



Students matriculate in the year of 2022 and before, please follow the below requirements.

1. Coursework (Students entering with Bachelor's degree only)

To complete their coursework requirement, Doctoral students entering the doctoral program with a Bachelor's degree must take a number of courses, while maintaining a minimum GPA. Specifically, students must take the following course.

1. At least thirty nine approved credit hours of engineering, math, and science at the 4xx level or higher,
2. A total of three credit hours of technical communication, VG50X – Technical Communication. Each graduated student must complete all three courses (VG501, VG502, VG503) with a composite GPA of 3.0 or above in order to meet the graduation requirement.
3. A total of three credit hours of politics for domestic students, or a total of six credit hours of Chinese Language and Chinese Culture for international students.
4. The JI Grade Point Average for these courses must be at least 3.0.

The thirty-nine approved credit hours of engineering, math, and science are subjected to the following restrictions.

1. At least six credit hours of mathematics must be taken at the 5xx level or higher.
2. At least fifteen credit hours within the student's major must be selected at the 5xx level or higher.
3. A maximum of twelve credit hours may be selected from classes offered outside of the JI. These credit hours must be approved by the faculty adviser and the graduate committee. The Petition to Take a Non-JI Course form can be downloaded from the [Graduate Student Forms](#).
4. The total number of 4xx level courses cannot exceed nine credit hours.
5. Students must take at least six credit hours outside their discipline group to ensure the breadth of their study program.
6. The combined total of 4xx level credit hours and credit hours taken outside of the JI cannot exceed fifteen. If the Graduate Committee approves a non-JI math class to satisfy the math requirement, those non-JI math credits do not count toward this total of fifteen credit hours.

2. Coursework (Students entering with Master's degree)

To complete their coursework requirement, Doctoral students entering the doctoral program with a Master's degree must take a number of courses, while maintaining a minimum GPA. Specifically, students must take the following course.



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1. At least eighteen approved credit hours of engineering, math, and science at the 4xx level or higher, and
2. A total of three credit hours of technical communication, VG50X – Technical Communication. Each graduated student must complete all three courses (VG501, VG502, and VG503) with a composite GPA of 3.0 or above in order to meet the graduation requirement.
3. A total of two credit hours of politics for domestic students, or a total of four credit hours of Chinese Language and Chinese Culture for international students.
4. The JI Grade Point Average for these courses must be at least 3.0.

The eighteen approved credit hours of engineering, math, and science are subjected to the following restrictions.

1. At least nine credit hours within the student's major must be selected at the 5xx level or higher.
2. A maximum of six credit hours may be selected from classes offered outside of the JI. These credit hours must be approved by the faculty adviser and the graduate committee. The [Petition to Take a Non-JI Course form](#) can be downloaded from the [Graduate Student Forms](#).
3. Students must take at least three credit hours outside their discipline group to ensure the breadth of their study program.
4. If the Graduate Committee approves a non-JI math class to satisfy the math requirement, those non-JI math credits do not count toward this total of six credit hours.

