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| --- | --- | --- | --- | --- |
| *Course Number and Title* | *Credits* | *Completed* | *In Progress* | *Future* |
| Required Core Graduate Mathematics Course MATH 515 Real and Linear Analysis | 3 |  |  |  |
| One of the following areas of emphasis Applied Mathematics MATH 537 Principles of Applied Mathematics (3 cr) At least one of the following: MATH 566 Numerical Methods II (3 cr) MATH 567 Numerical Methods for Differential Equations (3 cr) Pure Mathematics At least two of the following: MATH 506 Advanced Algebra (3 cr) MATH 507 Advanced Number Theory (3 cr) MATH 509 Symmetric Key Cryptology (3 cr) MATH 512 Advanced Topology (3 cr) MATH 522 Advanced Set Theory (3 cr) Statistics MATH 562 Probability and Statistics (3 cr) At least one of the following: MATH 572 Computational Statistics (3 cr) MATH 573 Time Series Analysis (3 cr) MATH 574 Linear Models (3 cr) | 6 |  |  |  |
| Additional graduate courses and a culminating activity chosen from one of the following possibilities: Comprehensive Examination Seven courses totaling at least 21 credits (21 cr) MATH 690 Master’s Comprehensive Examination (1 cr) Project Five courses totaling at least 15 credits (15 cr) MATH 590 Practicum/Internship (3 cr) MATH 591 Project (3 cr)Thesis Five courses totaling at least 15 credits (15 cr) MATH 593 Thesis (6 cr) | 21-22 |  |  |  |
| Total | 30-31 |  |  |  |