BUSINESS ANALYTICS (COURSE 15-2)

Management Programs (http://catalog.mit.edu/schools/sloan-management/management/#bachelor-science-business-analytics)

Bachelor of Science in Business Analytics

General Institute Requirements (GIRs)
The General Institute Requirements include a Communication Requirement that is integrated into both the HASS Requirement and the requirements of each major; see details below.

Summary of Subject Requirements Subjects
Science Requirement 6
Humanities, Arts, and Social Sciences (HASS) Requirement; at least two of these subjects must be designated as communication-intensive (CI-H) to fulfill the Communication Requirement. 8
Restricted Electives in Science and Technology (REST) Requirement [can be satisfied by 15.053 and 6.0001/6.0002 in the Departmental Program] 2
Laboratory Requirement (12 units) [can be satisfied by 6.01, 6.02, 14.32, or 15.075[J] in the Departmental Program] 1
Total GIR Subjects Required for SB Degree 17

Physical Education Requirement
Swimming requirement, plus four physical education courses for eight points.

Departmental Program
Choose at least two subjects in the major that are designated as communication-intensive (CI-M) to fulfill the Communication Requirement.

Required Subjects Units
6.0001 Introduction to Computer Science Programming in Python 6
6.036 Introduction to Machine Learning 12
15.053 Optimization Methods in Business Analytics 12
15.276 Communicating with Data (CI-M) 12
15.312 Organizational Processes for Business Analytics (CI-M) 12
15.780 Stochastic Models in Business Analytics 12
Select one of the following: 6-12
6.0002 Introduction to Computational Thinking and Data Science 1
6.01 Introduction to EECS via Robotics
6.02 Introduction to EECS via Communication Networks

Select one of the following: 12
14.30 Introduction to Statistical Methods in Economics
15.0791 Introduction to Applied Probability
18.600 Probability and Random Variables

Select one of the following: 12
14.32 Econometric Data Science 2
15.075[J] Statistical Thinking and Data Analysis

Restricted Electives
Select five subjects from the lists below. At least three of the subjects must be from Course 15. 3, 4

Units in Major 144-162
Units in Unrestricted Electives 48-66
Units in Major That Also Satisfy the GIRs (24-36)

Total Units Beyond the GIRs Required for SB Degree 180-186

The units for any subject that counts as one of the 17 GIR subjects cannot also be counted as units required beyond the GIRs.

1 6.00 Introduction to Computer Science and Programming is an acceptable alternative to the combination of 6.0001 and 6.0002.
2 14.32 can count as a Required Subject or as a Restricted Elective, but not both.
3 Two six-unit subjects count as one elective.
4 Consult the Sloan Office of Undergraduate Education regarding additional options.

Restricted Electives
Select three to five of the following:

15.0251 Game Theory for Strategic Advantage 9 1
15.0341 Econometrics for Managers: Correlation and Causality in a Big Data World 9
15.0621 Data Mining: Finding the Models and Predictions that Create Value 6
15.0711 The Analytics Edge 12
15.0741 Predictive Data Analytics and Statistical Modeling 4
15.6731 Negotiation Analysis 6
15.7611 Introduction to Operations Management 9
15.772[J] D-Lab: Supply Chains 12
15.8141 Marketing Innovation 9
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.874</td>
<td>People and the Planet: Environmental Governance and Science</td>
<td>9</td>
</tr>
<tr>
<td>1.022</td>
<td>Introduction to Network Models</td>
<td>12</td>
</tr>
<tr>
<td>1.041</td>
<td>Transportation Systems Modeling</td>
<td>12</td>
</tr>
<tr>
<td>6.034</td>
<td>Artificial Intelligence</td>
<td>12</td>
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<tr>
<td>6.050</td>
<td>Information, Entropy, and Computation</td>
<td>9</td>
</tr>
<tr>
<td>9.40</td>
<td>Introduction to Neural Computation</td>
<td>12</td>
</tr>
<tr>
<td>9.66</td>
<td>Computational Cognitive Science</td>
<td>12</td>
</tr>
<tr>
<td>14.12</td>
<td>Economic Applications of Game Theory</td>
<td>12</td>
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<tr>
<td>14.15</td>
<td>Networks</td>
<td>12</td>
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<td>14.32</td>
<td>Econometric Data Science</td>
<td>12</td>
</tr>
<tr>
<td>18.06</td>
<td>Linear Algebra</td>
<td>12</td>
</tr>
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Select up to two of the following:

- Subject has prerequisites that are outside of the program.
- 14.32 can count as a Required Subject or as a Restricted Elective, but not both.