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/HST.956J 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