A list of courses that can be used to satisfy the PhD core program requirements

**Optimization Subjects:**
- 6.7210J/15.081J  Introduction to Mathematical Programming
- 6.7220J/15.084J  Nonlinear Optimization
- 6.7230J/18.456J  Algebraic Techniques and Semidefinite Optimization
- 15.083  Integer Programming and Combinatorial Optimization
- 15.094J/1.142J  Robust Modeling, Optimization, and Computation

**Applied Probability Subjects:**
- 6.7700J/15.085J  Fundamentals of Probability
- 6.7710  Discrete Stochastic Processes
- 6.7720J/15.070J  Discrete Probability and Stochastic Processes

**Statistics Subjects:**
- 6.7250  Optimization for Machine Learning
- 6.7800  Inference and Information
- 6.7810  Algorithms for Inference
- 6.7900  Machine Learning
- 15.095  Machine Learning Under a Modern Optimization Lens
- HA STAT 211  Statistical Inference I

**OR Modeling Subjects:**
- 1.203J/15.073J, etc.  Applied Probability and Stochastic Models
- 6.7240  Game Theory with Engineering Applications
- 6.7260  Network Science and Models
- 6.7930  Machine Learning for Healthcare
- 15.072  Advanced Analytics Edge
- 15.094J/1.142J  Robust Modeling, Optimization, and Computation
- 15.764.1J/1.271J/IDS.250J  Inventory Theory and Supply Chains
- 15.764.2J/1.271J/IDS.250J  Revenue Management and Pricing
- 15.795  Behavioral Decision Theories and Applications