Engineering (Professional Program: MEng)

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Master of Engineering (MC 171)
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Administration:
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Program Code:
2PFQ1211MENU

The UIC College of Engineering offers a Master of Engineering degree program with a focus area in Artificial Intelligence and Machine Learning, which is completed online. The MEng is a professional degree based exclusively on coursework, without a research component (no project or thesis) and without departmental affiliation. This program is fully approved by the Illinois Board of Higher Education.

The main objectives of the MEng online program may be summarized as follows:

- To provide graduate training that is controlled by the employer's needs, and may respond to these changing needs in real time by creating new specializations with no delay.
- To provide graduate engineering education to students in remote areas of the state, the country, and the world, and/or to students who can access instruction only asynchronously.
- To provide interdisciplinary technical upgrading to engineers in small and medium-sized industries.
- To provide specialized technical training to a (possibly geographically dispersed) group of students.

All students must complete a minimum of 36 semester hours of graduate coursework with a 3.00/4.00 GPA. With accelerated 8-week terms, this degree can be completed in as few as 12 months. (These 9 online courses are for Master of Engineering students only.) All degree requirements must be completed within six years of admission.

Admission Requirements

- **Prior Degrees** Baccalaureate degree in engineering or a closely related field, such as biology, chemistry, computer science, mathematics, or physics, from a regionally accredited college or university.
- **Prerequisite Coursework** For non-engineering or computer science majors, applicants must have calculus 1 through calculus 3 (which is the equivalent to MATH 180, MATH 181, and MATH 210 at UIC) and the equivalent of 10 semester hours in sciences, all with a grade of C or better.

- **Computer Programming Languages** It is strongly recommended that students have at least one course in programming. Python is the recommended language for this program and Python courses can be found online to be completed before starting the program.
- **Grade Point Average** A cumulative grade point average of 3.00/4.00 for the final 60 semester hours (or 90 quarter hours) of undergraduate study.
- **Transcripts** Registrar-issued transcripts (copies) from all colleges or universities attended. Transcripts must state degree conferred from awarding institution.
- **Work Experience** Two years or more of post-bachelor's professional work experience is required.
- **Resume** Required.
- **Letters of Recommendation** Two required.
- **International Students** Refer to International Requirements.
- **Minimum English Competency Test Scores** (for international applicants) Applicants whose native language is not English are required to take an English competency test. Minimum required scores are:
  - **TOEFL iBT** 80, with subscores of Reading 19, Listening 17, Speaking 20, and Writing 21, **OR**,
  - **IELTS Academic** 6.5, with 6.0 in each of the four subscores, **OR**,
  - **PTE-Academic** 54, with subscores of Reading 51, Listening 47, Speaking 53, and Writing 56.

Degree Requirements

- **Minimum Semester Hours Required** 36.
- **Coursework** Nine courses, totaling 36 hours.

Code	Title	Hours
Required Courses		
MENG 400	Engineering Law	
MENG 401	Engineering Management	
MENG 404	Math Fundamentals for AI Engineers and Data Scientists	
MENG 407	Innovation Tools and Methods	
ECE 415	Image Analysis and Computer Vision I	
ECE 491	Seminar	
CS 411	Artificial Intelligence I	
CS 412	Introduction to Machine Learning	
CS 421	Natural Language Processing	