

# Operations Research (PhD)

## Degree Requirements

Code	Title	Hours	Counts towards
<b>Required Courses</b>			<b>17</b>
<b>Requirement A Course</b>			
OR 801	Seminar in Operations Research		
<b>Requirement B Course</b>			
Select one of the following:			
OR 505	Linear Programming		
OR 506	Algorithmic Methods in Nonlinear Programming		
OR 709	Dynamic Programming		
<b>Requirement C Courses</b>			
Select four of the following:			
OR 501	Introduction to Operations Research		
OR 504	Introduction to Mathematical Programming <sup>1</sup>		
or OR 505	Linear Programming		
CSC 505	Design and Analysis Of Algorithms		
OR 506	Algorithmic Methods in Nonlinear Programming <sup>1</sup>		
ST 516	Experimental Statistics For Engineers II		
OR 531	Dynamic Systems and Multivariable Control I		
OR 537	Computer Methods and Applications		
MA/ST 546	Probability and Stochastic Processes I		
OR 560	Stochastic Models in Industrial Engineering		

OR 562	Simulation Modeling
OR 706	Nonlinear Programming
OR 708	Integer Programming
OR 709	Dynamic Programming <sup>1</sup>
MA/ST 747	Probability and Stochastic Processes II
OR 760	Applied Stochastic Models in Industrial Engineering
OR 761	Queues and Stochastic Service Systems
OR 762	Computer Simulation Techniques
OR 772	Stochastic Simulation Design and Analysis

### Elective Courses 6-55

"Elective Courses" are determined in conjunction with the academic committee to meet the 72 total credit hours

### Total Hours 23-72

- <sup>1</sup> OR 505, OR 506, and OR 709 cannot be double counted toward "Requirement C" courses if already used toward "Requirement B" courses.
- <sup>2</sup> "Elective Courses" cannot be double counted if already used to fulfill requirements "A-C" courses

John W. Baugh

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Do Young Eun

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