



Graduate School
INDUSTRIAL MATHEMATICS CONCENTRATION

Verification of Completion

Page 1 of 3

Awarded in conjunction with the Master of Science in Mathematics degree

Name: _____

Campus ID #: _____

Program / Department completes

Required Courses (6 graduate credits)

Please check box to verify that the courses have been completed

- | | |
|-----------------------------------|--------------------------------|
| <input type="checkbox"/> Math 701 | Industrial Mathematics I, 3 cr |
| <input type="checkbox"/> Math 715 | Numerical Analysis, 3 cr |

Courses (12 graduate credits)

Please check box to verify that the courses have been completed

- | | |
|-----------------------------------|--|
| <input type="checkbox"/> Math 313 | Linear Programming and Optimization, 3 cr |
| <input type="checkbox"/> Math 314 | Mathematical Programming and Optimization, 3 cr |
| <input type="checkbox"/> Math 320 | Introduction to Differential Equations, 3 cr |
| <input type="checkbox"/> Math 321 | Vector Analysis, 3 cr |
| <input type="checkbox"/> Math 322 | Introduction to Partial Differential Equations, 3 cr |
| <input type="checkbox"/> Math 371 | Introduction to Stochastic Models in Finance, 3 cr |
| <input type="checkbox"/> Math 405 | Mathematical Models and Applications, 3 cr |
| <input type="checkbox"/> Math 413 | Introduction to Numerical Analysis, 3 cr |
| <input type="checkbox"/> Math 415 | Introduction to Scientific Computing, 3 cr |
| <input type="checkbox"/> Math 417 | Computational Linear Algebra, 3 cr |
| <input type="checkbox"/> Math 471 | Introduction to the Theory of Probability, 3 cr |
| <input type="checkbox"/> Math 520 | Non-Linear Differential Equation, 3 cr |
| <input type="checkbox"/> Math 521 | Advanced Calculus, 3 cr |
| <input type="checkbox"/> Math 522 | Advanced Calculus, 3 cr |
| <input type="checkbox"/> Math 525 | Introduction to the Theory of Differential Equations, 3 cr |
| <input type="checkbox"/> Math 535 | Linear Algebra, 3 cr |
| <input type="checkbox"/> Math 571 | Introduction to Probability Models, 3 cr |
| <input type="checkbox"/> Math 581 | Introduction to the Theory of Chaotic Dynamical Systems,
3 cr |
| <input type="checkbox"/> Math 601 | Advanced Engineering Mathematics I, 3 cr |
| <input type="checkbox"/> Math 602 | Advanced Engineering Mathematics II, 3 cr |

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Courses (12 graduate credits), continued

Please check box to verify that the courses have been completed

<input type="checkbox"/>	Math 621	Introduction to Analysis, 3 cr
<input type="checkbox"/>	Math 622	Introduction to Analysis, 3 cr
<input type="checkbox"/>	Math 623	Complex Analysis, 3 cr
<input type="checkbox"/>	Math 702	Industrial Mathematics II, 3 cr
<input type="checkbox"/>	Math 703	Boundary Value Problems, 3 cr
<input type="checkbox"/>	Math 705	Mathematical Fluid Dynamics, 3 cr
<input type="checkbox"/>	Math 709	Differential Geometry, 3 cr
<input type="checkbox"/>	Math 716	Ordinary Differential Equations, 3 cr
<input type="checkbox"/>	Math 719	Partial Differential Equations, 3 cr
<input type="checkbox"/>	Math 726	Introduction to Functional Analysis, 3 cr
<input type="checkbox"/>	Math 727	Calculus of Variations, 3 cr
<input type="checkbox"/>	Math 728	Integral Equations, 3 cr
<input type="checkbox"/>	Math 768	Applied Stochastic Processes, 3 cr
<input type="checkbox"/>	Math 790*	Master's Thesis, 1 - 3 cr
<input type="checkbox"/>	Math 792*	Industrial Internship, 1 - 3 cr
<input type="checkbox"/>	Math 793	Scientific Computational Laboratory, 1 - 2 cr
<input type="checkbox"/>	Math 801	Topics in Applied Mathematics, 3 cr
<input type="checkbox"/>	Math 813	Numerical Solution of Ordinary Differential Equations, 3 cr
<input type="checkbox"/>	Math 814	Numerical Solution of Partial Differential Equations, 3 cr
<input type="checkbox"/>	Math 815	Topics in Numerical Analysis, 3 cr
<input type="checkbox"/>	Math 816	Advanced Ordinary Differential Equations I, 3 cr
<input type="checkbox"/>	Math 817	Advanced Ordinary Differential Equations II, 3 cr
<input type="checkbox"/>	Math 819	Advanced Partial Differential Equations I, 3 cr
<input type="checkbox"/>	Math 820	Advanced Partial Differential Equations II, 3 cr
<input type="checkbox"/>	Math 827	Fourier Analysis, 3 cr
<input type="checkbox"/>	MthStat 361	Introduction to Mathematical Statistics I, 3 cr

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Courses (12 graduate credits), continued

Please check box to verify that the courses have been completed

- | | |
|--------------------------------------|--|
| <input type="checkbox"/> MthStat 362 | Introduction to Mathematical Statistics II, 3 cr |
| <input type="checkbox"/> MthStat 461 | Data Analysis and Graphing Using SAS I, 3 cr |
| <input type="checkbox"/> MthStat 462 | Data Analysis and Graphing Using SAS II, 3 cr |
| <input type="checkbox"/> MthStat 561 | Analysis of Variance, 3 cr |
| <input type="checkbox"/> MthStat 562 | Design of Experiments, 3 cr |
| <input type="checkbox"/> MthStat 563 | Regression Analysis, 3 cr |
| <input type="checkbox"/> MthStat 564 | Time Series Analysis, 3 cr |
| <input type="checkbox"/> MthStat 565 | Nonparametric Statistics, 3 cr |
| <input type="checkbox"/> MthStat 567 | Statistical Methods in Reliability, 3 cr |
| <input type="checkbox"/> MthStat 568 | Multivariate Statistical Analysis, 3 cr |
| <input type="checkbox"/> MthStat 569 | Advanced Biostatistics, 3 cr |
| <input type="checkbox"/> MthStat 761 | Mathematical Statistics, 3 cr |
| <input type="checkbox"/> MthStat 762 | Mathematical Statistics, 3 cr |
| <input type="checkbox"/> MthStat 861 | Decision Theory I, 3 cr |
| <input type="checkbox"/> MthStat 862 | Decision Theory II, 3 cr |
| <input type="checkbox"/> MthStat 863 | Hypothesis Testing, 3 cr |
| <input type="checkbox"/> MthStat 869 | Advanced Topics in Mathematical Statistics, 3 cr |

* A maximum of 6 credits in any combination of Math 790 or 792 may count toward the concentration.

Cumulative GPA in Concentration is 3.0 or above

YES

NO

Department Verification Signature

Date