Northwestern | Kellogg

Kellogg Certificate Program for Undergraduates
Managerial Analytics & Financial Economics
Prerequisite & Corequisite Requirements 2026-2027

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 prerequisites by the fall quarter immediately preceding the January application deadline to ensure that the prerequisite grades are reviewed during the application review process.
One prerequisite course may be completed during winter quarter of the application year.

Prerequisite Requirement 1: Calculus

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

1. Regular Math: MATH 230-1 and MATH 230-2 or MATH 230-1 and MATH 235-0
2. MENU: MATH 290-2 and MATH 290-3
3. MENU Accelerated: MATH 291-2 and MATH 291-3
4. ISP: MATH 281-1 and MATH 281-2
5. MMSS: MATH 285-2 and MATH 285-3
6. McCormick: MATH 228-1 or ES_APPM 252-1 and MATH 228-2 or ES_APPM 252-2
7. Data Science: MATH 23-1 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

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*	STAT 320-1*	IEMS 202-0	GEN_ENG 231-2
MATH 310-1*	STAT 383-0 (ISP)	ELEC_ENG 302-0	CHEM_ENG 312-0**
MATH 311-1*	MATH 385-0 (MMSS)	EECS 302-0	

*MATH 226-0 is a prerequisite or corequisite for these courses; see the course catalog for more information.
**CHEM_ENG 312-0 fulfills the Probability requirement and the IEMS 303-0 requirement. Students who complete the course will still need to take IEMS 304-0.

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Corequisite Requirement 2: Econometrics/Statistics

Complete one of the below options:

Option 1

☐ ECON 381-1 (additional prereqs; refer to econ website)

Option 2: MMSS

☐ MATH 386-1

Option 3

☐ IEMS 303-0** *and*

☐ IEMS 304-0

Option 4

☐ STAT 320-2 *and*

☐ IEMS 304-0

Option 5

☐ STAT 320-2 *and*

☐ STAT 350-0

Option 6

☐ STAT 383-0 (ISP only) *and*

☐ STAT 350-0 *or* IEMS 304

Option 7: Data Science Major/Minor

☐ STAT 301-1 *and*

☐ STAT 301-2 *and*

☐ STAT 301-3

OR

☐ STAT 303-1 *and*

☐ STAT 303-2 *and*

☐ STAT 303-3

Only plan to use this option if you have been admitted to the minor

Kellogg Certificate Course Prerequisites

The chart below lists each of the MA courses and which courses, if any, are prerequisites for the course. Students should familiarize themselves with these prerequisites prior to applying to the program and ensure that they plan their coursework accordingly.

Course	Certificate	Course Prerequisites & Corequisites
FE 310-0: Principles of Finance	FE & MA	**Must be familiar with linear regressions**. Students should complete ECON 381-1, MATH 386-1, IEMS 304-0, STAT 350-0, or an equivalent course covering linear regressions prior to FE 310. Students who have not taken one of these courses will be provided with a free online course that they should complete prior to FE 310 (over spring break).
FE 312-0: Investments	FE	**Prerequisite**: FE 310 **Corequisite** (may be taken concurrently with FE 312): ECON 381-1, 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 – complete one of the courses listed in the table titled "Corequisite Requirement 1: Probability"
FE 316-0: Topics in Financial Economics – Real Estate	FE	**Prerequisite:** FE 314
MA 324-0: Operations & Supply Chain Strategy	MA	**Prerequisite:** FE 310
MA 326-0: Topics in Managerial Analytics - Analytics for Strategy	MA	**Prerequisite:** FE 310
MA 328-0: Competitive Strategy and Industrial Structure	MA	**Prerequisite:** FE 310 **AND** Econ 381-1, MATH 386-1, IEMS 304-0, STAT 350-0, or equivalent course
MA 322-0: Pricing	MA	**Prerequisite:** FE 310