4	X		
		MATH 226	Linear Algebra and Probability for Engineers	4	X		
		MATH 355	Introduction to Differential Equations	4		X	
		ENGR 392	400 hrs Field Practicum	1		X	
Total Number of Credits					127		

CCSU – Department of Engineering – Mechanical Engineering Program Flowchart

Effective Fall 2015

I Freshman II III Sophomore IV V Junior VI VII Senior VIII



Bold Lines Represent Critical Paths