

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. Qualifying procedure

Students will take three two-hour exams over the following material:

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

Students must pass all portions of the exam, but at the discretion of the Graduate Committee, individual exams may be retaken individually (at most one retake for each individual exam).

B. STAT 611

ISEN 681 Seminar (three hours)

C. ISEN 691 (at most 30 hours for 64-hour degree plan, at most 36 hours for 96-hour degree plan.)

(No more than 6 hours per year may be taken before a Ph.D. degree plan has been submitted, or these hours must be pre-approved by the Departmental Graduate Committee.)

D. 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)

E. 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.

F. Submit dissertation proposal.

G. Presentation of Research Results during a 681 Seminar, Student Society Seminar (such as INFORMS), or a national conference.

H. Submission of at least one paper to a refereed journal.

Faculty Requirements

Talk to each committee member before submitting a degree plan.

- Note:
1. No prerequisites on degree plan (e.g., ISEN 620, ISEN 609, MATH 304, CPSC 601, STAT 601, 630 and 651).
 2. No ISEN undergraduate courses may be on degree plan.
 3. At most three undergraduate courses at the 300 or 400 level may be used.
(these must be pre-approved by the Committee Chair or the ISEN Graduate Advisor)