# Northwestern <br> Kellogg <br> <br> Prerequisite Checklist for Managerial Anayltics Certificate <br> <br> Prerequisite Checklist for Managerial Anayltics Certificate <br> Revised 9-9-16 

Students interested in applying for the Financial Economics Certificate must take prerequisite courses in the five (5) required subject areas listed in the chart below. As a rule, each requirement contains several course options. Each requirement is fulfilled when all of the courses listed in the chosen option are completed.

## Notes:

1. Students do not have to complete all of their prerequisite courses by the time they apply during winter quarter, but should have completed all of them by the end of the spring quarter. Those who are accepted into the program and are still taking prerequisite courses during the spring term must receive a " B " or better in those courses to enter the program in the fall.
2. Many CPU prerequisite courses have their own prerequisites, which are set by the departments offering them. Please check the Undergraduate Catalog or the appropriate department for specifics. Courses are not always offered during the same quarter or time every year.
3. Equal consideration is given to students who take non-honors courses.
4. Most pre-req courses are offered in both WCAS and McCormick, and students may take them in either or both schools.
5. Students are required to have a combined 3.0 average or better among all Certificate Program prerequisite courses to be considered for admission.

| equirement 1: Calculus and Linea | ebra |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Option 1: Regular Math | Option 5: MMSS students only |  | Option 7: For McCormick students |  |
| MATH 230-0 and $\quad \square$ | MATH 285-1 and | $\square$ | Honors Calc. ES APPM 252-1 and | $\square$ |
| MATH 234-0 and $\quad \square$ | MATH 285-2 and | $\square$ | Honors Calc. ES APPM 252-2 and either | $\square$ |
| MATH 240-0 $\quad \square$ | MATH 285-3 | $\square$ | a. Non Honors Engineering Analysis |  |
|  |  |  | GEN_ENG 205-1 and | $\square$ |
| Option 2: MENU 290 | Option 6: For McCormick students |  | GEN_ENG 205-2 | $\square$ |
| MATH 290-1 and $\square$ | MATH 230-0 and | $\square$ | or |  |
| MATH 290-2 and $\quad \square$ | MATH 234-0 and either | $\square$ | b. Honors Engineering Analysis |  |
| MATH 290-3 $\square$ | a. Non Honors Engineering Analysis |  | GEN_ENG 206-1 and | $\square$ |
|  | GEN_ENG 205-1 and | $\square$ | GEN_ENG 206-2 | $\square$ |
| Option 3: MENU 291 Accelerated | or |  |  |  |
| MATH 291-1 and $\quad \square$ | b. Honors Engineering Analysis |  |  |  |
| MATH 291-2 and $\quad \square$ | GEN_ENG 206-1 and | $\square$ |  |  |
| MATH 291-3 $\square$ |  |  |  |  |
| Option 4: ISP students only |  |  |  |  |
| MATH 281-1 and $\quad \square$ |  |  |  |  |
| MATH281-2 and $\square$ |  |  |  |  |
| MATH 281-3 $\quad \square$ |  |  |  |  |

## Requirement 2: Probability

| Option 1: |  | Option 5: ISP students only |  | Option 9: |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MATH 314-0 | $\square$ | STAT 383-0 | $\square$ | BMD_ENG 220-0 | $\square$ |
| Option 2: |  | Option 6: MMSS students only |  | Option 10: |  |
| MATH 310-1 | $\square$ | MATH 385-0 | $\square$ | CHEM_ENG 312-0 | $\square$ |
| Option 3: |  | Option 7: |  |  |  |
| MATH 311-1 | $\square$ | IEMS 202-0 | $\square$ |  |  |
| Option 4: | $\square$ | Option 8: |  |  |  |
| STAT 320-1 | $\square$ | EECS 302-0 | $\square$ |  |  |


| Requirement 3: Econometrics/Statistics |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Option 1: | Option 3: <br> IEMS 303-0 and <br> IEMS 304-0** |  | Option 5: <br> STAT $320-2$ and STAT 350-0** |  |
| ECON 381-1* $\quad \square$ |  |  | $\square$ |
|  |  |  | $\square$ |
| Option 2: MMSS students only | Option 4: <br> STAT 320-2 and IEMS 304-0** |  |  | Option 6: <br> STAT 383 and <br> STAT 350-0 or IEMS 304** |  |
| MATH 386-1 $\quad \square$ |  | $\square$ |  |  | $\square$ |
|  |  | $\square$ | $\square$ |  |
| * Check the Economics Department website FAQ section for information about the ne <br> ** I EMS 304-0 or STAT 350-0 may be taken concurrently with the certificate courses. <br> *** This option is for ISP students only |  |  |  |  |
|  |  |  |  |  |


| Requirement 4: Microeconomics (2 |  |
| :---: | :---: |
| Option 1: |  |
| ECON 310-1 | $\square$ |
| Option 2: MMSS students only |  |
| MMSS 211-1 | $\square$ |



