

MS IN BUSINESS ANALYTICS COURSE LIST 2023-24

0. PRE-SESSION			Prerequisites	Mandatory credits	Elective credits	Home program	Term part
ECBS5154	Mathematics and Informatics Pre-session for Business Analytics (remedial course)	Kiss, Oliver		0 (3)		BA	Pre
1. FALL 2022-23							
ECBS5075	Maximizing Your Future (remedial course)	Szarvas, Krisztina			0 (2)	F	F1
ECBS5208	Coding 1: Data Management and Analysis with Python	Wohak, Ulrich	Pre-session	2		BA	F1 F2
ECBS5140	Data Analysis 1: Exploration - Business Analytics track	Bekes, Gabor	Pre-session	1		BA	F1
ECBS5146	Data Engineering 1: SQL and Different Shapes of Data	Sallo, Laszlo	Pre-session	2		BA	F1
ECBS5188	Use Case Seminars 1.	Toth, Zoltan	Pre-session, DA1	1		BA	F1
ECBS5209	Data Visualization 1: Introduction to Data Visualization	Arato, Bence	Pre-session	1		BA	F1
ECBS5142	Data Analysis 2: Finding Patterns with Regressions - Business Analytics track	Kugler, Alice	Pre-session, DA1	2		BA	F2
ECBS5147	Data Engineering 2: Cloud Computing	Toth, Zoltan	DA1, DE1	2		BA	F2
ECBS5251	Data Visualization 2: Charting in Python	Arato, Bence	DV1	1		BA	F2
ECBS5306	Coding 2: Web scraping with Python	Orsós, Mihály	Pre-session, DA1		1	BA	F2
ECBS5163	Coding Practice with Python (remedial course)	Orsós, Mihály	Pre-session		0 (3)	BA	F1 F2 W1
2. WINTER 2022-23							
ECBS5171	Data Analysis 3: Prediction and Introduction to Machine Learning	Reguly, Agoston / Duronelly, Peter	Coding 1, DA1, DA2	3		BA	W1
ECBS5400	Discovering Discrimination with Data	Koren, Miklos	DA2	1		BA	W1
ECBS5210	Data Visualization 3: Practical Data Visualization with R	Daroczi, Gergely	DA2		1	BA	W1
ECBS5155	Coding 3: Introduction to R	Daroczi, Gergely	Coding 1		1	BA	W1
ECBS5207	Agile Project Management and Scrum	Sallo, Laszlo	Pre-session		1	BA	W1
DNDS6013	Scientific Python*	Posfai, Marton	Coding 1, DA1, DA2		2	DNDS	W1
ECBS5211	Data Engineering 3: Batch Jobs and APIs	Daroczi, Gergely	DA2, DV2		1	BA	W2
ECBS5233	Data Science 2: Machine Learning Tools	Divenyi, Janos	DA1, DA2, DA3, DS1		2	BA	W2
ECBS5021	Banking IT and Fintech: Bank to the Future*	Szalay, Szabolcs	Pre-session		2	F	W2
ECBS5219	Python Programming, Visualization and Text Analysis*	Muco, Arieda/Attila Toth	Pre-session		2	BA	W2
ECBS5175	Data Science 1: Machine Learning Concepts	Lieli, Robert, Divenyi	DA1, DA2, DA3		1	BA	W2
ECBS5283	Time Series Forecasting	Langen, Henrika	DA1, DA2, DA3, DS1		1	BA	W2
ECBS5215	Fintech in Depth*	Lee, Tomy	None		2	F	W2
ECBS5349	Entrepreneurship and Innovation*	Kozma, Andrea	Pre-session		2	F	W2
3. SPRING 2022-23							
ECBS5228	Designing Analytics Projects (Capstone Project Development Seminar)	de la Rubia, Eduardo	DA1, DA2, DA3, DS1	1		BA	S
ECBS5334	Data Engineering 4: Big Data Computing with Apache Spark	Toth, Zoltan	DE2, Python		1	BA	S
ECBS5212	Data Visualization 4: Building Dashboards	Daroczi, Gergely/ Orsos, Mihaly	DV2, DE3		1	BA	S
ECBS5204	Use Case Seminars 2.	Daroczi, Gergely	DE2, DA3		1	BA	S
ECBS5200	Data Science 3: Deep Learning	de la Rubia, Eduardo	DA1, DA2, DA3, DS1		1	BA	S
ECBS5194	Capstone Project Writing (Business Analytics)	Toth, Zoltan		2		BA	S
ECBS9105	Capstone Project	Toth, Zoltan		2		BA	S

Home program: BA: MS in Business Analytics; F: MS in Finance; DNDS: Dept. of Network and Data Science

Prerequisites: Abbreviations are used; for example DA1 - Data Analysis 1; DS1 - Data Science 1; etc.

Term Part: indicates if course takes place in earlier or later part of the semester. F1 means Fall 1 - early part of fall term; W2 means Winter 2 - later part of winter term

All mandatory courses with BA as home program are scheduled on Mondays and Wednesdays;

* -Limited availability

Course list remains subject to change