

BUSINESS ANALYTICS, BBA

Campus: NYC

Bachelor of Business Administration

The Business Analytics (BA) major provides mathematically talented students with cutting-edge, hands-on training in analytical tools and business decision modeling that are in high demand by employers today. The interdisciplinary major consists of courses in data analysis, information technology, quantitative modeling, providing comprehensive training in analytical techniques and software tools. Business Analytics major is STEM-approved, offering international students the ability to work for a longer period without immediate need of sponsorship.

Major Completion Summary

Requirement	Credits
University Core Requirements	53
Major Requirements	56
Open Electives	19
Total Credits	128

University Core Requirements (53 Credits)

See complete University Core (<http://catalog.pace.edu/undergraduate/university-core-curriculum/>) requirements.

Includes several of the major-required courses listed below:

Code	Title	Credits
Foundation Requirements		
MAT 104	Finite Mathematics	3
MAT 117	Elementary Statistics	4
or MAT 134	Introduction to Probability and Statistics	
or MAT 144	Introduction to Probability and Statistics for Economics	
or MAT 234	Introduction to Probability and Statistical Analysis	
CIS 101	Introduction to Computing	3
or TS 105	Computers for Human Empowerment	
Lubin Foundation Requirement in Quantitative Reasoning ¹		
ECO 105	Principles of Economics: Macroeconomics	3
ECO 106	Principles of Economics: Microeconomics	3
MAT 111	Elementary Calculus I	3 or 4
or MAT 131	Calculus I	
MAT 117	Elementary Statistics ²	4

¹ These four courses are applied to the University Core Areas of Knowledge (AOK) requirement as an In-depth Sequence in Quantitative Reasoning. Therefore, Lubin majors are required to complete only one course from each of the four Areas of Knowledge. See Lubin Foundation Requirement (<http://catalog.pace.edu/undergraduate/schools/lubin-school-business/university-core-curriculum-requirements-lubin-majors/#business-foundation>) in Quantitative Reasoning for more details.

² MAT 117 Elementary Statistics satisfies one course in AOK- HSN (AOK5)

Major Requirements (56 Credits)

Code	Title	Credits
Business Core ¹		
BUS 101	Contemporary Business Practice	3
ACC 203	Financial Accounting	4
ACC 204	Managerial Accounting	4
FIN 260	Financial Management	3
LAW 150	Business Law I	3
MAR 201	Principles of Marketing	3
MGT 150	Managerial and Organizational Concepts	3

MGT 226	Business Analytics	3
MGT 490	Business Strategy	3
Major Requirements		
MGT 150	Managerial and Organizational Concepts ²	(3)
MGT 226	Business Analytics ²	(3)
MGT 490	Business Strategy ²	(3)
International Course in a Business Discipline		3
CIS 143 or MGT 227	Introduction to SQL for Business	3
MGT 251 or CIT 201	Introduction to Programming for Data Science Introduction to Programming Using Python	3
MGT 353	Predictive Analytics	3
MGT 388 or CIT 348	Machine Learning for Business Data Mining	3
Business Analytics Electives		
Group 1: Select two of the following (6 credits):		6
MGT 356	Simulation and Risk Analysis	
MGT 386	Optimization Models	
MAR 368	Visual Analytics	
Group 2: Select two of the following (6 credits):		6
One from Group 1		
ACC 375	Accounting Information Systems	
CIS 122L	Advanced Spreadsheet Skills - Test Prep	
ECO 381	Applied Game Theory	
ECO 387	Mathematical Economics II	
FIN 325	Data Analysis in Finance	
MGT 350	Operations and Supply Chain Management	
MGT 357	Project Management for Business	
MAT 132	Calculus II	
MAT 218	Applied Regression Models	
MAT 238	Linear Algebra	
Total Credits		56

¹ See Business Core Requirements (<http://catalog.pace.edu/undergraduate/schools/lubin-school-business/university-core-curriculum-requirements-lubin-majors/>) for more details.

² Applied to the Business Core.

Open Electives (19 Credits)

Code	Title	Credits
Open Electives		
Select 19 credits ¹		19
Total Credits		19

¹ Includes UNV 101 First-Year Seminar: Introduction to University Community (1 credit) for first-year students and CE/AOK I (3 credits).

Course	Title	Credits
First Year		
Fall		
UNV 101	First-Year Seminar: Introduction to University Community	1
CIS 101	Introduction to Computing	3
ECO 105	Principles of Economics: Macroeconomics	3

ENG 110 or ENG 120	Composition or Critical Writing	3 or 4
MAT 104	Finite Mathematics	3
Area of Knowledge (AOK)		3
Credits		16-17
Spring		
BUS 101	Contemporary Business Practice	3
ECO 106	Principles of Economics: Microeconomics	3
MAT 117	Elementary Statistics	4
ENG 120	Critical Writing (or Area of Knowledge (AOK))	4
Learning Community (LC) Required*		
MGT 150	Managerial and Organizational Concepts	3
Credits		17
Second Year		
Fall		
ACC 203	Financial Accounting	4
COM 200	Public Speaking	3
MAT 131 or MAT 111	Calculus I or Elementary Calculus I	3 or 4
MAR 201	Principles of Marketing	3
Second Language or Area of Knowledge (AOK)		3
Credits		16-17
Spring		
MGT 226	Business Analytics	3
ACC 204	Managerial Accounting	4
CIS 143	Introduction to SQL for Business	3
FIN 260	Financial Management	3
Second Language or Area of Knowledge (AOK)		3
Credits		16
Third Year		
Fall		
Area of Knowledge (AOK) and/or Writing Enhanced (WE)		3
ENG 201	Writing in the Disciplines	3
MGT 251	Introduction to Programming for Data Science	3
Open Elective		3
Business Analytics Group I		3
Credits		15
Spring		
Foundation Science Course with Lab		3
MGT 353	Predictive Analytics	3
MGT 388	Machine Learning for Business	3
Area of Knowledge (AOK) and/or Writing Enhanced (WE)		3
Business Analytics Group II		3
Credits		15
Fourth Year		
Fall		
LAW 150	Business Law I	3
Business Analytics Elective Group I		3
Area of Knowledge (AOK)		3
Open Elective or AOK I		3
Open Elective		3
Credits		15

Spring

MGT 490	Business Strategy	3
Business Analytics Group II		3
International Course in Business		3
Area of Knowledge (AOK)		3
Open Elective		3
Open Elective		3
Credits		18
Total Credits		128-130