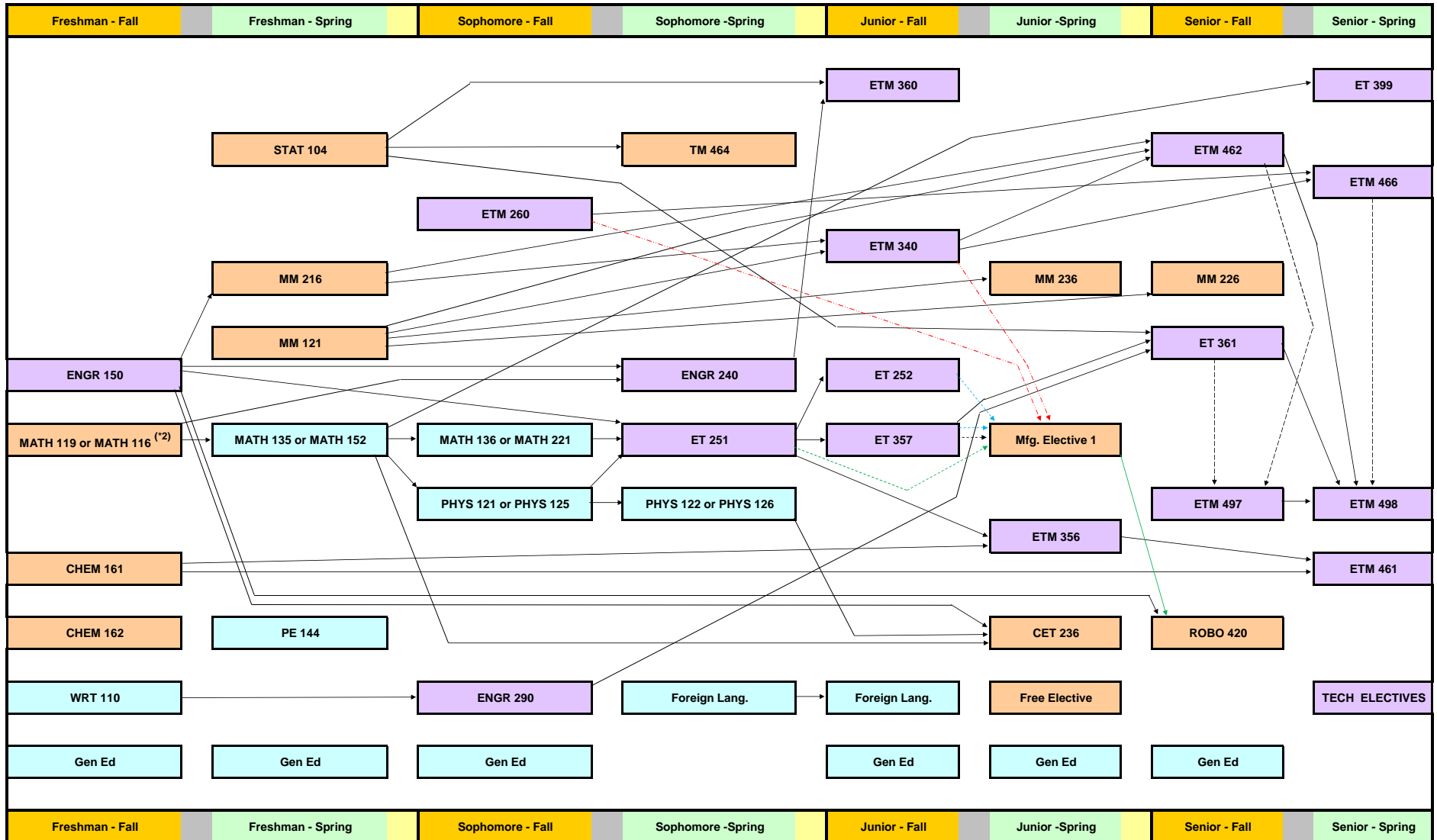


Manufacturing ET Program Flowchart

Revised Spring 2024

- > prerequisite path (prerequisite course must be taken before)
- - - - -> corequisite path (corequisite course must be taken before or at the same time)

(*2) For students with credit for MATH 116, but not for MATH 119, MATH 115 is also required as a prerequisite for MATH 135 or MATH 152.



