



For <b>CECS ADGER</b> only
Date Reviewed:
Initials:

### Ph.D. in I&SE Student Plan of Study

The form should be completed by the end of your first year and submitted to the department's Ph.D. Program Chair.

Student Last Name	Student First Name	UMID
Program Name	Faculty/Research Advisor	Uniquname
Department	First Enrollment Term	Expected Graduation Date
Concentration	Research Interest	

**Section 1.** Complete the tentative course plan with your Faculty/Research Advisor. Students with a UM master's degree require a minimum of 6 new credits, and non-UM master's degree holders require 18 new credits. Students without master's degrees (Direct Ph.D) require a minimum of 36 new credits, and the selected courses must satisfy the requirement of the MSE degree in Industrial and Systems Engineering.

Course (ISE 600)	Title	Term (W24, F24) Planned/Actual	Grade	Credit Hours
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BREADTH / CORE AREA (9 CREDITS)				
IMSE 505	Optimization			3
IMSE 514	Multivariate Statistics			3
IMSE 581	Production and Operations Engineering II			3
IMSE 548	Research Methods in Human Factors and Ergonomics			3

DEPTH / CONCENTRATION AREA (9 CREDITS in the same concentration area from the approved course list )				

COGNATE AREA (4 CREDITS from approved course list) MINIMUM GRADE "B" *can use course from Master's degree				

IMSE 791				

SEMINAR (0 CREDITS)				
ENGR 700	Doctoral Research Methodology Seminar (Must complete in the first year)		S/U	0

Other Requirements (14 credits for direct Ph.D student)					

**Section 2. Dissertation Research Requirement**

DISSERTATION COURSEWORK (24 CREDITS)		Fall	Winter	Summer	Total Credits
IMSE 980/990	Dissertation Research				
IMSE 990	Dissertation Research				
IMSE 990	Dissertation Research				
IMSE 990	Dissertation Research				
IMSE 990	Dissertation Research				

**Section 3. Fill in the following with expected completion dates.**

MILESTONES	Term	Status
QUALIFYING EXAM		
RESPONSIBLE CONDUCT OF RESEARCH REQ.		
DISSERTATION PROPOSAL		
APPLY FOR CANDIDACY		
JOURNAL/CONFERENCE PUBLICATION SUBMISSION		
DISSERTATION DEFENSE		

QUALIFYING GPA COURSES
IMSE 505
IMSE 514
IMSE 581
IMSE 548

The program requires a minimum 3.3 out 4.0 cumulative GPA.

\_\_\_\_\_  
Student (signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Faculty Advisor (signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Ph.D. Program Director (signature)

\_\_\_\_\_  
Date

We reviewed the Study Plan and assessed the student’s progress towards the degree. Please include attachments if needed.

Annual Progress Report	Comments/Accomplishments/Concerns	Student Initials	Advisor Initials	Director Initials
Year 1 / Date:				
Year 2 / Date:				
Year 3 / Date:				
Year 4 / Date:				
Year 5 / Date:				