|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Course Number and Title* | *Credits* | *Completed* | *In Progress* | *Future* |
| Required Core Graduate Mathematics Course |  |  |  |  |
| MATH 515 Real and Linear Analysis | 3 |  |  |  |
| MATH 598 Graduate Seminar I: Introduction and Research | 1 |  |  |  |
| MATH 599 Graduate Seminar II: Professional Preparation | 1 |  |  |  |
| One of the following areas of emphasis **Applied Mathematics** MATH 537 Principles of Applied Mathematics **At least one of the following:** MATH 566 Numerical Methods II MATH 567 Numerical Methods for Differential Equations**Mathematics Education****At least two of the following:** MATHED 510 Mathematics CurriculumMATHED 523 Teaching & Learning Algebra & FunctionsMATHED 525 Teaching and Learning CalculusMATHED 526 Teaching and Learning Statistics**Pure Mathematics****At least two of the following:** MATH 506 Advanced AlgebraMATH 507 Advanced Number TheoryMATH 509 Symmetric Key Cryptography and**Cryptanalysis**MATH 512 Advanced TopologyMATH 522 Advanced Set Theory**Statistics**MATH 562 Probability and Statistics**At least one of the following:**MATH 572 Computational Statistics MATH 573 Time Series Analysis MATH 574 Linear Models | 6 |  |  |  |
| Culminating Activity **Additional graduate courses and a culminating activity chosen from one of the following possibilities:** **Comprehensive Examination** **Seven courses totaling at least 21 credits** MATH 690 Master’s Comprehensive Examination (1 cr) **Project** **Five courses totaling at least 15 credits** MATH 590 Practicum/Internship (3 cr) MATH 591 Project (3 cr) orMATHED 591 Project**Thesis** **Five courses totaling at least 15 credits** MATH 593 Thesis (6 cr)MATHED 593 Thesis (6 cr) | 21-22 |  |  |  |
| Total | 32-33 |  |  |  |