

# **UIC Graduation Requirements**

**Integrated Science and Engineering Division -  
Nano Science and Engineering**

(Major, Double Major, Transfer Student with a Bachelor's Degree, Minor)

## 1. Major Graduation Requirements (The same rule applies to General Transfer Students)

### UIC ISED-Nano Science and Engineering

Category		2014		2015, 2016		2017		2018	
		Course	Credit	Course	Credit	Course	Credit	Course	Credit
Common Curriculum	CC	Chapel	4P(2P) <sup>1)</sup>	Chapel	2 <sup>1)</sup>	Chapel	2 <sup>1)</sup>	Chapel	2 <sup>1)</sup>
		Understanding Christianity	3	Understanding Christianity	3	Understanding Christianity	3	Understanding Christianity	3
		Freshman Writing Intensive Seminar	3	Freshman Writing Intensive Seminar	3	Freshman Writing Intensive Seminar	3	Freshman Writing Intensive Seminar	3
		CC L-H-P Series	3	CC L-H-P Series	3	CC L-H-P Series	3	CC L-H-P Series	3
		Critical Reasoning or Research Design and Quantitative Methods	3	Critical Reasoning or Research Design and Quantitative Methods	3	Critical Reasoning or Research Design and Quantitative Methods	3	Critical Reasoning or Research Design and Quantitative Methods	3
		UIC Seminars	6	UIC Seminars	6	UIC Seminars	6	UIC Seminars	6
		Western Civilization or Eastern Civilization	3	Western Civilization or Eastern Civilization	3	Western Civilization or Eastern Civilization	3	Western Civilization or Eastern Civilization	3
		Holistic Education I, II, III	2 <sup>3)</sup>	Holistic Education I, II, III	2 <sup>3)</sup>	Holistic Education I, II, III	2 <sup>3)</sup>	Social Engagement	1
	Yonsei RC101	1	Yonsei RC101	1	Yonsei RC101	1	Yonsei RC101	1	
	UICE	Calculus and Vector Analysis I, II General Biology and Laboratory I, II General Chemistry and Laboratory I, II General Physics and Laboratory I, II	18 <sup>4)</sup>	Calculus and Vector Analysis I, II General Biology and Laboratory I, II General Chemistry and Laboratory I, II General Physics and Laboratory I, II	18 <sup>4)</sup>	Calculus and Vector Analysis I, II General Biology and Laboratory I, II General Chemistry and Laboratory I, II General Physics and Laboratory I, II	18 <sup>4)</sup>	Calculus and Vector Analysis I, II General Biology and Laboratory I, II General Chemistry and Laboratory I, II General Physics and Laboratory I, II	18 <sup>4)</sup>
Subtotal		42	Subtotal	44	Subtotal	44	Subtotal	43	
Major	MB					Introduction to Integrated Science and Engineering	3	Introduction to Integrated Science and Engineering	3
						Fundamentals of Quantum Physics	3	Fundamentals of Quantum Physics	3
						Physical Chemistry(1)	3	Physical Chemistry(1)	3
	MR	Fundamentals of Quantum Physics	3	Fundamentals of Quantum Physics	3	Introduction to Nanotechnology and Laboratory	3	Introduction to Nanotechnology and Laboratory	3
		Introduction to Nanotechnology and Laboratory	3	Introduction to Nanotechnology and Laboratory	3	Nano-characterization	3	Nano-characterization	3
		Nano-characterization	3	Nano-characterization	3	Electromagnetic Theory	3	Electromagnetic Theory	3
		Electromagnetic Theory	3	Electromagnetic Theory	3	Solid State Chemistry	3	Solid State Chemistry	3
		Solid State Chemistry	3	Solid State Chemistry	3	Junior Independent Study	3	Junior Independent Study	3
		Physical Chemistry(1)	3	Physical Chemistry(1)	3	NSE Senior Thesis	3	NSE Senior Thesis	3
ME		39		39		30		30	
	Subtotal	57	Subtotal	57	Subtotal	57	Subtotal	57	
Total Credits		135		135		135		135	

1. Transfer students admitted to sophomore year must earn 3 Passes. Transfer students admitted to junior year must earn 2 Passes.

2. Required major credits will be reduced to 36 if a student completes a double major.

3. Select 2 categories out of 3 categories.

4. Select 6 courses out of 8 courses.

5. General transfer students get an exemption for Holistic Education and Yonsei RC101 courses.

## 2. Double Major Graduation Requirements

### *UIC ISED-Nano Science and Engineering*

구분	종별	2014~2016		2017	
		Course	Credit	Course	Credit
Major	MB			Introduction to Integrated Science and Engineering	3
				Fundamentals of Quantum Physics	3
				Physical Chemistry(1)	3
	MR	Fundamentals of Quantum Physics	3	Introduction to Nanotechnology and Laboratory	3
		Introduction to Nanotechnology and Laboratory	3	Nano-characterization	3
		Nano-characterization	3	Electromagnetic Theory	3
		Electromagnetic Theory	3	Solid State Chemistry	3
		Solid State Chemistry	3	Junior Independent Study	3
		Physical Chemistry(1)	3	NSE Senior Thesis	3
	ME		18		9
		<b>Subtotal</b>	<b>36</b>	<b>Subtotal</b>	<b>36</b>
Common Curriculum	UICE	Calculus and Vector Analysis I, II General Biology and Laboratory I, II General Chemistry and Laboratory I, II General Physics and Laboratory I, II	18 <sup>2)</sup>	Calculus and Vector Analysis I, II General Biology and Laboratory I, II General Chemistry and Laboratory I, II General Physics and Laboratory I, II	18 <sup>2)</sup>
		<b>Subtotal</b>	<b>18</b>	<b>Subtotal</b>	<b>18</b>
<b>Total Credits</b>		<b>54</b>		<b>54</b>	

1. Only UIC students can apply for a double major within UIC major offerings.

2. Select 6 courses out of 8 courses.

3. For common curriculum requirements, students having a double (2nd) major should follow the CC requirements of their 1st major.

### 3. Graduation Requirements for Transfer Students with a Bachelor's Deg

#### *UIC ISED-Nano Science and Engineering*

구분	종별	2014~2016		2017	
		Course	Credit	Course	Credit
Major	MB			Introduction to Integrated Science and Engineering	3
				Fundamentals of Quantum Physics	3
				Physical Chemistry(1)	3
	MR	Fundamentals of Quantum Physics	3	Introduction to Nanotechnology and Laboratory	3
		Introduction to Nanotechnology and Laboratory	3	Nano-characterization	3
		Nano-characterization	3	Electromagnetic Theory	3
		Electromagnetic Theory	3	Solid State Chemistry	3
		Solid State Chemistry	3	Junior Independent Study	3
		Physical Chemistry(1)	3	NSE Senior Thesis	3
	ME		39		30
		<b>Subtotal</b>	<b>57</b>	<b>Subtotal</b>	<b>57</b>
<b>Total Credits</b>		<b>57</b>		<b>57</b>	

1. Transfer students with a bachelor's degree are required to take 2 semesters of Chapel.

## 4. Minor Graduation Requirements

### *UIC ISED-Nano Science and Engineering*

구분	종별	2014~2017	
		Course	Credit
	MR	Fundamentals of Quantum Physics	3
		Introduction to Nanotechnology and Laboratory	3
		Nano-characterization	3
	ME		9
		<b>Subtotal</b>	<b>18</b>
<b>Total Credits</b>		<b>18</b>	

1. Only UIC students can apply for a minor within UIC major offerings.