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>Subjects</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[], 14.30, 18.06, 18.600, and 15.053 or 15.0791 in the Departmental Program]</td>
<td>2</td>
</tr>
<tr>
<td>Laboratory Requirement (12 units) [can be satisfied by 14.32, 15.075[], 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>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

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.30 Introduction to Statistical Methods in Economics</td>
</tr>
<tr>
<td>14.32 Econometric Data Science</td>
</tr>
</tbody>
</table>

Option 2

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.0791 Introduction to Applied Probability or 18.600 Probability and Random Variables</td>
</tr>
<tr>
<td>15.075[] Statistical Thinking and Data Analysis or 18.650[] Fundamentals of Statistics</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.0251 Game Theory for Strategic Advantage</td>
</tr>
<tr>
<td>15.0341 Econometrics for Managers: Correlation and Causality in a Big Data World</td>
</tr>
<tr>
<td>15.0621 Data Mining: Finding the Models and Predictions that Create Value</td>
</tr>
<tr>
<td>15.0711 The Analytics Edge</td>
</tr>
<tr>
<td>15.0741 Predictive Data Analytics and Statistical Modeling</td>
</tr>
<tr>
<td>15.6731 Negotiation Analysis</td>
</tr>
<tr>
<td>15.7611 Introduction to Operations Management</td>
</tr>
<tr>
<td>15.772[] D-Lab: Supply Chains</td>
</tr>
<tr>
<td>15.8141 Marketing Innovation</td>
</tr>
<tr>
<td>15.874[] People and the Planet: Environmental Governance and Science</td>
</tr>
<tr>
<td>Select up to one of the following:</td>
</tr>
<tr>
<td>15.417 Laboratory in Investments</td>
</tr>
<tr>
<td>15.501 Corporate Financial Accounting</td>
</tr>
<tr>
<td>Course Code</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>15.9001</td>
</tr>
<tr>
<td>1.022</td>
</tr>
<tr>
<td>1.041</td>
</tr>
<tr>
<td>6.034</td>
</tr>
<tr>
<td>6.050[J]</td>
</tr>
<tr>
<td>9.40</td>
</tr>
<tr>
<td>14.12</td>
</tr>
<tr>
<td>14.15[J]</td>
</tr>
<tr>
<td>14.32</td>
</tr>
<tr>
<td>18.06</td>
</tr>
<tr>
<td>18.615</td>
</tr>
<tr>
<td>IDS.012[J]</td>
</tr>
</tbody>
</table>

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.