

**This version: 2021-07-05**

**MS IN BUSINESS ANALYTICS COURSE LIST 2021-22**

0. PRE-SESSION			Prerequisites	Mandatory credits	Elective credits	Home program
ECBS5154	Mathematics and Informatics Pre-session for Business Analytics	Kiss, Oliver		0		BA
ECBS5075	Maximizing Your Future	Kaposvari, Anna/ Szilagyi G., Andrea			0	F
<b>1. FALL 2021-22</b>						
ECBS5208	Coding 1: Data Management and Analysis with R	Reguly, Agoston	Pre-session	2		BA
ECBS5140	Data Analysis 1: Exploration - Business Analytics track	Bekes, Gabor	Pre-session	1		BA
ECBS5142	Data Analysis 2: Finding Patterns with Regressions - Business Analytics track	Bekes, Gabor	DA1	2		BA
ECBS5146	Data Engineering 1: SQL and Different Shapes of Data	Sallo, Laszlo	Pre-session	2		BA
ECBS5147	Data Engineering 2: Big Data and Cloud Computing	Toth, Zoltan	DA1, DE1	2		BA
ECBS5209	Data Visualization 1: Introduction to Data Visualization with Tableau	Arato, Bence	Pre-session	1		BA
ECBS5188	Use Case Seminars 1.	Daroczi, Gergely	Pre-session, DA1	1		BA
ECBS5306	Coding 2: Web scraping with R	Orsós, Mihály	Pre-session, DA1		1	BA
ECBS5163	Coding Practice with R	Orsós, Mihály	Pre-session		0	BA
ECBS5091	Ethics of Big Data	Margaritidis, Chrys	See syllabus		2	BA
<b>2. WINTER 2021-22</b>						
ECBS5171	Data Analysis 3: Prediction and Introduction to Machine Learning	Bekes, Gabor / Pal, Jenő	Coding 1, DA1, DA2	3		BA
ECBS5175	Data Science 1: Machine Learning Concepts	Liel, Robert	DA1, DA2	1		BA
ECBS5210	Data Visualization 2: Practical Data Visualization with R	Daroczi, Gergely	DA2	1		BA
ECBS5174	Coding 3: Data Management and Analysis with Python	Somos, Eszter	Coding 1, DA1, DA2		2	BA
ECBS5211	Data Engineering 3: Using R in Production	Daroczi, Gergely	DA2, DV2		1	BA
ECBS5233	Data Science 2: Machine Learning Tools	Papp, Zoltan	DA1, DA2, DA3, DS1		2	BA
ECBS5021	Banking IT and Fintech: Bank to the Future*	Szalay, Szabolcs	Pre-session		2	F
ECBS5245	Data Analysis 4: Casual Analysis (Vienna)*	Bekes, Gabor	Coding 1, DA1, DA2		2	EconPol
ECBS5219	Python Programming, Visualization and Text Analysis (Vienna)	Muco, Ariada	TBC		2	BA
ECBS5215	Fintech in Depth*	Lee, Tomy	None		2	F
ECBS5207	Agile Project Management and Scrum	Sallo, Laszlo	See syllabus		1	BA
<b>3. SPRING 2021-22</b>						
ECBS5177	Data Science 3: Unstructured Text Analysis	de la Rubia, Eduardo	DA1, DA2, DA3, DS1	1		BA
ECBS5228	Designing Analytics Projects (Capstone Project Development Seminar)	de la Rubia, Eduardo	DA1, DA2, DA3, DS1	1		BA
ECBS5334	Data Engineering 4: Building a Data Platform in the Cloud (Vienna)	Toth, Zoltan	DA1, DA2, DE3, Python		1	
ECBS5251	Data Visualization 3: Introduction to Data Visualization with Python	Arato, Bence	TBC		1	BA
ECBS5212	Data Visualization 4: Data Visualization in Production with Shiny	Daroczi, Gergely/ Orsós, Mihály	DV2, DE3		1	BA
ECBS5155	Mastering R Skills	Daroczi, Gergely	DE5		1	BA
ECBS5203	Mastering the Process of Data Science	Windhager-Pokol, Eszter	DA1, DA2, DA3, DS1, Python		1	BA
ECBS5204	Use Case Seminars 2. (Vienna)	Toth, Zoltan	DE3		1	BA
ECBS5093	Financial Trading Design and Technology*	Meszaros, Ferenc	See syllabus		2	F
ECBS5194	Capstone Project Writing (Business Analytics)	Bogel, Gyorgy		3		BA
	Capstone Project Seminar for Business Analytics	Kugler, Alice		1		BA
ECBS9105	Capstone Project	Bogel, Gyorgy		4		BA

**Home program:** BA: MS in Business Analytics; F: MS in Finance; EconPol: MA in Economic Policy in Global Markets

All mandatory courses with BA as home program are scheduled on Mondays and Wednesdays; \* - Limited availability; (Vienna) - Course to take place in Vienna

**Course list remains subject to change**