

## M.S. – Applied Mathematics: Thesis and Non-thesis Options

- This is a new option in the current masters program.
- A Thesis Option accommodates a 6 hour thesis requirement by reducing the Designated Elective requirement from 15 hours to 12 9 hours.

	<b>Non-Thesis Option (New)</b>	<b>Thesis Option (New)</b>
<b>Core</b>	Complete the following five courses:  MATH 6352 Analysis I MATH 6360 Ordinary Differential Equations MATH 6387 Modeling <i>MATH 63xx Linear Algebra (new course)</i> <i>MATH 63xx Applied Analysis (new course)</i>	Complete the following five courses:  MATH 6352 Analysis I MATH 6360 Ordinary Differential Equations MATH 6387 Modeling <i>MATH 63xx Linear Algebra (new course)</i> <i>MATH 63xx Applied Analysis (new course)</i>
<b>Designated Electives</b>	Complete <b>five</b> courses selected from the following:  MATH 6361 Partial Differential Equations MATH 6362 Fourier Analysis MATH 6388 Discrete Mathematics <i>MATH 63xx Numerical Analysis (new course)</i> <i>MATH 63xx Numerical Methods for PDEs (new course)</i> <i>MATH 63xx Cryptology &amp; Codes (new course)</i>	Complete <b>three</b> courses selected from the following:  MATH 6361 Partial Differential Equations MATH 6362 Fourier Analysis MATH 6388 Discrete Mathematics <i>MATH 63xx Numerical Analysis (new course)</i> <i>MATH 63xx Numerical Methods for PDEs (new course)</i> <i>MATH 63xx Cryptology &amp; Codes (new course)</i>
<b>Free Electives</b>	Select an additional 6 hours of approved electives.	Select an additional 6 hours of approved electives.
<b>Thesis</b>		<i>MATH 7300 Thesis I (new course)</i> <i>MATH 7301 Thesis II (new course)</i>