Ph.D. Degree Checklist

Instructions: The purpose of this checklist is to summarize the department's Ph.D. requirements. However, you cannot design your degree plan without explicit help from an advisor, since each faculty member will have requirements beyond the minimal departmental and area requirements.

University Requirements

The total must be at least 64 hours beyond the Masters or 96 hours beyond the Bachelors. Additional university requirements can be found through the OGS website.

Department Requirements

A. Course requirements

Required courses: ISEN 602 ______ ISEN 622 ______ ISEN 623 ______ STAT 611 ______

Advanced courses (at least three):

__________           ___________        ___________

B. Qualifying procedure. Students will take three two-hour exams over the following material. A student will only be given a conditional pass without a named faculty advisor.

   (1) Stochastic Processes  (coverage of ISEN 602)
   (2) Linear Optimization  (coverage of ISEN 622)
   (3) Nonlinear Optimization  (coverage of ISEN 623)

C. ISEN 681 Seminar  (three hours)

D. ISEN 691 (at most 31 hours for 64-hour degree plan, at most 51 hours for 96-hour degree plan.)
(No more than 3 hours per regular semester may be taken before a student passes the qualifying exams, or these hours must be pre-approved by the Departmental Graduate Committee.)

E. Industrial internship: ISEN 684 (1 hr per semester, 3 hrs maximum)
(not required, but if used, does not count towards the minimum required 64 or 96 hours)

F. Students must take their Preliminary Exam by the end of the semester following the one in which they get within six hours of completing their degree plan course hours.

G. Submit dissertation proposal.

H. (Optional) Presentation of research results during a 681 Seminar, Student Society Seminar (such as INFORMS), or a national conference, and submission of papers to a refereed journal.

Faculty Requirements

Talk to each committee member before submitting a degree plan.

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Note: The following courses will not be allowed on a Ph.D. degree plan: all undergraduate courses except MATH 409, 446 and 447; and the following prerequisite courses ISEN 609, 620, CSCE 601, STAT 601 and STAT 651. STAT 610 or 630 will be allowed, but not both. At most, 3 hours of ISEN 685 may be used towards the degree plan.