15. Management Science Major: Concentrations

(Please note: two six-unit subjects count as one elective)

Business Analytics and Operations Research (2 subjects)
2.852, Manufacturing Systems Analysis
6.034, Artificial Intelligence
6.036, Introduction to Machine Learning
6.046, Design and Analysis of Algorithms
6.938, Engineering Risk-Benefit Analysis
14.12, Economic Applications of Game Theory
15.025/15.0251, Game Theory for Strategic Advantage
15.0341/15.034, Metrics for Managers: Big Data and Better Answers
15.0621/15.062, Data Mining: Finding the Data and Models that Create Value (half subject)
15.068, Statistical Consulting
15.0711/15.071, The Analytics Edge
15.073, Logistical and Transportation Planning Methods
15.565, Digital Evolution: Managing Web 3.0
15.762, Supply Chain Planning (half subject)
15.763, Manufacturing System and Supply Chain Design (half subject)
15.770, Logistics Systems
15.772, D-Lab: Supply Chains
15.871, Introduction to System Dynamics (half subject)
15.872, System Dynamics II (half subject)
18.453, Combinatorial Optimization (formerly 18.433)

Prof. James Orlin provides a list of additional BAOR electives and information about the concentration on his BAOR Concentration pages.

Finance (3 subjects)
15.402, Corporate Finance or 15.418, Laboratory in Corporate Finance (REQUIRED)
15.431/15.433, Financial Markets (formerly Investments)
15.4341/15.434, Advanced Corporate Finance
15.4371/15.437, Options and Futures Markets
15.438, Fixed Income Securities and Derivatives
15.439, Investment Management
15.444, International Finance: Corporate Finance
15.445, Mergers, Acquisitions, and Private Equity (offered in Spring 2017)
15.447, International Finance: Capital Markets
15.450, Analytics of Finance
15.460, Financial Engineering
15.466, Functional and Strategic Finance
15.467, Retirement Finance, Lifecycle Investing and Asset Management
15.487, Algorithmic Trading and Investment Strategies (offered in Spring 2017)
15.496, Practice of Finance: Data Technologies for Quantitative Finance
15.518/15.518, Taxes and Business Strategy
15.535, Business Analysis Using Financial Statements

Information Technology (2 subjects)
15.320, Strategic Organizational Design
15.358, Software and Internet Entrepreneurship
15.376, Media Ventures
15.567, The Economics of Information: Strategy, Structure and Pricing
15.570, Digital Marketing and Social Media Analytics (half subject)
15.571, Business Strategy and the Role of IT

Marketing Science (3 subjects)
At least one subject from:
1.202, Demand Modeling
15.0341/15.034, Metrics for Managers: Big Data and Better Answers
15.068, Statistical Consulting
15.570, Digital Marketing and Social Media Analytics (half subject)
15.818, Pricing (half subject)
15.821, Listening to the Customer (half subject)
15.822, Strategic Market Measurement (half subject)

Remaining subjects from:
15.828, Product Management
15.833, Business-to-Business Marketing
15.834, Marketing Strategy (half subject)
15.835, Entrepreneurial Marketing (half subject)
15.846, Branding (half subject)
15.847, Consumer Behavior