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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  At least one of the following:  MATH 566 Numerical Methods II  MATH 567 Numerical Methods for Differential Equations Pure Mathematics  At least two of the following:  MATH 506 Advanced Algebra  MATH 507 Advanced Number Theory  MATH 509 Symmetric Key Cryptology  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 |  |  |  |  |
| 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)  Thesis  Five courses totaling at least 15 credits  MATH 593 Thesis (6 cr) | 21-22 |  |  |  |
| Total | 30-31 |  |  |  |