PhD in Industrial Engineering

Admission

Following are the minimum requirements for admission to the PhD in industrial engineering program.

1. Applicants whose native language is not English must submit official, acceptable scores for either the TOEFL, the Academic Module of the IELTS examination, or the PTE-Academic test. Please visit the Graduate School website (http://wichita.edu/gradschool)\(^1\) to check English proficiency requirements;
2. Submission of official GRE scores is required;
3. Applicants must have (or be nearing the completion of) a master’s degree in engineering, physical science or other related disciplines with a minimum cumulative GPA of 3.250 (on a 4.000 point scale) in all graduate coursework;
4. A statement of purpose indicating applicant’s research interests, and evidence of the ability to carry out independent research and present it in written English is highly desirable;
5. Submission of two letters of recommendation; and
6. Prerequisites:
   a. Completion of the following or equivalent courses:
      
      | Course   | Title                                      | Hours |
      |----------|--------------------------------------------|-------|
      | IME 255  | Engineering Economy                       | 3     |
      | MATH 344 | Calculus III (students deficient in this are considered for admission only in nondegree status) | 3     |

A natural science course equivalent to that of the undergraduate engineering requirement

b. Programming competence in at least one of the following languages: C, C++, or Visual BASIC.

d. With at least 50 percent coursework (beyond credit hours transferred from the MS degree) from the department;
e. Excluding independent study courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>Dissertations</td>
<td>24</td>
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<tr>
<td></td>
<td>Statistical Methods for Engineers</td>
<td>3</td>
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<tr>
<td></td>
<td>IME Colloquium (three semesters)</td>
<td>0</td>
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<td></td>
<td>Professional and scholarly integrity training (preferably completed in the first semester)</td>
<td>45</td>
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<td>Total Credit Hours</td>
<td>72</td>
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2. Advisor, Advisory Committee and Plan of Study: Before completing 12 PhD credit hours at WSU, a student must select an advisor and an advisory committee. With the help of the advisor, the student must prepare a plan of study that needs to be approved by the advisory committee, graduate coordinator and Graduate School before the preliminary and comprehensive exam is attempted. For details of the preliminary examination, please refer to the ISME website.

3. Preliminary Examination: Before completing 18 PhD credit hours at WSU, a student must pass the preliminary examination administered by the department in at most two attempts. Students who cannot pass the preliminary exam in 1.5 years will be dismissed from the PhD program.

4. Dissertation Approval Examination: Prepare a dissertation research proposal and pass an oral examination of the proposal. A student cannot attempt the examination more than twice.


6. Other Program Requirements: All other requirements are the same as those established for the college and the university.

7. Time Limits: From the time the student is admitted to the program, no more than 10 years may elapse until requirements for the degree have been completed.

On the Way to MS to PhD Program

A PhD student may apply for the MS in industrial engineering or Master of Engineering Management while being in the PhD program if the student:

1. Files a plan of study, in the semester in which the MS degree is awarded, which satisfies all course option requirements and deadlines for the MS in industrial engineering or Master of Engineering Management;
2. Files an application for degree for the semester the master's will be earned; and
3. Completes a preliminary examination (as applicable to the PhD program).

\(^1\) Link opens new window.