Northwestern | Kellogg

Kellogg Certificate Program for Undergraduates

Managerial Analytics & Financial Economics

Prerequisite & Corequisite Requirements 2025-26

Students pursuing either of the Kellogg Certificates must complete a series of prerequisite and corequisite requirements. The prerequisite requirements should be completed prior to starting the program. Students are encouraged to begin completing corequisite courses prior to starting the program, but will have one year from the start of the program to complete them.

Notes and Considerations:

- Certain prerequisites and corequisites listed below may require the completion of 2 courses to fulfill the requirement.
- Many program prerequisite and corequisite courses have prerequisites of their own. See Course Catalog for details.
- Some of the certificate courses require that specific program corequisite courses be completed prior to or concurrently with enrollment in the course. Students should take these course prerequisites and corequisites into consideration when course planning.
- If Northwestern has awarded test credit, that credit will count as completion of the course.
- If a student tests into a higher level course, completing the higher level course will fulfill the requirement.
- Students who earn a 3.0 average or above in their prerequisite courses are encouraged to apply.

Program Prerequisites

Applicants should complete the below prerequisite courses by the fall quarter immediately preceding the January application deadline to ensure that the prerequisite grades are reviewed during the application review process.
One of the prerequisite courses may be completed during winter quarter of the application year.

Prerequisite Requirement 1: Calculus

Complete one of the below options:

Option 1: Regular Math

☐ MATH 230-1 *and*

☐ MATH 230-2

Option 2: MENU

☐ MATH 290-2 *and*

☐ MATH 290-3

Option 3: MENU Accelerated

☐ MATH 291-2 *and*

☐ MATH 291-3

Option 4: ISP

☐ MATH 281-1 *and*

☐ MATH 281-2

Option 5: MMSS

☐ MATH 285-2 *and*

☐ MATH 285-3

Option 8: McCormick

☐ MATH 228-1 or ES_APPM 252-1 (Honors) *and*

☐ MATH 228-2 or ES_APPM 252-2 (Honors)

Options 9:

☐ MATH 230-1 *and*

☐ MATH 235-0

Option 10: Data Science

☐ MATH 230-1 *and*

☐ MATH 235-0 or STAT 228-0

Prerequisite Requirement 2: Microeconomics

☐ ***Complete <u>one</u> of the following courses:***

ECON 310-1* *or*
MMSS 211-1 (MMSS only)

*ECON 201, and ECON 202 are prerequisites for ECON 310-1

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Program Corequisites: Complete within one year of beginning the certificate

Corequisite Requirement 1: Probability

☐ ***Complete <u>one</u> of the following courses:***

MATH 314-0* *or*	STAT 320-1* *or*	IEMS 302-0 *or*	CHEM_ENG 312-0**
MATH 310-1* *or*	STAT 383-0 (ISP) *or*	ELEC_ENG 302-0 *or*	
MATH 311-1* *or*	MATH 385-0 (MMSS) *or*	BMD_ENG 220-0** *or*	

*MATH 226, MATH 235, or STAT 228 must be taken as a prerequisite or corequisite for these courses; see course catalog for more information.
**Students are not permitted to take BMD_ENG 220-0 or CHEM_ENG 312-0 in addition to IEMS 303-0 These courses will fulfill the probability and IEMS 303 requirement for CPU.

Corequisite Requirement 2: Econometrics/Statistics

Complete one of the below options:

<u>Option 1</u>
☐ ECON 281-0

<u>Option 2</u>
☐ ECON 381-1*
**Additional course prereqs apply*

<u>Option 3: MMSS</u>
☐ MATH 386-1

<u>Option 4</u>
☐ IEMS 303-0** *and*
☐ IEMS 304-0

<u>Option 5</u>
☐ STAT 320-2 *and*
☐ IEMS 304-0

<u>Option 6</u>
☐ STAT 320-2 *and*
☐ STAT 350-0

<u>Option 7</u>
☐ STAT 383-0 (ISP only) *and*
☐ STAT 350-0 *or* IEMS 304

<u>Option 8: Data Science</u>
☐ STAT 301-1 *and*
☐ STAT 301-2 *and*
☐ STAT 301-3
OR
☐ STAT 303-1 *and*
☐ STAT 303-2 *and*
☐ STAT 303-3

Kellogg Certificate Course Prerequisites

The chart below lists the CPU courses and applicable prerequisites for each course. Students should familiarize themselves with these prerequisites prior to applying to the program and plan their coursework accordingly.

MA Course	Certificate	Course Prerequisites & Corequisites
FE 310-0: Principles of Finance	FE & MA	**Must be familiar with linear regressions**. Students should complete ECON 281-1, MATH 386-1, IEMS 304-0, STAT 350-0, or equivalent prior to FE 310. Students who have not completed this prereq will be provided free online coursework prior to FE 310 (over spring break).
FE 312-0: Investments	FE	**Prerequisite**: FE 310 **Corequisite** (may be taken concurrently with FE 312): ECON 281-1, MATH 386-1, IEMS 304-0, STAT 350-0, or equivalent course
FE 314-0: Derivatives I	FE	**Prerequisite**: FE 310 **Corequisite** (may be taken concurrently with FE 314): Probability course – any of the "Corequisite Requirement 1: Probability" courses
FE 316-0: Topics – Real Estate	FE	**Prerequisite:** FE 310
MA 324-0: Operations & Supply Chain Strategy	MA	**Prerequisite:** FE 310
MA 326-0: Topics – Analytics for Strategy	MA	**Prerequisite:** FE 310