BUSINESS ANALYTICS (COURSE 15-2)


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) | 8
Requirement; at least two of these subjects must be designated as communication-intensive (CI-H) to fulfill the Communication Requirement.
Restricted Electives in Science and Technology (REST) Requirement [can be satisfied from among 6.100A/6.100B, 6.1200[J], 14.30, 18.05, 18.06, and 15.053 or 15.069 in the Departmental Program] | 2
Laboratory Requirement (12 units) [can be satisfied by 15.076 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
--- | ---
6.100A | Introduction to Computer Science Programming in Python | 6
6.1010 | Fundamentals of Programming | 6-12
or 6.100B | Introduction to Computational Thinking and Data Science | 6
6.3900 | Introduction to Machine Learning | 12
or 15.0711 | The Analytics Edge | 12
15.053 | Optimization Methods in Business Analytics | 12
15.076 | Analytics for a Better World | 12
15.276 | Communicating with Data (CI-M) | 12
15.312 | Organizational Processes for Business Analytics (CI-M) | 12
15.780 | Analytics of Operations Management | 12

Select one of the following:
- 15.069 Applied Probability and Statistics
- 14.30 Introduction to Statistical Methods in Economics
- 18.05 Introduction to Probability and Statistics

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

Units in Major | 141-165
Units in Unrestricted Electives | 48-87
Units in Major That Also Satisfy the GIRs | 24-36
Total Units Beyond the GIRs Required for SB Degree | 180-198

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 Two six-unit subjects count as one elective.
2 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 | 9
- 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
- 15.6731 Negotiation Analysis | 6
- 15.690 Diversity as Discovery | 6
- 15.7611 Introduction to Operations Management | 9
- 15.8141 Marketing Innovation | 9
- 15.874[J] People and the Planet: Environmental Governance and Science | 9

Select up to one of the following:
- 15.417 Laboratory in Investments | 15
- 15.501 Corporate Financial Accounting | 12
- 15.9001 Competitive Strategy | 9

Select up to two of the following:
- 1.022 Introduction to Network Models | 12

Business Analytics (Course 15-2) | 3
<table>
<thead>
<tr>
<th>Subject ID</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.4100</td>
<td>Artificial Intelligence</td>
<td>12</td>
</tr>
<tr>
<td>9.40</td>
<td>Introduction to Neural Computation</td>
<td>12</td>
</tr>
<tr>
<td>14.12</td>
<td>Economic Applications of Game Theory</td>
<td>12</td>
</tr>
<tr>
<td>14.15[J]</td>
<td>Networks</td>
<td>12</td>
</tr>
<tr>
<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>
<tr>
<td>18.C06[J]</td>
<td>Linear Algebra and Optimization</td>
<td>12</td>
</tr>
<tr>
<td>18.615</td>
<td>Introduction to Stochastic Processes</td>
<td>12</td>
</tr>
<tr>
<td>IDS.012[J]</td>
<td>Statistics, Computation and Applications</td>
<td>12</td>
</tr>
</tbody>
</table>

1 Subject has prerequisites that are outside of the program.
2 15.071 can count as a Required Subject or as a Restricted Elective, but not both.