DEPARTMENT OF ENGINEERING
Central Connecticut State University
 1615 Stanley St.
 New Britain, Connecticut 06050
 Tel: 860-832-1815; Fax: 860-832-1811
 Web: www.ccsu.edu/sest/

Name: _____

ID#: _____ E-mail: _____

Entry: Fall__ Spring__ Summer__ Year_____ Transfer Credits__

Advisor: _____

Degree: **Bachelor of Science**

Major: **Manufacturing Engineering Technology**

Effective: **2020 Spring Semester** Updated: 03/18/2024

General Education	
STUDY AREAS:	
I. Arts & Humanities (9 credits)	
English Literature	3
Philosophy or Fine Arts	3
English Lit. or Philosophy or Fine Arts	3
II. Social Sciences (6 credits)	
History	3
ECON or GEOG or HIST or Polit.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 I or PHYS 125-Univ Physics I	4
PHYS 122-Gen Physics II or PHYS 126-Univ Physics II	4
SKILL AREAS:	
I. Communication Skills (6 credits)	
WRT 110-Freshman Composition ^(*)	3
ENGR 290-Engr Tech Writing & Presentation	3
II. Mathematics (6 or 8 credits) ^(**)	
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.a Foreign Language (0-6 credits) ^(***)	
III.b International (6 credits) ^(****)	
IV. University Requirements (2-3 credits) ^(****)	
PE 144-Fitness/Wellness (or ENGR 150 for transfer student)	2 or 3

Major Requirements		Crs	Sem.	
			F	S
ENGR 150	Introduction to Engineering	3	X	X
ET 251	Applied Engineering Mechanics I (Statics)	3	X	X
ET 252	Applied Engineering Mechanics II (Dynamics)	3	X	X
ET 357	Strength of Materials	3	X	X
ET 361	Engineering Technology Laboratory	3	X	X
ET 399	Engineering Economy	3	X	X
ETM 260	Computer Aided Design & Intgrtd. Manufacturing	3	X	X
ETM 340	Geometric Dimensioning and Tolerancing	3	X	X
ETM 356	Material Analysis	3	X	X
ETM 360	Computer Aided Planning (CAP)	3	X	
ETM 461	Manufacturing with Plastics and Composites	3		X
ETM 462	Manufacturing Process Planning and Estimating	3	X	X
ETM 466	Design for Manufacture	3	X	X
ETM 497	Engineering Technology Senior Project Research	2	X	X
ETM 498	Engineering Technology Senior Project (Capstone)	2	X	X
Directed tech. electives selected in consultation with advisor ^(***)		3 to 4	X	X
ET 300; ET 495; ETM 358; ETM 367; ETM 423; ETM 460; ETM 463; ETM 467; ETM 468; MM 366; MM 390; MFG 496; TM 432; ENGR 392; ENGR 490				

Additional Requirements		Crs	F	S
MM 121	Technical Drafting and CAD	3	X	X
MM 216	Manufacturing Processes	3	X	X
MM 226	Principles of Numerical Control	3	X	X
MM 236	Tool Design	3	X	X
TM 464	Six Sigma Quality	3	X	X
ROBO 420	Manufacturing Automation	3		X
CET 236	Circuit Analysis	3	X	X
CHEM 161	General Chemistry I	3	X	X
CHEM 162	General Chemistry I - LAB	1	X	X
ENGR 240	Computational Methods for Engineering	3	X	X
MATH 119	Pre-Calc. with Trig. Or MATH 116-Pre-Calc. ^(**)	4 or 3	X	X
STAT 104	Elementary Statistics	3	X	X
†	Manufacturing Elective 1	3	X	X
Electives (to complete 130 credits minimum degree requirement)		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, and Skill Areas I and II.

(*) Placement examination may be required before enrolling in English and Mathematics courses. Contact CCSU's Learning Center.

(**) For students with credit for MATH 116, but not for MATH 119, MATH 115 is also required as a prerequisite for MATH 135 or MATH 152.

MATH 115 credits do not apply towards the degree.

(***) Refer to the University Catalog, Academic Programs for Foreign Language proficiency and International (6 credit) requirements.

(****) Any course with designator [I] in its description fulfills not only its the General Education requirement or Major requirement, but also fulfills Skill Area III.b requirement. Note that the required course ETM 340 fulfills 3 credits of the 6-credit the International Requirement.

(****) Transfers entering with 15 or more credits may complete this requirement with 2 or 3 credits from any of the other skill areas or with: ENGR150; COMM115, COMM140; CET113; CS113; CS115; CS151; MATH115; MIS201; STAT200.

(***) If ET 399 is used for Study Area II and ENGR 150 is used for Skill Area IV, 6 more credits of technical electives must be completed.

† ET 354 or ETM 367 or ETM 460 or ETM 464 or ETM 467 or ROBO 330