

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

General Education

STUDY AREAS:

I. Arts & Humanities (9 credits)

	Crs
English Literature	3
Philosophy or Fine Arts	3
English Lit. or Philosophy or Fine Arts	3

II. Social Sciences (6 credits)

	Crs
History	3
ECON or GEOG or HIST or Polit.Sci. or ET 399	3

III. Behavioral Sciences (3 credits)

	Crs
Anthropology or Psychology or Sociology	3

IV. Natural Sciences (8 credits)

	Crs
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)

	Crs
WRT 110-Freshman Composition ^(*)	3
ENGR 290-Engr Tech Writing & Presentation	3

II. Mathematics (6 or 8 credits) ^()**

	Crs
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) ^(*)**

	Crs

III.b International (6 credits) ^(*)**

	Crs

IV. University Requirements (2-3 credits) ^(*)**

	Crs
PE 144-Fitness/Wellness (or ENGR 150 for transfer student)	2 or 3

Major Requirements

	Crs	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 ^(***) 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	3 to 4	X	X

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

Manufacturing ET Program Flowchart

Revised Spring 2020

- > 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.

