

Department of Engineering
 Central Connecticut State University
 New Britain, Connecticut 06050
 Tel: (860) 832-1815; Fax: (860) 832-1811
 Web: technology.ccsu.edu

Name: _____
 ID#: _____ E-mail: _____
 Entry: Fall ___ Spring ___ Summer ___ Year ___ Transfer Credits ___
 Advisor: _____

Degree: Bachelor of Science

Major: Mechanical Engineering

Effective: FALL 2009

Minor: Mathematics

General Education	Crs
STUDY AREAS:	
I. Arts & Humanities (9 credits)	
English Literature	3
PHIL or Fine Arts	3
English 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)	
ENG 110-Freshman Composition*	3
COMM 140-Public Speaking	3
II. Mathematics *	
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.

**Refer to University Catalog, Academic Programs for Foreign Language proficiency requirements.

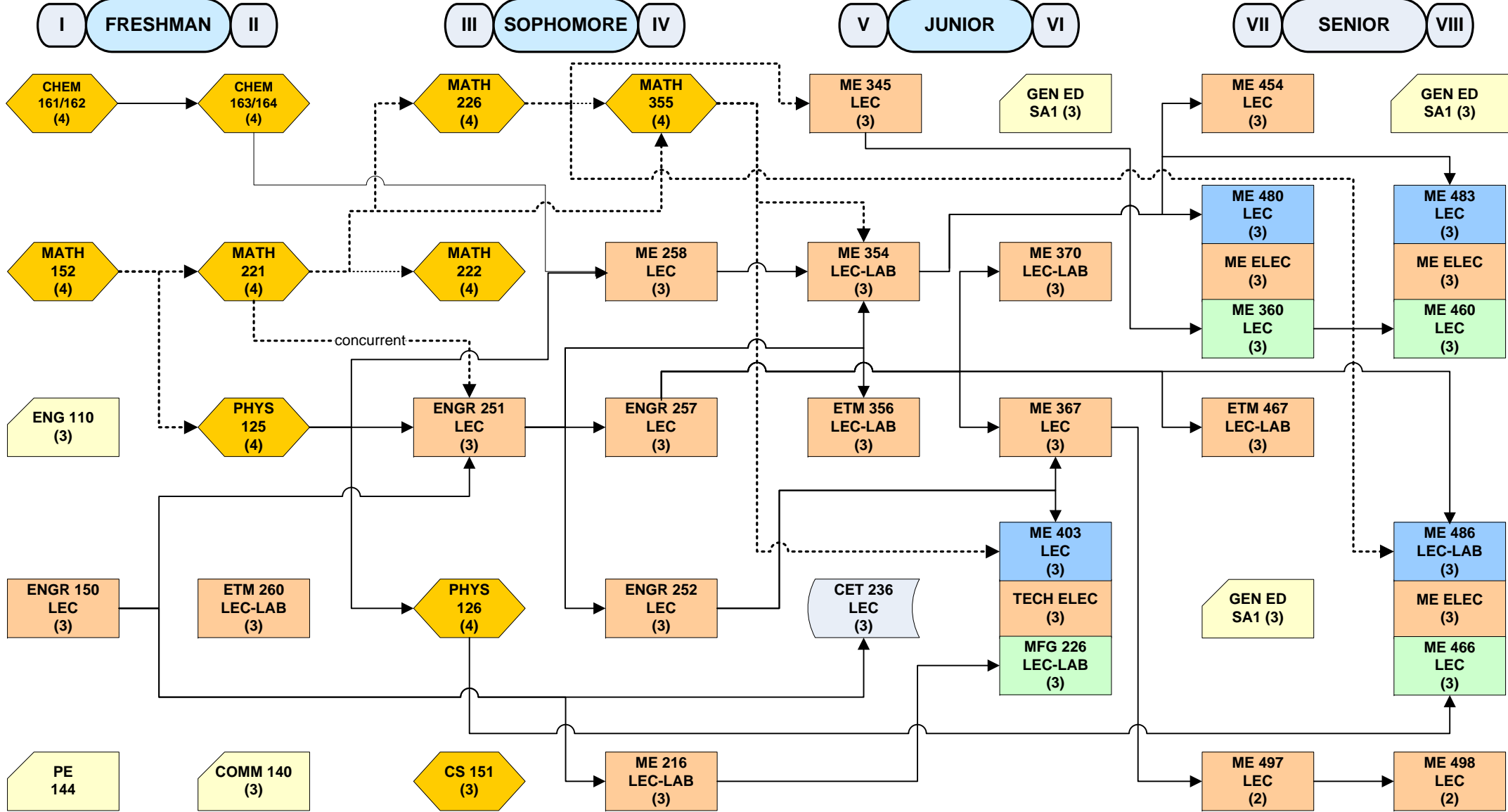
***Courses with designator [I] in course description fulfill not only the General Ed. requirement, but also fulfill the international component.

****Refer to University Catalog.

Major Requirements			Sem.	
Course #	Course Name	Crs	F	S
ENGR 150	Introduction to Engineering	3	X	X
ENGR 251	Engineering Mechanics I- Statics	3	X	
ENGR 252	Engineering Mechanics II - Dynamics	3		X
ENGR 257	Mechanics of Materials	3		X
ME 216	Manufacturing Engineering Processes	3		X
ME 258	Engineering Thermodynamics	3		X
ME 345	Engineering Statistical Analysis of Operations	3	X	
ME 354	Fluid Mechanics	3	X	
ME 367	Machine Design	3		X
ME 370	Instrumentation	3		X
ME 454	Heat Transfer	3	X	
ME 497	Senior Project I: Project Research	2	X	
ME 498	Senior Project II: Project Design	2		X
Electives or Specialization Requirements				
General Engineering Electives				
	Technical Elective	3		X
	ME Elective	3	X	
	ME Elective	3		X
	ME Elective	3		X
Aerospace Specialization				
ME 403	Mechanical Systems and Control	3		X
ME 480	Propulsion Systems	3	X	
ME 483	Aerodynamics	3		X
ME 486	Aerospace Structures and Materials	3		X
Manufacturing Specialization				
MFG 226	Principles of Numerical Control	3		X
ME 360	Manufacturing Operations Analysis and Simulation	3	X	
ME 460	Manufacturing System Design	3		X
ME 466	Inventive Engineering Design	3		X
Additional Requirements				
CET 236	Circuit Analysis	3	X	X
CHEM 161/62	General Chemistry I	4	X	X
CHEM 163/64	General Chemistry II	4	X	X
CS 151	Computer Science I	3	X	X
ENG 403	Technical Writing	3	X	X
ETM 260	Computer Aided Design & Intergrated Manufacturing	3	X	X
ETM 356	Materials Analysis	3	X	X
ETM 467	CAE 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
Program Total Number of Credits			minimum	127
Field Practicum <input type="checkbox"/> YES <input type="checkbox"/> NO			maximum	135

Department of Engineering Mechanical Engineering Program Curriculum Flowchart

UPDATED - Jan 22, 2009



LEGEND

Engineering Courses			Math & Science Courses	General Ed.
General Mechanical Eng. Specialty	Aerospace Eng. Specialty	Manufacturing Eng. Specialty	Math Trail	

ENG 403 (3)

GEN ED SA3 (3)

GEN ED SA2 (3)

GEN ED SA2 (3)