|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *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 Curriculum  MATHED 523 Teaching & Learning Algebra & Functions  MATHED 525 Teaching and Learning Calculus  MATHED 526 Teaching and Learning Statistics  **Pure Mathematics**  **At least two of the following:**  MATH 506 Advanced Algebra  MATH 507 Advanced Number Theory  MATH 509 Symmetric Key Cryptography and  **Cryptanalysis**  MATH 512 Advanced Topology  MATH 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) or  MATHED 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 |  |  |  |