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

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science Requirement</td>
<td>6</td>
</tr>
<tr>
<td>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.</td>
<td>8</td>
</tr>
<tr>
<td>Restricted Electives in Science and Technology (REST) Requirement (can be satisfied from among 6.0001/6.0002, 6.042[J], 14.30, 18.06, 18.600, and 15.053 or 15.079I in the Departmental Program)</td>
<td>2</td>
</tr>
<tr>
<td>Laboratory Requirement (12 units) (can be satisfied by 14.32, 15.075[J], or 15.417 in the Departmental Program)</td>
<td>1</td>
</tr>
<tr>
<td>Total GIR Subjects Required for SB Degree</td>
<td>17</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Required Subjects</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0001 Introduction to Computer Science Programming in Python</td>
<td>6</td>
</tr>
<tr>
<td>6.0002 Introduction to Computational Thinking and Data Science</td>
<td>6</td>
</tr>
<tr>
<td>6.036 Introduction to Machine Learning</td>
<td>12</td>
</tr>
<tr>
<td>15.053 Optimization Methods in Business Analytics</td>
<td>12</td>
</tr>
<tr>
<td>15.276 Communicating with Data (CI-M)</td>
<td>12</td>
</tr>
<tr>
<td>15.312 Organizational Processes for Business Analytics (CI-M)</td>
<td>12</td>
</tr>
<tr>
<td>15.780 Stochastic Models in Business Analytics</td>
<td>12</td>
</tr>
<tr>
<td>Select one of the following options:</td>
<td>24</td>
</tr>
</tbody>
</table>

Option 1
14.30 Introduction to Statistical Methods in Economics
14.32 Econometric Data Science

Option 2
15.0791 Introduction to Applied Probability or 18.600 Probability and Random Variables
15.075[J] Statistical Thinking and Data Analysis or 18.650[J] Fundamentals of Statistics

Restricted Electives
Select five subjects from the lists below. At least three of the subjects must be from Course 15. 1, 2, 3

| Units in Major | 141-159 |
| Units in Unrestricted Electives | 48-99 |
| Units in Major That Also Satisfy the GIRs | (24-48) |

Total Units Beyond the GIRs Required for SB Degree 180-183
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 14.32 can count as a Required Subject or as a Restricted Elective, but not both.
2 Two six-unit subjects count as one elective.
3 Consult the Sloan Office of Undergraduate Education regarding additional options.

Restricted Electives
Select two to five of the following:

15.0251 Game Theory for Strategic Advantage 1
15.0341 Econometrics for Managers: Correlation and Causality in a Big Data World
15.0621 Data Mining: Finding the Models and Predictions that Create Value
15.0711 The Analytics Edge
15.0741 Predictive Data Analytics and Statistical Modeling 1
15.6731 Negotiation Analysis
15.7611 Introduction to Operations Management
15.772[J] D-Lab: Supply Chains
15.8141 Marketing Innovation
15.874[J] People and the Planet: Environmental Governance and Science

Select up to one of the following:

15.417 Laboratory in Investments
15.501 Corporate Financial Accounting
<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.9001</td>
<td>Competitive Strategy</td>
<td>9</td>
</tr>
</tbody>
</table>

Select up to two of the following:

- 1.022 Introduction to Network Models ¹
- 1.041 Transportation Systems Modeling ¹
- 6.034 Artificial Intelligence
- 6.042[J] Mathematics for Computer Science
- 6.050[J] Information, Entropy, and Computation
- 9.40 Introduction to Neural Computation ¹
- 14.12 Economic Applications of Game Theory ¹
- 14.15[J] Networks
- 14.32 Econometric Data Science ²
- 18.06 Linear Algebra
- 18.615 Introduction to Stochastic Processes
- IDS.012[J] Statistics, Computation and Applications

¹ Subject has prerequisites that are outside of the program.
² 14.32 can count as a Required Subject or as a Restricted Elective, but not both.