

## 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 from among 6.100A/6.100B, 6.1200[)], 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
<b>Total GIR Subjects Required for SB Degree</b>	<b>17</b>

#### 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 or 6.100B Introduction to Computational Thinking and Data Science	6-12
6.3900 Introduction to Machine Learning 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: 12

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.<sup>1, 2</sup> 45-63

<b>Units in Major</b>	<b>141-165</b>
<b>Units in Unrestricted Electives</b>	<b>48-87</b>
Units in Major That Also Satisfy the GIRs	(24-36)
<b>Total Units Beyond the GIRs Required for SB Degree</b>	<b>180-198</b>

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

<sup>1</sup> Two six-unit subjects count as one elective.

<sup>2</sup> Consult the Sloan Office of Undergraduate Education regarding additional options.

#### Restricted Electives

Select two to five of the following:

15.0201[)]	Economics of Energy, Innovation, and Sustainability	12
15.0251	Game Theory for Strategic Advantage <sup>1</sup>	9
15.0341	Econometrics for Managers: Correlation and Causality in a Big Data World	9
15.037[)]	Energy Economics and Policy	12
15.0621	Data Mining: Finding the Models and Predictions that Create Value	6
15.0711	The Analytics Edge <sup>2</sup>	12
15.6731	Negotiation Analysis	6
15.690	Diversity as Discovery	6
15.7611	Introduction to Operations Management	9
15.8141	Marketing Innovation	9
15.8731	System Dynamics: Tools for Solving Complex Problems	9
15.874[)]	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 <sup>1</sup>	12
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1.041[[]]	Transportation: Foundations and Methods <sup>1</sup>	12
6.1200[[]]	Mathematics for Computer Science	12
6.4100	Artificial Intelligence	12
9.40	Introduction to Neural Computation <sup>1</sup>	12
9.66[[]]	Computational Cognitive Science	12
14.12	Economic Applications of Game Theory <sup>1</sup>	12
14.15[[]]	Networks	12
14.32	Econometric Data Science	12
18.06	Linear Algebra	12
18.Co6[[]]	Linear Algebra and Optimization	12
18.615	Introduction to Stochastic Processes	12
IDS.012[[]]	Statistics, Computation and Applications	12

<sup>1</sup> Subject has prerequisites that are outside of the program.

<sup>2</sup> 15.0711 can count as a Required Subject or as a Restricted Elective, but not both.