### Analytics Co-Major

As of July 2016

**Core coursework:**

1. **Data Description & Summarization:** Select 1
   - STA 301 (3) Applied Statistics
   - STA 368 (4) Introduction to Statistics (ends Spring 2014)
   - ISA 205* (4) Business Statistics
   - STA 261 (4) Statistics

2. **Data Management—Structured:** Select 1
   - ISA 245* (3) Database Systems & Data Warehousing
   - CSE 385 (3) Database Systems

3. **Visualizing Data & Digital Dashboards**
   - STA/IMS/JRN 404 (3) Advanced Data Visualization (Offered once a year)

4. **Regression Course:** Select 1
   - ISA 291* (3) Applied Regression Analysis in Business
   - STA 363 (3) Regression & Design of Experiments
   - STA 463 (3) Regression Analysis

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**Choose from two tracks on right to complete co-major**

#### Business Analytics:

5a. **Required:**
   - ISA 491* (3) Introduction to Data Mining in Business (Fall only)
   - ISA 414 (3) Managing Big Data (Spring only)

5b. **Electives: Select 2**
   - ISA 401** (3) Business Intelligence & Data Visualization
   - ISA 444** (3) Business Forecasting

5c. **Electives: Select 3 credit hours**
   - ISA 321** (3) Quantitative Analysis of Business Problems
   - STA 402** (3) Statistical Programming
   - ISA 432 (3) Survey Sampling in Business
   - ISA/STA 333 (3) Nonparametric Methods (Offered once a year)
   - ISA 401** (3) Business Intelligence & Data Visualization
   - ISA 444** (3) Business Forecasting
   - ISA/STA 365 (3) Statistical Quality Controls
   - STA 427 (3) Introduction to Bayesian Statistics
   - ISA 480 (1-3) Topics in Analytics

#### Predictive Analysis:

5a. **Required:**
   - STA 402** (3) Statistical Programming
   - STA 427 (3) Introduction to Bayesian Statistics
   - STA 467 (3) Multivariate Analysis
   - ISA 414 (3) Managing Big Data (Spring only)

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(Note: For IS majors, at least 18 hours beyond the business core must be courses not counted toward the IS major)