Major: **Mechanical Engineering Technology** Degree: **Bachelor of Science** Effective: Summer 2015

**ENGINEERING DEPARTMENT**
**Central Connecticut State University**
1615 Stanley Street
New Britain, Connecticut 06050
Tel: (860) 832-1815
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Web: http://web.ccsu.edu/set/

**Name:**_____

**ID#**:_____ **E-mail:**_____

**Entry:** Fall___Spring___Summer___Year_____Transfer Credits_____

**Advisor:**_____

## General Education Study Areas:

**I. Arts and Humanities (9 credits)**

| | | 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)**

| | | |
|---|---|---|
| | ENG 110-Freshman Composition[1] | 3 |
| | ENGR 290-Engr Tech Writing & Presentation | 3 |

**II. Mathematics (6 or 8 credits)[1]**

| | | |
|---|---|---|
| | 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)[2]**

| | | |
|---|---|---|
| | | |
| | | |

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

| | | |
|---|---|---|
| | PE 144-Fitness/Wellness (or ENGR 150 for Transfers) | 2 or 3 |

**International Requirement (6 credits)[4]**

| | | |
|---|---|---|
| | | |

## Major Requirements

| | | | Crs | Sem. F | Sem. 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 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 | 3 | X | X |
| | ETM 356 | Material Analysis | 3 | X | X |
| | ETM 358 | Applied Thermodynamics | 3 | X | X |
| | ETM 367 | Machine Design | 3 | X | 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** such as ET 495; ETM 360; ETM 423; ETM 454; ETM 460; ETM 461; ETM 463; ETM 468; MM 226; EMEC 334; ENGR 490 | | 5 to 9 | X | X |

## Additional Requirements

| | | | | | |
|---|---|---|---|---|---|
| | MM 121 | Technical Drafting and CAD | 3 | X | X |
| | MM 216 | Manufacturing Processes | 3 | X | 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 |
| | MM 324 | Fluid Power Systems | 3 | | X |
| | ENGR 240 | Computational Methods for Engineering (or CS 213) | 3 | X | X |
| | MATH 119[5] | Pre-Calculus with Trigonometry | 4 | X | X |
| | STAT 104 | Elementary Statistics | 3 | X | X |
| | Free Elective (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, Skill Area I, and Skill Area II.

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

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

[3] For transfers, other Skill Area IV courses can be used: COMM 115, COMM 140, CET 113, CS 113, CS 115, CS 151, MATH 115, RDG 140, STAT 200.

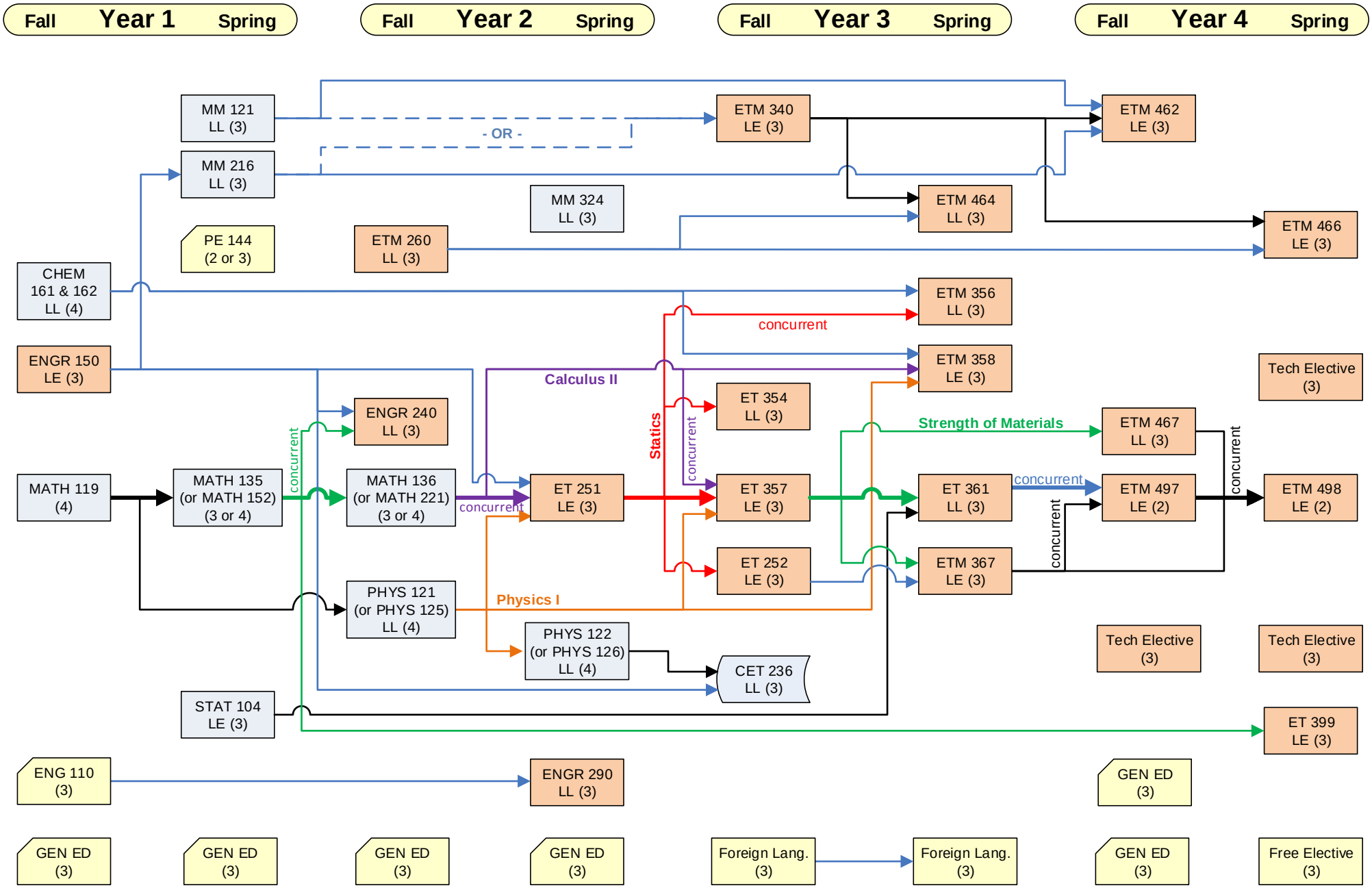
[4] General Education courses with designator [I] in course description can be double-counted to fulfill the International Requirement.

[5] MATH 116 (3cr 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 Summer 2015




**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.**