

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 Requirement

- A. The total must be at least 64 hours beyond the Masters or 96 hours beyond the Bachelors.

Department Requirements

- A. Qualifying procedure

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

- (1) - Stochastic Processes and Statistics (coverage of ISEN 602 and STAT 610)
- (2) - Optimization (coverage of ISEN 622 and ISEN 623)
- (3) - Choice of one of (coverage of two designated courses in each area)
 - a. Decision, Risk and Engineering Management (ISEN 627, ISEN 663)
 - b. Information Systems, Simulation, and Visualization (ISEN 625, ISEN 655 or ISEN 656)
 - c. Production, Logistics and Supply Chain Management (ISEN 601, ISEN 615)
 - d. Quality and Reliability Engineering (ISEN 612, ISEN 614 or ISEN 616)

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).

- C. STAT 611
- D. ISEN 691 (at most 30 hours)
- D. Seminar: ISEN 681 (three hours)
- E. Presentation of Research Results during a 681 Seminar, INFORMS Seminar, or a national conference.
- F. 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, STAT 601, CPSC 601, STAT 630 & 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