

ENGINEERING: ENGINEERING DATA ANALYTICS, M.ENG.

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (<http://guide.wisc.edu/graduate/#policiesandrequirements>), in addition to the program requirements listed below.

NAMED OPTION REQUIREMENTS

MODE OF INSTRUCTION

Face to Face	Evening/Weekend	Online	Hybrid	Accelerated
No	No	Yes	No	No

Mode of Instruction Definitions

Accelerated: Accelerated programs are offered at a fast pace that condenses the time to completion. Students are able to complete a program with minimal disruptions to careers and other commitments.

Evening/Weekend: Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

Face-to-Face: Courses typically meet during weekdays on the UW-Madison Campus.

Hybrid: These programs combine face-to-face and online learning formats. Contact the program for more specific information.

Online: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

CURRICULAR REQUIREMENTS

Requirements Detail

Minimum Credit Requirement 30 credits

Minimum Residence Credit Requirement 16 credits

Minimum Graduate Coursework Requirement Half of degree coursework (at least 15 credits out of 30 total credits) must be in graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university's Course Guide (<https://registrar.wisc.edu/course-guide> (<https://registrar.wisc.edu/course-guide/>)).

Overall Graduate GPA Requirement 3.00 GPA required.

Other Grade Requirements Must retake any courses for which a grade below C is recorded.

Assessments and Examinations No formal examination required.

Language Requirements No language requirements.

REQUIRED COURSES

Code	Title	Credits
Required (Core Courses)		15

At least 15 credits from the following:

I SY E 412	Fundamentals of Industrial Data Analytics	
I SY E 620	Simulation Modeling and Analysis	
L I S 751	Database Design for Information Professionals	
M E 459	Computing Concepts for Applications in Engineering	
M E/COMP SCI/ E C E 532	Matrix Methods in Machine Learning	
M E 548	Introduction to Design Optimization	
M E/COMP SCI/ E C E/E M A/ E P 759	High Performance Computing for Applications in Engineering	

Electives 15

Students choose 15 elective credits in consultation with their advisor.

Total Credits 30