



Peter F. Drucker and Masatoshi Ito Graduate School of Management
Financial Engineering Program

Math Verification Form

This form is designed to help us evaluate your application to the Financial Engineering program and to verify that you have satisfied the math prerequisites for admission. The prerequisites are:

- Calculus I
- Calculus II
- Calculus III
- Linear Algebra

We also accept equivalent courses. In order to ascertain whether you have fulfilled the requirements for admission, we ask that you fill out this form with the following information:

- Course Name (e.g., "MATH 151")
- Course Title (e.g., "Calculus I")
- Course Description – Please use the information from one of the following sources: course syllabus, course catalogue, or professor's course description
- Grade – If your university's grading system does not follow the United States method of grading (A, B, C, D, and F), please include a brief description of the grading system.
- Textbook Title, Author, and Chapters

Please answer all of the questions on this form to the best of your knowledge. Once you have completed this form, please upload it into the Supporting Documents section of the online application or return it by email to admissions@cgu.edu.

First Name:

Last Name:

Application Term:

Intended Degree:

Section I

Please list all **completed** math courses which meet the MSFE prerequisite requirements.

Calculus I

Course Name:

Course Title:

Course Description:

Term Completed:

Grade: Select Grade

Calculus II

Course Name:

Course Title:

Course Description:

Term Completed:

Grade: Select Grade

Calculus III

Course Name:

Course Title:

Course Description:

Term Completed:

Grade: Select Grade

Linear Algebra

Course Name:

Course Title:

Course Description:

Term Completed:

Grade: Select Grade

Section II:

After each prerequisite, please indicate which course, textbook, and chapter(s) satisfy that particular prerequisite.

30. Calculus I.

Single variable calculus. Differentiation and integration of algebraic and transcendental functions with applications to the social and physical sciences.

Textbook Title:

Textbook Author:

Textbook Chapters:

31. Calculus II.

A continuation of Mathematics 30. Techniques and applications of integration; introduction to differential equations; improper integrals and indeterminate forms; infinite series and power series representation of a function. Applications to problems from the social and physical sciences.

Textbook Title:

Textbook Author:

Textbook Chapters:

32. Calculus III.

Multivariable calculus and vector analysis with applications to physical and social sciences. Functions of several variables; polar coordinates and parametric representation of curves; partial differentiation, the method of Lagrange multipliers; multiple integration; calculus of vector functions.

Textbook Title:

Textbook Author:

Textbook Chapters:

90. Linear Algebra.

An introduction to the methods of linear algebra with applications to the physical and social sciences. Topics will include: Linear equations and matrices, determinants, vector spaces, linear transformations, inner product spaces and quadratic forms, eigenvalues and eigenvectors, and canonical forms.

Textbook Title:

Textbook Author:

Textbook Chapters:

Section III:

If your university does not follow the United States' grading system, please describe the grading system in use, and how it differs from the A, B, C, D, and F system:

Signature

Date