

**ENGINEERING DEPARTMENT**  
**Central Connecticut State University**1615 Stanley St., New Britain, CT 06050  
Tel: (860) 832-1815Web: [www.ccsu.edu/engineering/](http://www.ccsu.edu/engineering/)Email: [DeptofEngineering@ccsu.edu](mailto:DeptofEngineering@ccsu.edu)**General Education Study Areas:**

<b>I. Arts and Humanities (9 credits)<sup>1</sup></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
ET 399 (or ECON or GEOG or HIST or POL. SCI.)		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>2</sup>		3
ENGR 290 - Engr Tech Writing & Presentation		3

**II. Mathematics (6 or 8 credits)<sup>2</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>3</sup>**

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**IV. University Requirement (2-3 credits)**

PE 144-Fitness/Wellness (or appropriate transfer credit <sup>4</sup> )		2 or 3
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**International Requirement (6 credits)<sup>5</sup>**

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**Equity, Justice, and Inclusion Requirement (3 credits)<sup>6</sup>**

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**Major Requirements:**

			<b>Crs</b>	<b>Sem.</b>	
				<b>F</b>	<b>S</b>
ENGR 150	Introduction to Engineering		3	X	X
ME 216	Manufacturing Engineering Processes		2	X	X
ME 217	Manufacturing Engineering Processes Lab		1	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

**Directed Technical Electives:**

Student chooses from courses such as ET 495; ETM 360; ETM 461; ETM 463; MM 226; MM 236; ENGR 392; ENGR 490; ROBO 420; TM 390; TM 464	8 to 12	X	X
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**Additional Requirements:**

MM 121	Mechanical CAD		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
ENGR 240	Computational Methods for Engineering		3	X	X
MATH 119 <sup>7</sup>	Pre-Calculus with Trigonometry		4	X	X
STAT 104	Elementary Statistics		3	X	X

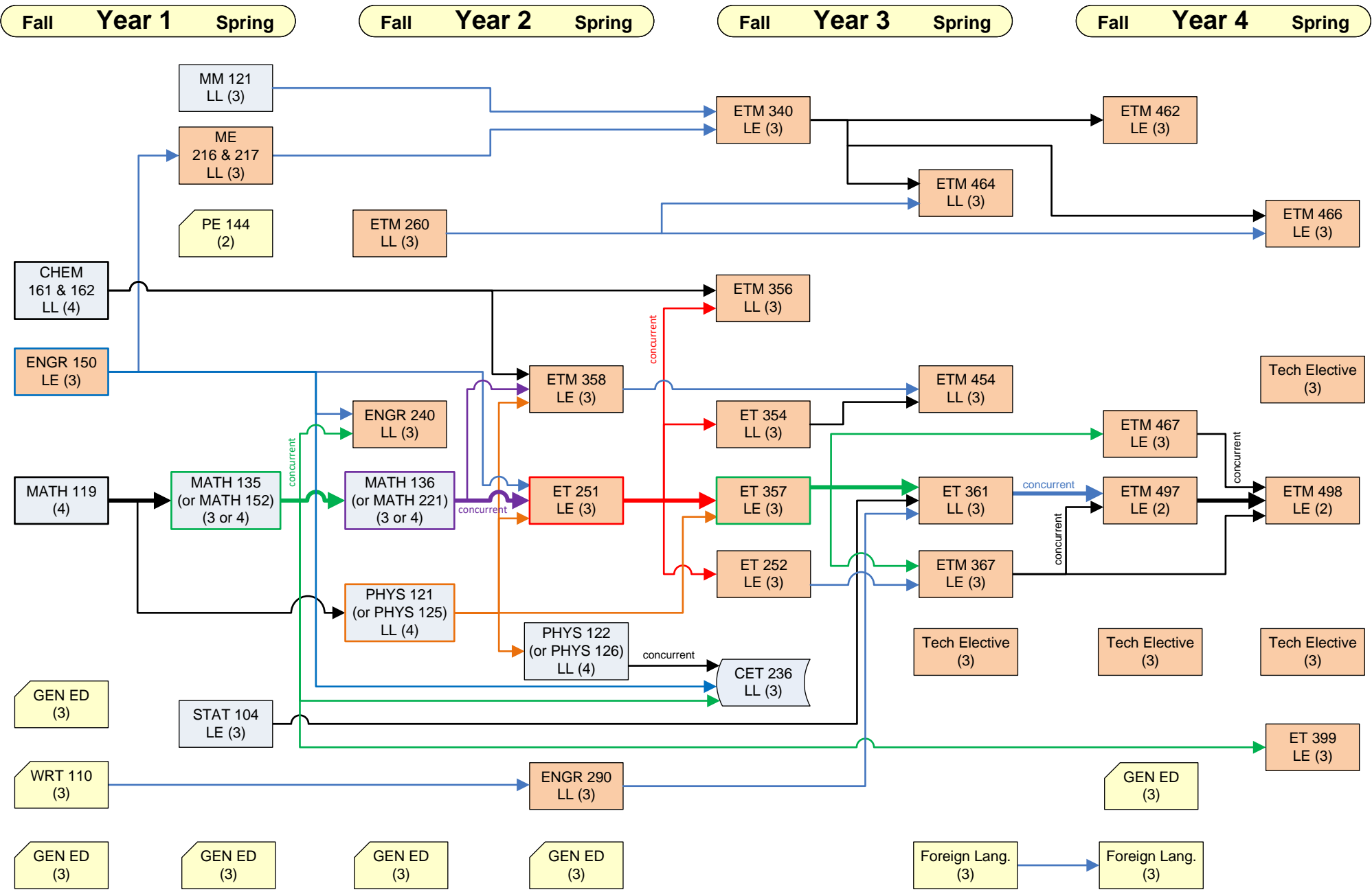
**TOTAL CREDITS 130**

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> For Study Area I, no more than 6 credits from any one discipline.<sup>2</sup> Placement examination may be required before enrolling in initial English and Mathematics courses. Contact CCSU's Learning Center.<sup>3</sup> Refer to the University Catalog, Undergraduate General Education Program, for Foreign Language proficiency requirements.<sup>4</sup> Transfers entering with 15 or more credits may fulfill this requirement with 2 or 3 additional credits from any of the four general education skill areas, or with ENGR 150 or other courses listed under "Skill Area IV. University Requirement" in the University Catalog.<sup>5</sup> Courses with the International designation 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>6</sup> Courses with the EJI designation can be double-counted to fulfill the Equity, Justice, and Inclusion Requirement.<sup>7</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 online University Catalog for additional information.

# CCSU – Mechanical Engineering Technology Program Flowchart

Effective Fall 2023



**Bold lines represent the critical path.**  
**The word "concurrent" indicates that two courses may be taken in the same semester.**