

**ENGINEERING DEPARTMENT  
Central Connecticut State University**

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Name: \_\_\_\_\_

ID#: \_\_\_\_\_ E-mail: \_\_\_\_\_

Entry: Fall \_\_\_ Spring \_\_\_ Summer \_\_\_ Year \_\_\_\_\_ Transfer Credits \_\_\_\_\_

Advisor: \_\_\_\_\_

**General Education Study Areas:**

<b>I. Arts and Humanities (9 credits)</b>		<b>Crs</b>
Literature (200 level or higher)		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
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**IV. Natural Sciences (8 credits)**

PHYS 121 - Gen Physics or PHYS 125 - Univ Physics I		4
PHYS 122 - Gen Physics or PHYS 126 - Univ Physics II		4

**General Education Skill Areas:****I. Communication Skills (6 credits)**

WRT 110 - Intro to College Writing <sup>1</sup>		3
ENGR 290 - Engr Tech Writing & Presentation		3

**II. Mathematics (6 or 8 credits)<sup>1</sup>**

MATH 135 - Applied Engr. Calculus I or MATH 152 - Calc I		3 or 4
MATH 136 - Applied Engr. Calculus II or MATH 221 - Calc II		3 or 4

**III. Foreign Language Proficiency (0-6 credits)<sup>2</sup>**


**IV. University Requirement (2-3 credits)<sup>3</sup>**

PE 144-Fitness/Wellness (or ENGR 150 for Transfers)		2 or 3
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**International Requirement (6 credits)<sup>4</sup>**

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<b>Major Requirements</b>		<b>Crs</b>	<b>Sem.</b>	
			<b>F</b>	<b>S</b>
ENGR 150	Introduction to Engineering	3	X	X
ET 251	Applied Mechanics I (Statics)	3	X	X
ET 252	Applied Mechanics II (Dynamics)	3	X	X
ET 354	Applied Fluid Mechanics	3	X	X
ET 357	Strength of Materials	3	X	X
ET 361	Engineering Technology Instrumentation	3	X	X
ET 399	Engineering Economy	3	X	X
ETM 260	Computer Aided Design & Integrated Manufacturing	3	X	X
ETM 340	Geometric Dimensioning and Tolerancing [I]	3	X	X
ETM 356	Materials Analysis	3	X	X
ETM 358	Applied Thermodynamics	3	X	X
ETM 367	Machine Design	3	X	X
ETM 454	Applied Heat Transfer	3		X
ETM 462	Manufacturing Process Planning and Estimating	3	X	X
ETM 464	CAD Solid Modeling and Design	3	X	X
ETM 466	Design for Manufacture	3	X	X
ETM 467	Applied Finite Element Analysis	3	X	X
ETM 497	Engineering Technology Senior Project Research	2	X	X
ETM 498	Engineering Technology Senior Project (Capstone)	2	X	X
<b>Directed technical electives</b> such as ET 495; ETM 360; ETM 423; ETM 460; ETM 461; ETM 463; ETM 468; MM 226; MM 236; MM 390; ENGR 392; ENGR 490; ROBO 420; TM 464		5 to 9	X	X

**Additional Requirements**

MM 121	Mechanical CAD	3	X	X
MM 216	Manufacturing Processes	3	X	X
CET 236	Circuit Analysis	3	X	X
CHEM 161	General Chemistry	3	X	X
CHEM 162	General Chemistry - LAB	1	X	X
ROBO 330	Fluid Power Systems	3	X	
ENGR 240	Computational Methods for Engineering	3	X	X
MATH 119 <sup>5</sup>	Pre-Calculus with Trigonometry	4	X	X
STAT 104	Elementary Statistics	3	X	X

**TOTAL CREDITS 130**

Minimum grade of C- required in all courses in the major, all additional requirements, and all courses in Study Area IV, Skill Area I, and Skill Area II.

<sup>1</sup> Placement examination may be required before enrolling in initial English and Mathematics courses. Contact CCSU's Learning Center.

<sup>2</sup> Refer to the University Catalog, Undergraduate General Education Program, for Foreign Language proficiency requirements.

