

Courses in English - Summer semester 2025 - Mathematics and Data Science

Please note: This table lists all courses available in English. A degree program consists in different modules which are needed for a successful graduation. Within a module different courses about several topics are offered. In some cases courses do not have the same title as the module. We recommend you to inform you beforehand which modules and courses belong together. You earn your ECTS-credits by finishing the module – not the course. You can get more information (also regarding ECTS) by clicking on the module number.

Module number	Module title	Course Number	Course title	Course type	Study level	ECTS per module
06-021- DS11-H-0616	Theoretical and Empirical Modelling	06-021-DS11-S-SE-0616.20251.001	Theoretical and Empirical Modelling	seminar (on-campus)	Bachelor	5
06-021- DS13-H-0117	Research Agenda Management	06-021-DS13-S-SE-0117.20251.001	Research Agenda Management	seminar (on-campus)	Bachelor	5
06-021- DS16-H-0518	Bayesian Regression Models: Theory and Applications in Marketing (and other Disciplines)	06-021-DS16-S-SE-0518.20251.001	Bayesian Regression Models: Theory and Applications in Marketing (and other Disciplines)	seminar (on-campus)	Bachelor	5
82-105- DS06-H-0822	Foundations of Machine Learning	82-105-DS06-S-UE-0822.20251.001	Foundations of Machine Learning	practice (on-campus)	Bachelor	10
		82-105-DS06-S-VL-0822.20251.001	Foundations of Machine Learning	lecture (on-campus)	Bachelor	
82-105- DS07-H-0822	Hands-on Machine Learning and Data Science	82-105-DS07-S-UE-0822.20251.001	Hands-on Machine Learning and Data Science	practice (on-campus)	Bachelor	10
		82-105-DS07-S-VL-0822.20251.001	Hands-on Machine Learning and Data Science	lecture (on-campus)	Bachelor	
82-105- DS10-H-0822	Analysis 2 for Data Science	82-105-DS10-S-UE-0822.20251.001	Analysis 2 for Data Science - Group 1 or	practice (on-campus)	Bachelor	5
		82-105-DS10-S-UE-0822.20251.002	Analysis 2 for Data Science - Group 2	practice (on-campus)	Bachelor	
		82-105-DS10-S-UE-0822.20251.003	Analysis 2 for Data Science - Tutorium	tutorial (on-campus)	Bachelor	
		82-105-DS10-S-VL-0822.20251.001	Analysis 2 for Data Science	lecture (on-campus)	Bachelor	
82-105- DS23-H-0922	Models of Weather and Climate	82-105-DS23-S-UE-0922.20251.001	Models of Weather and Climate	practice (on-campus)	Bachelor	5
		82-105-DS23-S-VL-0922.20251.001	Models of Weather and Climate	lecture (on-campus)	Bachelor	
82-105- DS24-H-0922	Introduction to Data Assimilation	82-105-DS24-S-UE-0922.20251.001	Introduction to Data Assimilation	practice (on-campus)	Bachelor	5
		82-105-DS24-S-VL-0922.20251.001	Introduction to Data Assimilation	lecture (on-campus)	Bachelor	
82-105-L- MAT25-H- 0512, 82-105- MAT20-H- 0512	Probability Theory (for prospective teachers); Probability Theory	82-105-MAT20-S-UE-0512.20251.001	Probability Theory for Data Science	practice (on-campus)	Bachelor	5
		82-105-MAT20-S-VL-0512.20251.001	Probability Theory for Data Science	lecture (on-campus)	Bachelor	
82-105- MAT25-H- 0512	Linear Algebra 2 and Analytic Geometry	82-105-MAT25-S-UE-0512.20251.001	Linear Algebra 2 for DS Ex	practice (on-campus)	Bachelor	10
		82-105-MAT25-S-UE-0512.20251.003	Linear Algebra 2 for DS (Tutorial)	tutorial (on-campus)	Bachelor	
		82-105-MAT25-S-VL-0512.20251.001	Linear Algebra 2 for DS	lecture (on-campus)	Bachelor	