



**DATA SCIENCE MSc Program (without Thesis)**

<b>REMEDIAL COURSES</b>				
<b>Dept.</b>	<b>Code</b>	<b>Course Name</b>	<b>CR.</b>	<b>ECTS</b>
MATH	131	Calculus I	NC	
MATH	132	Calculus II	NC	
MATH	133	Elementary Mathematics	NC	
MATH	134	Advanced Mathematics	NC	
MATH	221	Linear Algebra	NC	
MATH	281	Probability	NC	
CSE	211	Data Structures	NC	
CSE	348	Database Management Systems	NC	
ES	112	Algorithms and Computer Programming	NC	
STAT	410	Statistics	NC	
<b>PROGRAM COURSES</b>				
<b>Dept.</b>	<b>Code</b>	<b>Course Name</b>	<b>CR.</b>	<b>ECTS</b>
DATS	501	Fundamentals of Data Science	3	10
DATS	511	Applied Statistics and Data Analysis	3	10
CSE	585	Machine Learning	3	10
		Free Elective I	3	10
		Free Elective II	3	10
		Free Elective III	3	10
		Free Elective IV	3	10
		Free Elective V	3	10
		Free Elective VI	3	10
		Free Elective VII	3	10
DATS	599	Term Project	NC	10
		<b>TOTAL</b>	<b>30</b>	<b>110</b>
<b>EXTRA/NON-DEGREE COURSES</b>				
<b>Dept.</b>	<b>Code</b>	<b>Course Name</b>	<b>CR.</b>	<b>ECTS</b>
		Extra/Non-degree	NC	

<b>Course Group</b>	<b>Description</b>
Free Elective I-VII	Unrestricted, by approval of advisor and DATS department.
Extra/Non-degree	Optional non-credit (NC) courses that are not part of the program.
Remedial Courses	Undergraduate level courses offered by department.