

# Master of Science Program in Mathematics

## Research Focus

- Analysis Group
- Algebra Group
- Applied Mathematics Groups

## Structure of the Program

### 1. Credit Requirements \*

Requirements	Option 1.2
Coursework	24
- Core Courses	9
- Electives	15
Required Non-credit Courses	2
Thesis	12
<b>Total</b>	<b>36</b>

\* Minimum credits required

### 2. Core Courses

Requirements	Option 1.2	
	Course No.	Cr.
Functional Analysis	252515	3
Linear Algebra and Matrix Theory	252523	3
Topology	252561	3
<b>Total</b>	<b>3</b>	<b>9</b>

### 3. Electives

Requirements	Option 1.2	
	Course No.	Cr.
Measure Theory	252513	3
Complex Analysis	252514	3
Set-Valued Analysis	252516	3
Fixed Point Theory and Applications	252517	3
Distribution Theory	252518	3
Equilibrium and Optimization Theory	252519	3
Matrix Analysis	252524	3
Advanced Abstract Algebra 1	252525	3
Algebraic Semigroup Theory	252526	3
Ring and Module Theory 1	252527	3
Ring and Module Theory 2	252528	3
Advanced Abstract Algebra 2	252529	3
Graph Theory and Applications	252534	3
Formal Concept Analysis	252535	3
Fuzzy Theory and Applications	252541	3
Computational Mathematics	252552	3
Design and Analysis of Algorithms	252553	3
Methods of Applied Mathematics	252572	3
Advanced Ordinary Differential Equations	252574	3
Partial Differential Equations	252575	3
Mathematical Modeling	252576	3
Applied Linear Algebra	252577	3
Calculus of Variation	252578	3
Numerical Analysis	252579	3
Special Topics in Algebra	252582	3
Special Topics in Computational Mathematics	252585	3
Special Topics in Applied Mathematics	252586	3
<b>Total</b>	<b>≥5</b>	<b>≥15</b>

#### 4. Required Non-credit Courses

Requirements	Option 1.2	
	Course No.	Cr.
Seminar 1	252580	1
Seminar 2	252581	1
<b>Total</b>	<b>2</b>	<b>2</b>

#### 5. Thesis Credit Requirements

Requirements	Option 1.2	
	Course No.	Cr.
Thesis 1, Option 1.2	252590	3
Thesis 2, Option 1.2	252591	3
Thesis 3, Option 1.2	252592	6
<b>Total</b>	<b>3</b>	<b>12</b>