

# **ISYE MS REQUIREMENTS: Health Systems Research Area (1/07 & Beyond)**

STUDENT NAME: \_\_\_\_\_ CAMPUS ID# \_\_\_\_\_ DATE: \_\_\_\_\_

ADVISOR NAME: \_\_\_\_\_ ADVISOR SIGNATURE: \_\_\_\_\_

Cont. on For PHD? Yes      No      Graduation Requirements Confirmed (office use only): \_\_\_\_\_

<b>Foundation Courses (6 cr min)</b>		<b>Term Taken</b>	<b>Grade</b>
ISyE 417	Introduction to Health Systems Engineering		
ISyE 610	Design of Program Evaluation Systems		
ISyE 617	Health Information Systems		
Auth Substitution			
<b>Design and Analysis (3 cr min)</b>		<b>Term Taken</b>	<b>Grade</b>
ISyE 515	Engr Mgmt Continuous Process Improvement		
ISyE 516	Introduction to Decision Analysis		
ISyE 653	Job and Organizational Design		
ISyE 691	Special Topics: Long Term Care		
Auth Substitution			
Auth Substitution			
<b>Statistics (3 cr min)</b>		<b>Term Taken</b>	<b>Grade</b>
Ed Psych 711	Hierarchical Linear Modeling		
Ed Psych 862	Multivariate Analysis		
Psych 610	Statistical Analysis of Psychological Experiments		
Stat 333	Applied Regression Analysis		
Stat 424/824	Statistical Experimental Design for Engineers		
Stat 541	Introduction to Biostatistics		
Stat 701	Applied Time Series Analysis, Forecasting & Control I		
Auth Substitution			
<b>ISyE Tools (6 cr min)</b>		<b>Term Taken</b>	<b>Grade</b>
ISyE 513	Capital Investment Analysis		
ISyE 517	Decision Making In Health Care		
ISyE/OTM 620	Discrete Event Simulation		
ISyE 624	Stochastic Modeling		
ISyE 633	Queuing Theory		
ISyE 691	Topic – MUST BE approved IN ADVANCE by advisor		
ISyE 723	Dynamic Programming		
ISyE 816	Topic – MUST BE approved IN ADVANCE by advisor		
ISyE 729	Behavioral Analysis of Management Decision Making		
Auth Substitution			
Auth Substitution			
<b>CONCENTRATION AREA (6 cr min in one area)</b>			
<b>Area 1: Electronic Health Care</b>		<b>Term Taken</b>	<b>Grade</b>
Ag 617	Interactive Health Communication		
ISyE 662	Design and Human Disability and Aging		
ISyE 671	E-Busn: Technologies, Strategies & Applications		
ISyE 672	E-Busn Transformation: Design, Analysis & Justification		
Auth Substitution			
Auth Substitution			
<b>Area 2: Health Outcomes &amp; Evaluation</b>		<b>Term Taken</b>	<b>Grade</b>
Nurs 716	Health Program Planning, Eval & Quality Improvement		
PHS 795	Determinants of Health*		
PHS 797	Introduction to Epidemiology		
PHS/ISyE 875	Assessment of Medical Technologies** – MUST BE approved IN ADVANCE by advisor		
PHS 876	Measuring Health Outcomes		
Auth Substitution			

## **ISYE MS REQUIREMENTS: Health Systems Research Area (1/07 & Beyond)**

<b>Area 3: Quality/Safety</b>		<b>Term Taken</b>	<b>Grade</b>
ISyE 555	Accident Causation		
ISyE 556	Occupational Health and Safety		
ISyE 575	Introduction to Quality Engineering		
ISyE 715	Advanced Methods for Quality Improvement		
ISyE 854	Special Topics in Organization Design		
Auth Substitution			
<b>Electives (6 Credits)</b>	MUST BE approved IN ADVANCE by advisor	<b>Term Taken</b>	<b>Grade</b>

\*Students can receive credit for either ISyE 417 or PHS 795 but not both.

### **EXIT REQUIREMENT**

In order to be eligible for graduation, a Master's student must:

- Have a GPA of 3.0 or higher
- Meet all MS degree requirements for their focus area
- Have all grades entered, except for the current semester. No Is or NRs can show on the student's transcript.
- Be enrolled in at least 2cr the semester in which they graduate.
- Have their MS degree warrant signed and dated by the degree deadline.

### **JOB PLACEMENT**

Engineering Career Services Office  
1550 Engineering Drive, Rm M1002  
Madison, WI 53706  
Tel: (608) 262-3471  
FAX: (608) 262-7262  
<http://www.engr.wisc.edu/services>

### **FURTHER INFORMATION**

University of Wisconsin-Madison  
Industrial Engineering Department  
1513 University Avenue, Rm 3270  
Madison, WI 53706-1572  
Tel: (608) 263-3955  
FAX: (608) 262-8454  
Email: [ie-admission@engr.wisc.edu](mailto:ie-admission@engr.wisc.edu)  
<http://www.engr.wisc.edu/ie>