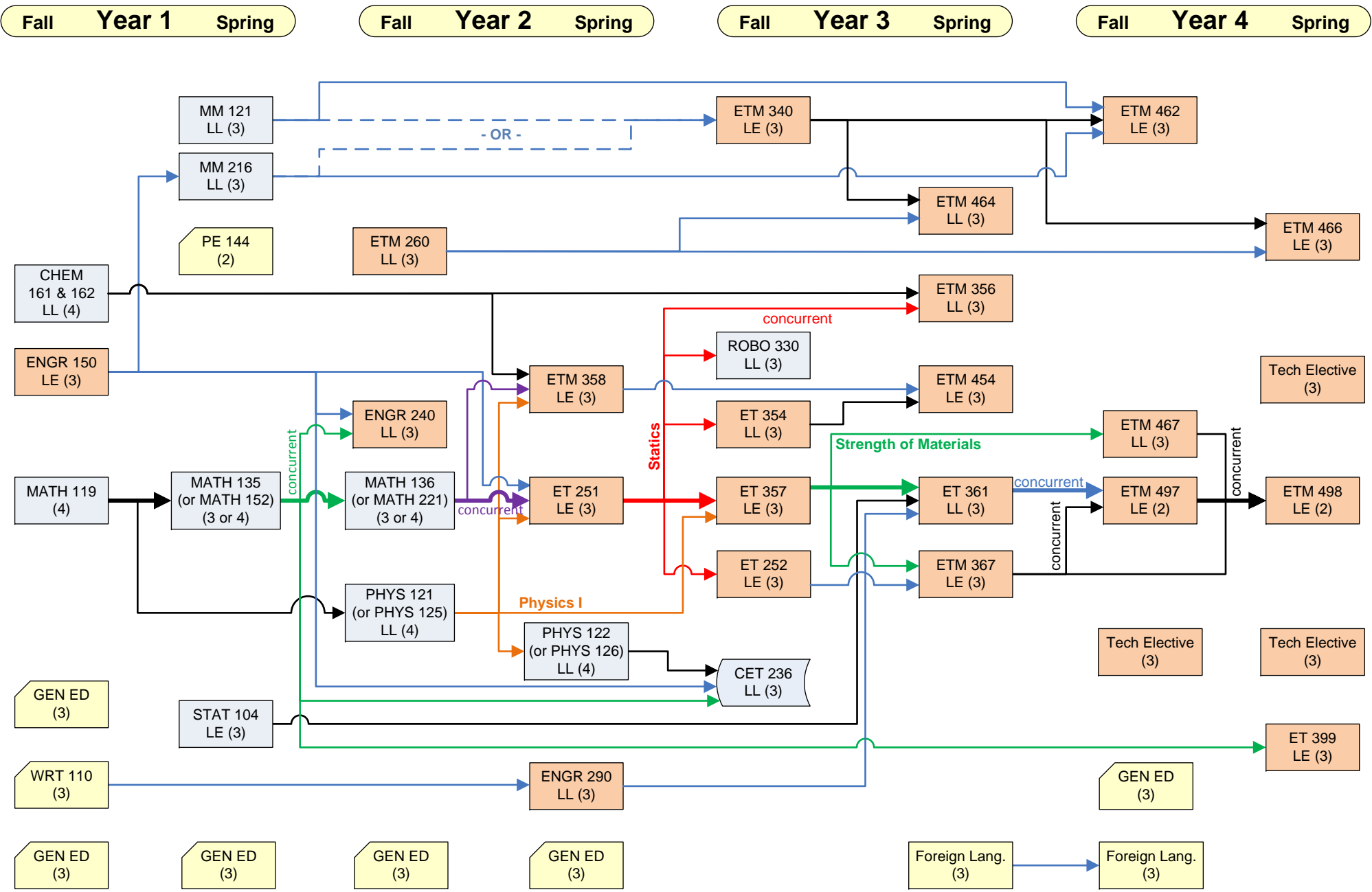
<sup>3</sup> Transfers entering with 15 or more credits may complete this requirement with 2 or 3 additional credits from any of the other skill areas or with: ENGR 150, COMM 115, COMM 140, CET 113, CS 113, CS 115, MATH 115, MIS 201, STAT 200.

<sup>4</sup> Courses with designator [I] in the course description can be double-counted to fulfill the International Requirement. Note that the required course ETM 340 fulfills 3 credits of the 6-credit International Requirement.

<sup>5</sup> MATH 116 (3 credit PreCalc) is acceptable but then Calc I will also require MATH 115 as a prereq. MATH 115 credits do not apply towards the degree. Refer to the University Catalog for additional information.

# CCSU – Mechanical Engineering Technology Program Flowchart

Effective Fall 2018



Bold lines represent the critical path, dashed lines represents choice of prerequisites (either is OK).  
The word "concurrent" indicates that two courses may be taken in the same semester.