Major: **Mechanical Engineering Technology**	Degree: **Bachelor of Science**	Effective: Fall 2021

ENGINEERING DEPARTMENT
Central Connecticut State University
1615 Stanley Street
New Britain, Connecticut 06050
Tel: (860) 832-1815
Web: https://www.ccsu.edu/engineering/
Email: deptofengineering@ccsu.edu

Name:_____

ID#:_____ E-mail:_____

Entry: Fall_____ Spring_____ Summer_____ Year_____

Advisor: _____

General Education Study Areas:

I. Arts and Humanities (9 credits)[1]

	Crs
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

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[2]	3
ENGR 290 - Engr Tech Writing & Presentation	3

II. Mathematics (6 or 8 credits)[2]

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)[3]

IV. University Requirement (2-3 credits)

PE 144-Fitness/Wellness (or appropriate transfer credit[4])	2 or 3

International Requirement (6 credits)[5]

Equity, Justice, and Inclusion Requirement (3 credits)[6]

Major Requirements:

			Crs	F	S
	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

Directed Technical Electives:

	Crs	F	S
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

Additional Requirements:

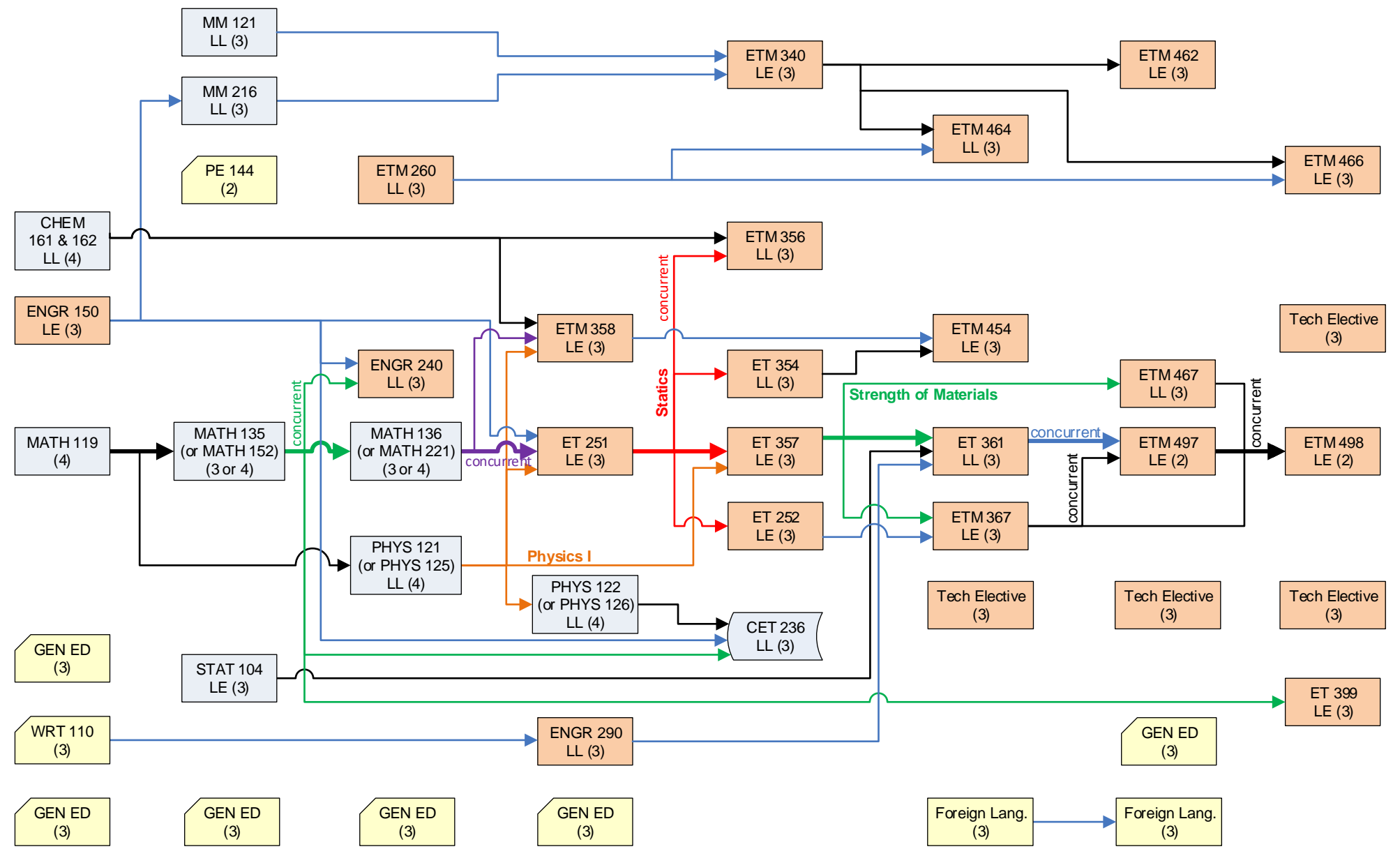|		Crs	F	S
MM 121	Mechanical CAD	3	X	X
MM 216	Manufacturing Processes	3	X	X
CET 236	Circuit Analysis	3	X	X
CHEM 161	General Chemistry	3	X	X
CHEM 162	General Chemistry - LAB	1	X	X
ENGR 240	Computational Methods for Engineering	3	X	X
MATH 119[7]	Pre-Calculus with Trigonometry	4	X	X
STAT 104	Elementary 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.

