Engineering (Professional Program: MEng)

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Master of Engineering (MC 171)
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Administration:
Associate Professor and Associate Dean: Carmen Lilley, PhD

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 course work, 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 course work 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 Course Work** 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.

Degree Requirements

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

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MENG 400</td>
<td>Engineering Law</td>
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<td>MENG 401</td>
<td>Engineering Management</td>
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<td>MENG 404</td>
<td>Math Fundamentals for AI Engineers and Data Scientists</td>
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<td>MENG 407</td>
<td>Innovation Tools and Methods</td>
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<td>ECE 415</td>
<td>Image Analysis and Computer Vision I</td>
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<td>ECE 491</td>
<td>Seminar</td>
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<tr>
<td>CS 411</td>
<td>Artificial Intelligence I</td>
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<tr>
<td>CS 412</td>
<td>Introduction to Machine Learning</td>
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<tr>
<td>CS 421</td>
<td>Natural Language Processing</td>
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- **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 Internet-based TOEFL of 80, with subscores of Reading 19, Listening 17, Speaking 20, and Writing 21;
  - New Paper-Based TOEFL (after August 2018) of 60, with subscores of Reading 19, Listening 17, Writing 21;
  - Institutional Testing Paper-Based TOEFL (prior to August 2018) of 550;
  - IELTS of 6.5, with all four subsections of at least 6.0;
  - PTE-Academic of 54, with subscores of Reading 51, Listening 47, Speaking 53, and Writing 56.