

Composite Certification Path to MEng in MSE

Composite Certificate Requirements (12 credits total)

Required Courses (6 credits)

All students must take the following two core courses:

1. **ME 5430** Mechanics of Composite Materials
2. **ME 5442** Composite Design

Elective Courses (6 credits)

Students can take two of the following four courses to complete the certificate:

1. **MSE 5095** Behavior of Composites
2. **MSE 5364** Advanced Composites
3. **ME 5443** Composites Manufacturing
4. **ME 5522** Advanced Analysis of Composite Materials & Structures

Conversion to MEng in MSE from Composite Certificate

- If a student wishes to also earn, or shift to, the MEng in MSE degree, she/he must submit an official MEng application. Admission will be based on the normal requirements for MEng applicants, including a GPA, for courses taken during the certificate program, of 3.0 or higher.
- To complete the MEng in MSE degree, the student will need to satisfy the standard requirements as outlined below.
- If both the *MSE 5095 - Behavior of Composites* and *MSE 5364 - Advanced Composites* courses are chosen as certificate electives, it is possible to earn both the Certificate and the MEng-MSE with a combined total of only 30 credits (double counting courses for the certificate and the MEng is allowed).

MEng in Materials Science and Engineering Requirements (30 credits total)

MEng Core Courses (12 credits)

All students must take the following MEng core courses:

1. **ENGR 5311** Professional Communication and Information Management
2. **ENGR 5312** Engineering Project Planning and Management
3. **ENGR 5314** Advanced Engineering Mathematics
4. **ENGR 5315** MEng Capstone Project (final year only)

MSE Concentration Courses (18 credits)

Of these 18 credits, at least 12 credits must come from MSE graduate (5000-level) courses.

Up to 6 credits of non-MSE graduate (5000-level) courses may be taken with major advisor approval.

<https://gradcatalog.uconn.edu/course-descriptions/course/MSE/>