[1] For Study Area I, no more than 6 credits from any one discipline.

[2] Placement examination may be required before enrolling in initial English and Mathematics courses. Contact CCSU's Learning Center.

[3] Refer to the University Catalog, Undergraduate General Education Program, for Foreign Language proficiency requirements.

[4] 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.

[5] 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.

[6] Courses with the Equity, Justice, and Inclusion designation can be double-counted to fulfill the Equity, Justice, and Inclusion Requirement.

[7] 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 2021

Fall	Year 1	Spring		Fall	Year 2	Spring		Fall	Year 3	Spring		Fall	Year 4	Spring

Year 1

- MM 121 LL (3)
- MM 216 LL (3)
- PE 144 (2)
- CHEM 161 & 162 LL (4)
- ENGR 150 LE (3)
- MATH 119 (4)
- MATH 135 (or MATH 152) (3 or 4)
- ENGR 240 LL (3)
- MATH 136 (or MATH 221) (3 or 4)
- PHYS 121 (or PHYS 125) LL (4)
- STAT 104 LE (3)
- WRT 110 (3)
- GEN ED (3)

Year 2

- ETM 260 LL (3)
- ETM 358 LE (3)
- ET 251 LE (3)
- PHYS 122 (or PHYS 126) LL (4)
- ENGR 290 LL (3)

Year 3

- ETM 340 LE (3)
- ETM 356 LL (3)
- ETM 454 LE (3)
- ET 354 LL (3)
- ET 357 LE (3)
- ET 252 LE (3)
- CET 236 LL (3)
- Tech Elective (3)

Year 4

- ETM 462 LE (3)
- ETM 464 LL (3)
- ETM 466 LE (3)
- Tech Elective (3)
- ETM 467 LL (3)
- ET 361 LL (3)
- ETM 497 LE (2)
- ETM 367 LE (3)
- ETM 498 LE (2)
- Tech Elective (3)
- Tech Elective (3)
- Tech Elective (3)
- ET 399 LE (3)
- GEN ED (3)

GEN ED (3) × multiple

- GEN ED (3)
- GEN ED (3)
- GEN ED (3)
- GEN ED (3)
- Foreign Lang. (3)
- Foreign Lang. (3)

concurrent — Physics I — Statics — Strength of Materials

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