Engineering Data Science Certificate Path to MEng Data Science

Engineering Data Science Certificate Requirements:
4 technical core courses (12 credits)

Technical Core Courses
(12 credits)
1. CSE 5713 Data Mining
2. CSE 5717 Engineering Big Data
3. CSE 5520 Data Visualization and Communication
4. CSE 5820 Artificial Intelligence and Machine Learning

MEng in Data Science Requirements
MEng Requirements: 4 MEng core courses (includes capstone project) + 4 Data Science core courses + 2 elective courses (30 credits)

MEng Core Courses
(12 credits)
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

Data Science Core Courses
(12 credits)
All 4 Engineering Data Science technical core courses would transfer from the certificate for credit as the 4 required Data Science core courses for MEng.

Additional MEng Requirements: The 2 remaining technical elective courses (6 credits) may be filled by the following CSE, ECE, ME or SE courses:

- CSE 5500 Algorithms
- CSE 5850 Information and Data Security
- ECE 6141 Neural Networks for Classification and Optimization
- ECE 6437 Computational Methods for Optimization
- ME 5511 Principles of Optimum Design
- ME 5895 AI for Design and Manufacturing
- ME 5895 Computational Nanomechanics
- SE 5702 Data Science for Materials and Manufacturing
- SE 5402 Architecture of Internet of Things
- CSE/SE 5095 Machine Learning for Physical Sciences & Systems

MEng in Data Science Requirements
- If a student wishes to also earn, or shift to, the MEng in Data Science 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.
- Once admitted, the student will need to take two additional engineering courses either on the preapproved list of technical electives, or approved by the students MEng advisor. The students will need to also take the MEng program core courses in order to graduate.

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https://engineeringcertificates.uconn.edu/engineering-data-science-certificate/