



Department of Industrial
and Systems Engineering
UNIVERSITY OF WISCONSIN-MADISON

ISyE PhD Program Initial Plan of Study – Human Factors

(Please fill out the form electronically and submit [HERE](#))

To be used for initial PhD Program Planning and Tracking of [ISyE PhD Program requirements](#) (Human Factors Area). To be **completed during the first year of the PhD program** for initial program planning in consultation with advisor. Plans can be updated as needed throughout the PhD program. Please have this Plan of Study form approved and signed by advisor and then upload to the link ABOVE when registering for the [ISyE HF Qualifying Exam](#) (along with the [Human Factors Qualifying Exam Registration Form](#)). The HF qual exam must be completed by the end of the 5th semester of your ISyE graduate program at UW (this includes time spent in the ISyE MS degree program if applicable).

- [Criteria for Satisfactory Academic Progress ISyE Graduate Student](#)
- [ISyE PhD Program Requirements](#)
- [Graduate School 50% Graduate Coursework Policy](#) – Graduate School requires 50% of program coursework designated as graduate level in UW Course Guide (27 credits of 51 total ISyE PhD degree credits).

FULL NAME: _____ DATE: _____
(Last, First, Middle)

CAMPUS ID# NUMBER: _____ SEM / YEAR STARTED: _____

PhD Graduate Courses Planning to take at UW-Madison ([UW Course Guide](#))

- The PhD Program is a minimum 51 credit program (this includes research & dissertation enrollment).
- List 300 level + course plans below – **not including** Minor Coursework and Research / Thesis Courses.
- If using prior / transfer coursework from other institutions toward PhD program requirements (approved by advisor and department in [ISyE prior coursework system](#)), please indicate course # with an “*”.

DEPTH REQUIREMENT – Human Factors Area:

The depth requirement for human factors and ergonomics students includes both coursework and exam components:

- To take the [Human Factors Qualifying Exam](#), a student will have to have received a grade of AB or better in at least **one depth course in each of the following three areas**:
 - Cognitive Ergonomics
 - Sociotechnical Systems/Macroergonomics
 - Physical Ergonomics.
- Courses can only be counted towards one of the three areas only.
- Courses taken during undergraduate studies can be used to satisfy this requirement.
- Transfer students should submit a course syllabus or description and transcript for any courses from institutions that they would like to have considered for this requirement to prior coursework system link above. The HFE Area group will review and make this decision.



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ISyE PhD Initial Course Planning: See [ISyE Graduate Handbook](#), page 29 for list of HF depth courses.

Depth AREA	COURSE #	COURSE TITLE	SEM / YEAR PLANNING TO TAKE
Cognitive Ergonomics			
Sociotechnical Systems / Macro- ergonomics			
Physical Ergonomics			

ISyE Qualifying Exam Requirement (8.1):

The HF Qualifying Exam must be **taken within 5 semesters** of the ISyE graduate program start at UW.

Human Factors Qual Exam Information

Semester / Year HF Qual Exam to Be Taken: _____

HFE 700+ Seminar/Special Topics Course Requirement:

Prior to completion of the [PhD Preliminary Exam](#) (typically 3rd – 4th year of PhD program), Human Factors PhD students must complete at least six seminar / special topics courses (**700 level + and totaling a minimum of 12 credits**) of which at least **3 courses of the six** (and totaling at least 6 credits) must be in the Human Factors and Ergonomics area. Students may use their 700+ level seminar / special topics courses also as breadth courses (see next page) if courses are not Human Factors focused on requirements. Please check with your advisor for approval and if you have questions. Other courses may qualify. Students may submit courses to the [HFE Area Convenor](#) for consideration.



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HFE 700+ Seminar/Special Topics Course Requirement:

Course #	Seminar / Special Topics Course Title	HFE Area	Credits
		TOTAL CREDITS	

ISyE Breadth Requirement (4.4) (12 credits):

The Breadth requirement is to make sure the PhD student achieves minimum competence in multiple areas of industrial and systems engineering. Students must take at least two courses (6 credits) in **Methodology** and two courses (six credits) in **Application areas** approved by their advisor chosen from the approved course list ([ISyE Graduate Handbook](#), pages 30-32). Students must obtain a grade of B or above in all courses. **Breadth courses must be completed before a PhD student can request their Preliminary Exam Warrant.** [Prior /transfer coursework](#) may be applied toward the breadth requirement with program approval and includes a review of the course title and syllabus, including courses taken as an undergraduate.

	COURSE #	COURSE TITLE	Credits	Semester / Year
Methodology				
Methodology				
Applications				
Applications				

ISyE Colloquium / Lecture Series Requirement (Approved by Advisor) (4.5)

For at least three semesters, students must enroll and regularly attend the [ISyE 961 Colloquium Series](#) with participation confirmed by the student's faculty advisor when the student submits their PhD Preliminary Exam request. (*ISyE 961 ISyE PhD Graduate Seminar in Industrial Engineering does NOT meet this requirement*).

COURSE #	COLLOQUIUM / SEMINAR INFORMATION	Semester / Year
	TOTAL	3 SEMESTERS



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Teaching Assistant (TA) Requirement (4.6):

Recognizing the importance of instructional training to our PhD students, each student in the PhD program is required to serve as a teaching assistant **for at least one semester** during their program. Requests for a partial or full waiver of this requirement should be submitted in writing to the Associate Chair for Graduate Studies and will be reviewed by the Academic Affairs Cluster. **Tentative Semester of TA Position:** _____

Prior Coursework / Transfer Coursework (If applicable):

Students should submit prior coursework transfer requests the first year of their program in the [ISyE Prior Coursework System](#) for review and approval by the department. Coursework earned **ten or more years** prior to admission to a master's degree or doctoral degree is not allowed to satisfy [Graduate School minimum credit requirements](#). [Grad School Prior Coursework Policy](#)

Prior Transfer Coursework (Only if applicable & approved)				
Name of Institution(s):				
Sem / Year Taken	Course #	Course Title	Credits	Grade
Total Credits				

Minor Program Information (4.2): Please review [Graduate School Breadth \(Minor\) Policy](#). Once your doctoral minor program is decided, please have your [Minor program information](#) officially added to your UW ISyE PhD program information. To declare, please submit an [Add/Change program request](#) to the Graduate School thru your MyUW student center. Minor requirement must be completed at the latest by the end of the same semester in which the Prelim Examination is done.

Minor Option A (In another department): _____

Minor Department

Minor Option B (Distributed)

Faculty Advisor: _____ (Last, First)

Advisor Signature

Date



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ISyE Department Review & Approval (Office Use Only)

ISyE Graduate Chair of Academic Affairs:

Signature

Date

GSC Rev:

Signature

Date