Data Science Graduate Course Chart

**Undergraduate Background**
- **B.S. Degree in Computer Science**
  - CS517: Math FDT for Data Science

- **B.S. Degree in Math**
  - MA543: Statistical Methods for Data Science

- **B.A. Degree in Business**
  - CS507: Intro to Prog. Concepts, Data Structures and Algorithms

- **Other**
  - CS5007: Intro to Data Science

**Core Courses**
- 5 courses required

**Integrative Data Science**
- **Electives**
  - 2 or 4 courses

**Data Access and Management**
- **CS542**: Database Management System
- **MIS571**: Database Applications Development
- **CS561**: Advanced Topics in Database Systems
- **DS503/DS585**: Big Data Management

**Mathematical Analytics**
- **MA542**: Regression Analysis
- **MA554**: Applied Multivariate Analysis

**Business Intelligence and Case Studies**
- **MKT568**: Data Mining Business Application
- **MIS587**: Business Application in Machine Learning

**Data Analytics and Mining**
- **CS548**: Knowledge Discovery & Data Mining
- **DS539**: Machine Learning

**Electives**
- 4 elective courses required

**Capstone**
- **DS598**: Graduate Qualifying Project

**2 elective courses required**
- **DS599**: Master's Thesis

**M.S. Degree in Data Science**
- 10 courses required
  - No more than 13 credits from Business School

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