Curriculum Requirements

- **Program Core Courses (2 courses)**
  - Taken by all MEng students

- **Track Courses (4-5 courses)**
  - Specific to the discipline of interest (MSE Track Courses listed below)

- **Elective Courses (1-3 courses)**
  - Further depth in the discipline chosen for the track courses or interdisciplinary breadth in another applicable MEng discipline

- **Capstone Project (Choose One)**
  - Four choices under Program Advisor’s approval. Schedule in Spring Semester:
    - 1) Project completion
    - 2) MEng capstone evaluation
    - 3) Perform an internship
    - 4) Prepare a written paper under the supervision of your advisor

1) **Project Completion**
   - 3 Credit hour course. This is not a research thesis. The student will apply knowledge gained through course work to a project topic agreed upon by the student and the student’s advisor. Use Appendix A from MEng Handbook to submit the proposal. Follow and submit Appendix B from the MEng handbook along with the completed project.

2) **MEng Capstone Evaluation**
   - This is a 0 credit hour capstone (make sure to fulfill the 30 credit hour requirement). Determined by the Program, the student will take a written exam, perform an interview, or write a summary encompassing knowledge gained through all Core, Track, and Elective Courses.

3) **Internship**
   - Minimum time for a capstone internship is 400 hours. If a capstone is not secured by the 5th semester of the program, the student must then complete a project or paper. Submit Appendix C from the MEng handbook. Students submit a final report per Appendix E from the MEng handbook.

4) **Written Paper**
   - A project topic is submitted using Appendix A from the MEng handbook. Once agreed upon by the advisor, the student will write a paper on the chosen topic using knowledge gained through their course work. The paper will be graded based on thoroughness, accuracy, formatting, and grammar. Follow and submit Appendix B from the MEng handbook along with the paper.

**Verification of Completion of Chosen Capstone is Completed through Appendix F in the MEng Handbook**

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**Track Required Courses – 4 courses from the following**

(Further courses can be taken as Electives)

- MTEN6010L PHYS PROP SOLIDS Fall
- MTEN6012C Nano Materials Eng Spring
- MTEN6013 Smart Structures Fall
- MTEN6020 Kinematics of Materials Proc Fall
- MTEN6025C POLYMER PROCESSING Spring
- MTEN6034 Polymer Properties Fall
- MTEN6035 Polymer Spectroscopy Fall
- MTEN6042 COMPOSITE MATERIALS Spring
- MTEN6044 Ceramics Processing Fall
- MTEN6047 ELEC OPT PROP CER
- MTEN6049 Mag, Diel and Sensor Properties
- MTEN6060 Corrosion Spring
- MTEN6065 Biomedical Materials Fall

- MTEN6070 Phase Transitions Spring
- MTEN6085 Coatings Spring
- MTEN6090 MOLECULAR MODELING Spring
- MTEN6096 Smart Materials Fall
- MTEN6097 Mech Prop Materials Fall
- MTEN7010c Adv Materials Tech Fall
- MTEN7032 Polymer Analysis & Char Spring
- MTEN7035 Advanced Thermodynamics Fall
- MTEN7048 DIFFRACTION THEORY Spring
- MTEN7079 DEFECT IN SOLID
- MTEN7094 POLYMER SCIENCE Fall