MANAGEMENT

Undergraduate Study

Bachelor of Science in Management (Course 15-1)

The Bachelor of Science in Management (*https://catalog.mit.edu/degree-charts/management-course-15-1*) provides students with an innovative business education that is comprehensive and flexible. Students begin with coursework that builds a strong foundation in probability and statistics, managerial communication, managerial psychology, microeconomics, and accounting. They augment this foundation by selecting two restricted electives in core business functions: finance, operations management, marketing, and strategy. Students then tailor the remainder of their program by selecting five electives that go into depth in an individualized concentration area. The Undergraduate Education Office and the Course 15 advisor provide guidance and approval for the concentration to ensure students achieve a coherent focus.

Bachelor of Science in Business Analytics (Course 15-2)

The Bachelor of Science in Business Analytics (*https://catalog.mit.edu/degree-charts/business-analytics-course-15-2*) program is for students with a strong interest and ability in math and computer science. Students learn techniques such as data modeling and analysis, optimization, and machine learning, so as to help businesses make improved decisions and design efficient processes. Electives provide the opportunity to learn additional methodologies, such as artificial intelligence, systems dynamics, and game theory; take advanced subjects in probability, statistics, and optimization; or study how analytics is applied in content areas such as operations, transportation, marketing, and finance. Students can also refine their skills in practice-based project courses.

Bachelor of Science in Finance (Course 15-3)

At the intersection of economics, strategy, and accounting, finance is about managing assets to keep markets and organizations operating. The Bachelor of Science in Finance (*https://catalog.mit.edu/degree-charts/finance-course-15-3*) is designed to train students for careers that focus on the theory and application of the tools of modern finance. The curriculum provides a theoretical foundation in managerial finance, corporate finance, and investments, and requires students to complete laboratory and communications subjects to ensure they have the ability to apply the tools of finance to industry. The restricted electives permit students flexibility to select the rest of their program from advanced topics in, and topics complementary to, finance.

Minor in Management

The Minor in Management provides undergraduates in other majors with an understanding of the business, human, and organizational dimensions of scientific and technological enterprise.

The minor consists of six subjects:

Required subjects		
15.301	People, Teams, and Organizations Laboratory	12-15
or 15.312	Organizational Processes for Business Analytics	
15.501	Corporate Financial Accounting	12
Select one of the following:		9-15
15.417	Laboratory in Investments	
15.7611	Introduction to Operations Management [1]	
15.8141	Marketing Innovation	
15.9001	Competitive Strategy	
Electives		
Select any three Course 15 subjects other than Undergraduate Research Opportunities Program (UROP) and general-elective transfer credit. (Two six-unit subjects count as a single elective subject.) [2]		27-36
Total Units		**60-78**

[1] *Subject has prerequisites that are outside of the program.*

[2] *14.01 Principles of Microeconomics is also a permissible elective.*

Minor in Business Analytics

The Minor in Business Analytics introduces data analysis techniques and their application to practical business problems. Its focus reflects the core content of the SB degree program in business analytics.

The minor consists of six subjects:

15.053	Optimization Methods in Business Analytics	12
15.076	Analytics for a Better World	12
15.069	Applied Probability and Statistics	12
or 14.30	Introduction to Statistical Methods in Economics	
or 18.05	Introduction to Probability and Statistics	
Select three additional subjects from a list of electives. (Consult Sloan Undergraduate Education Office regarding additional options.) At least two of the subjects must be from Course 15. Two six unit subjects count as one elective.		27-36
Total Units		**63-72**

Electives		
6.1200[J]	Mathematics for Computer Science	12
6.3900	Introduction to Machine Learning	12
6.4100	Artificial Intelligence	12
14.12	Economic Applications of Game Theory	12
14.15[J]	Networks	12

14.32	Econometric Data Science	12
15.0201[J]	Economics of Energy, Innovation, and Sustainability	12
15.0251	Game Theory for Strategic Advantage	9
15.0341	Econometrics for Managers: Correlation and Causality in a Big Data World	9
15.037[J]	Energy Economics and Policy	12
15.0621	Data Mining: Finding the Models and Predictions that Create Value	6
15.0711	The Analytics Edge	12
15.276	Communicating with Data	12
15.312	Organizational Processes for Business Analytics	12
15.6731	Negotiation Analysis	6
15.690	Diversity as Discovery	6
15.7611	Introduction to Operations Management	9
15.780	Analytics of Operations Management	12
15.8141	Marketing Innovation	9
15.8731	System Dynamics: Tools for Solving Complex Problems	9
15.874[J]	People and the Planet: Environmental Governance and Science	9
18.06	Linear Algebra	12
18.C06[J]	Linear Algebra and Optimization	12
18.615	Introduction to Stochastic Processes	12
IDS.012[J]	Statistics, Computation and Applications	12

Minor in Finance

The Minor in Finance provides an understanding of the major areas of finance—corporate finance and investments. The minor will prepare students to understand and apply financial tools for different roles in financial industries or corporate finance positions.

The minor consists of five subjects:

Required Subjects		
15.417	Laboratory in Investments	15
15.418	Laboratory in Corporate Finance	15
15.501	Corporate Financial Accounting	12
Electives		
Select two of the following: [1]		18
15.4311	Entrepreneurial Finance and Venture Capital	
15.4331	Financial Markets	
15.4341	Advanced Corporate Finance	
15.4371	Options and Futures Markets	
15.4451	Mergers, Acquisitions, and Private Equity	
15.5181	Taxes and Business Strategy	
Total Units		**60**

[1] *Consult the Sloan Undergraduate Education Office regarding additional options.*

Interdepartmental (Non-Course 15) Students

Course 15 undergraduate subjects are open for WebSIS pre-registration or online registration. There is no bidding necessary for undergraduate subjects. All students who wish to take unrestricted Sloan graduate subjects should consult the MIT Sloan undergraduate website (*http://mitsloan.mit.edu/undergrad*) where the course schedule and course syllabi are most readily available for assistance in subject selection.

Inquiries

For additional information about these Course 15 undergraduate programs or about taking a Course 15 class, students are encouraged to visit or contact the Office of Undergraduate Education, Room E52-154 (Suite 133), 617-253-8614, and the MIT Sloan undergraduate website (*http://mitsloan.mit.edu/undergrad*).