PH.D. IN ERGONOMICS AND HUMAN FACTORS

This program is closing and no longer accepting new students pending approval by the Southern Association of Colleges and Schools Commission on Colleges.

Policies and Important Details
1. The Ph.D. in Ergonomics and Human Factors for students with a background in engineering and/or related sciences.
2. To maintain status as a graduate student, registration in each fall and spring semester is required. Otherwise, admission lapses and permission to re-enter must be granted.
3. Once a student has completed all course and required research credit hours, he or she must enroll in “Research in Residence” status until the degree has been granted. “Research in Residence” status is considered full time enrollment. Time restrictions on obtaining degrees will be strictly enforced and can be waived only by the Dean of the Graduate School.
4. Upon completing the course requirements, passing the qualifying exams, and successfully defending the Ph.D. proposal, the student is eligible for admission to the Ph.D. candidacy.
5. Upon passing the qualifying exams, the student in consultation with his/her selected Ph.D. Dissertation committee chair will decide on the dissertation committee members. The Dissertation committee will consist of not less than four members, three from the Department’s graduate faculty, one from outside the Department. The chairman has to be a member of the graduate faculty. The duties of the Dissertation Committee are:
   a. To consult with and to advise students on their research.
   b. To meet, at intervals, to review progress and expected results.
   c. To read and comment upon the draft dissertation.
   d. To meet, when the dissertation is completed, to conduct the final oral examination and to satisfy itself that the dissertation is a contribution to knowledge and that it is written in lucid and correct English and submitted in approved form.
   e. The candidate is well advised to have a final acceptable typescript of the dissertation in the hands of each member of his/her committee at a time reasonably in advance of the final defense of the work.
6. There are no foreign language requirements for the Ph.D. degree.

Course work requirements depend on the student's background, and are established by the Graduate Advisor and the Department Chairman. 60 credit hours beyond the baccalaureate degree are the minimum requirement for the Ph.D. Students with a Master's degree may take the minimum hours listed below, while students without a master's must take the maximum hours.

Curriculum Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individualize Student Plan</td>
<td>6 to 10 courses at 600 or 700 level</td>
<td>18 - 30</td>
</tr>
<tr>
<td></td>
<td>4 to 6 courses at 700 level</td>
<td>12 - 18</td>
</tr>
<tr>
<td></td>
<td>Dissertation (12 credits)</td>
<td>12</td>
</tr>
</tbody>
</table>

Required Exams
- Written Qualifying Exams
  - Ergonomics and Human Factors Qualifying Exam
  - Industrial Hygiene Qualifying Exam
  - Safety Engineering Qualifying Exam
  - Biomechanics Qualifying Exam
  - Statistics & Regression analysis Qualifying Exam

Total Credit Hours 42-60

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1 A written qualifying examination is to be taken by each doctoral degree candidate during the first year of graduate work. The department may specify that the student must take an oral examination as well. In those cases, normally, the student shall pass the written examination before the oral examination is conducted. Upon completion of the examination process, the Graduate Advisor notifies the Department Chairman that the student has passed or failed the examination. A student who fails the examination may be permitted to retake it, with the permission of the Graduate Advisor and the Chairman. Qualifying examinations normally will not be given during the summer months. The applicant must hold a 3.0 average on all credit hours attempted with no single grade below "C" at the University of Miami while a graduate student.

* At least 24 must have been taken in residence at the University of Miami. A minimum of 12 dissertation credit hours must be taken.
Mission
The Department of Industrial Engineering’s mission is to provide contemporary and relevant industrial and systems engineering education and research; impart knowledge and skills necessary to design and to improve a variety of manufacturing and service processes; promote life-long learning; and contribute to emerging societal needs.

Goals
Student Learning Outcomes
• Graduates will identify advanced engineering problems, search all possible methods for solution and implement the most appropriate one.
• Graduates will demonstrate an ability to write effectively about advanced engineering topics.
• Graduates will have an ability to present their findings effectively about advanced engineering topics.