



## Mathematics Degree Requirements Checklist Fall 2015

### Core Courses for Mathematics BA, BS, and Applied BS Degrees

<input type="checkbox"/> MTH-141 Introductory Calculus with Analytic Geometry .....	4 credits
<input type="checkbox"/> MTH-142 Intermediate Calculus with Analytic Geometry .....	4 credits
<input type="checkbox"/> MTH-215 Introduction to Linear Algebra .....	3 credits
<input type="checkbox"/> MTH-243 Calculus for Functions of Several Variables .....	3 credits
<b>Total Core Courses</b> .....	<b>14 credits</b>

### Mathematics BA Degree

*32 MTH Credits – Total program credits 120*

Core Courses ..... 14 credits  
*plus 18 more credits*

Required Courses:

<input type="checkbox"/> MTH-307 Introduction to Math Rigor .....	3 credits
<input type="checkbox"/> MTH-316 Algebra .....	3 credits

Four more MTH courses which may not include:  
MTH-101, -105, -106, -107, -108, -109, -110, -111, -208, or -362.

<input type="checkbox"/> MTH-___ .....	3 credits
<input type="checkbox"/> MTH-___ .....	3 credits
<input type="checkbox"/> MTH-___ .....	3 credits
<input type="checkbox"/> MTH-4__ (400 Level Course) .....	3 credits

**Total** ..... **32 credits**

### Mathematics BS General Degree

*43 MTH credits- Total program credits 120.*

Core Courses ..... 14 credits  
*plus 29 more credits*

Required Courses:

<input type="checkbox"/> MTH-307 Introduction to Math Rigor .....	3 credits
<input type="checkbox"/> MTH-316 Algebra .....	3 credits
<input type="checkbox"/> MTH-435 Introduction to Mathematical Analysis .....	4 credits
<input type="checkbox"/> MTH-436 Introduction to Mathematical Analysis .....	4 credits
<input type="checkbox"/> MTH-462 Functions of a Complex Variable .....	3 credits

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## Mathematics BS General Degree (continued)

Four more MTH courses which may not include:

MTH-101, -105, -106, -107, -108, -109, -110, -111, -208, -362, or -420.

Required Courses:

<input type="checkbox"/> MTH-___	3 credits
<input type="checkbox"/> MTH-___	3 credits
<input type="checkbox"/> MTH-___	3 credits
<input type="checkbox"/> MTH-___	3 credits
<b>Total</b>	<b>43 credits</b>

## Mathematics BS - Applied Math Option

32 MTH credits plus 4 more non-MTH courses - Total program credits 120.

Core Courses ..... 14 credits  
plus at least 18 MTH credits:

One of the following two sequences:

<input type="checkbox"/> MTH 435 Introduction to Mathematical Analysis I	4 credits
AND	
<input type="checkbox"/> MTH 436 Introduction to Mathematical Analysis II	4 credits
OR	
<input type="checkbox"/> MTH 437 Advanced Calculus and Application I	3 credits
AND	
<input type="checkbox"/> MTH 438 Advanced Calculus and Application I	3 credits

Four more MTH courses which may not include:

MTH-101, -105, -106, -107, -108, -109, -110, -111, -208, -362, or -420.

<input type="checkbox"/> MTH-___	3 credits
<input type="checkbox"/> MTH-___	3 credits
<input type="checkbox"/> MTH-___	3 credits
<input type="checkbox"/> MTH-4 __ (400 Level Course)	3 credits
<input type="checkbox"/> Choose 1 course from: CSC-106, CSC-200, -201, -211, -212, PHY-410, or CHE-272	3 credits
<input type="checkbox"/> Choose 3 courses* from: <b>BUS-320, -321, -335, -337; BME-207; CHE-272, -313, -314;</b> <b>CHM-431, -432; CSC-340, -350, -406, -418, -440, -445; ECN-323, -324, -327, -328, -375;</b> <b>ELE-313, -314, -322, -438, -457; ISE-411, -412, -432, -433; MCE-341, -354, -366, -372, -411, -466;</b> <b>NRS-409, -410; OCE-301, PHY-306, -322, -331, -410, -420, -451, -452, -455; STA-307**, -308**, -409**, -411,</b> <b>-412.</b>	9 credits

\* Other courses may be used with prior permission of the chairperson.

\*\* Credit can only be earned in one of these Statistics courses.

**Total** ..... **44 credits**

## Minor in Mathematics Degree

20 MTH Credits – Total program credits 120

Core Courses ..... 14 credits

Plus

<input type="checkbox"/> Any two 3-credit courses* chosen from MTH-244, -307, -316, -322 or any 400 Level course	6 credits
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At least one of these 2 courses must be at the 400 Level.

\* Substitutions may be made with prior permission of the chairperson.

**Total** ..... **20 credits**