



## Master of Science in Computer Science and Data Analytics

Curriculum *(subject to change)*

### YEAR 1

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#### Semester 1 in Baku (Fall)

Course Name	Instruction
Advanced Software Paradigms	ADA
Computer Systems Architecture	ADA
Design and Analysis of Algorithms	ADA

#### Semester 2 in Baku (Spring)

Course Name	Instruction
Introduction to Big Data and Analytics	ADA
Two of the Technical Elective courses below:	
<ul style="list-style-type: none"><li>Artificial Intelligence</li><li>Database Management Systems</li><li>Information Retrieval Systems</li></ul>	GWU/online GWU/online GWU/online

#### Semester 3 in Washington, DC (Summer)

Course Name	Instruction
Technical Elective (Special Topic)	GWU

### YEAR 2

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#### Semester 4 in Washington, DC (Fall)

Course Name	Instruction
Master's Thesis I	ADA/online
Advanced Topic	GWU
Two of the Technical Elective courses below:	
<ul style="list-style-type: none"><li>Data Mining</li><li>Distributed and Cluster Computing</li><li>Machine Learning</li></ul>	GWU GWU GWU

#### Semester 5 in Baku (Spring)

Course Name	Instruction
Master's Thesis II	ADA
Applied Data Analytics	ADA
One of the Technical Elective courses below:	
<ul style="list-style-type: none"><li>Natural Language Understanding</li><li>Introduction to Computer Vision</li></ul>	ADA ADA