Northwestern | Kellogg

Kellogg Certificate Program for Undergraduates Managerial Analytics & Financial Economics Prerequisite & Corequisite Requirements beginning 2022-23

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:

- Some of the program prerequisite and corequisite requirements listed below require the completion of two courses to
 fulfill the requirement.
- Many of the program prerequisite and corequisite courses have their own prerequisite courses. Some of these prerequisites are listed below. See the Course Catalog for a complete list.
- Some of the certificate courses require that specific program corequisite courses be completed prior to or concurrently with enrollment in the course. Students should be sure to review these course prerequisites and corequisites and take them into consideration during their 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 that course will fulfill the requirement.
- The middle 50% of students admitted to the MA and FE certificates in Spring 2020 had prerequisite GPAs between 3.23 and 3.93. 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	Option 4: ISP		
□ MATH 230-1 or MATH 230-0 and	□ MATH 281-1 and		
□ MATH 230-2 or MATH 234-0	□ MATH 281-2		
Option 2: MENU	Option 5: MMSS		
□ MATH 290-2 and	□ MATH 285-2 and		
□ MATH 290-3	□ MATH 285-3		
Option 3: MENU Accelerated	Option 6: McCormick		
□ MATH 291-2 and	□ MATH 228-1 or MATH 230-0 or ES_APPM 252-1 (Honors) and		
□ MATH 291-3	□ MATH 228-2 or MATH 234-0 or ES_APPM 252-2 (Honors)		

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

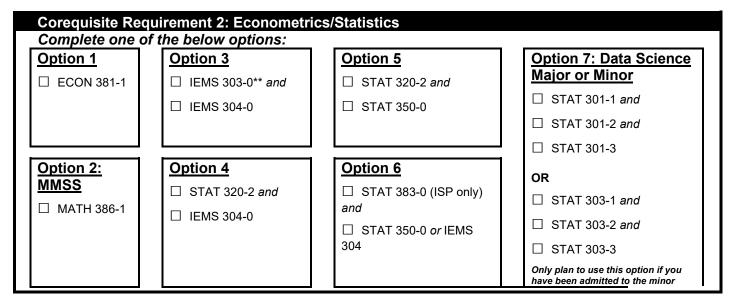
MATH 310-1* or

MATH 311-1* or

□ Complete one of the following courses: MATH 314-0* or STAT 320-1* or

STAT 320-1* or STAT 383-0 (ISP) or MATH 385-0 (MMSS) or IEMS 202-0 or ELEC_ENG 302-0 or EECS 302-0 or BMD_ENG 220-0** or CHEM_ENG 312-0**

*MATH 226-0 is a prerequisite or corequisite for these courses; see the 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. Only one of these options may satisfy its respective corequisite requirement.



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 381-1, 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 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 – 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
MA 328-0: Competitive Strategy and Industrial Structure	MA (not offered in 2020-21)	Prerequisite: FE 310 AND Econ 381-1, MATH 386-1, IEMS 304-0, STAT 350-0, or equivalent course