UIC Graduation Requirements

Integrated Science and Engineering Division -
Energy & Environmental 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-Energy & Environmental Science and Engineering

Category		2014		2015, 2016		2017		2018, 2019		2020~2022		2023~	
		Course	Credit	Course	Credit	Course	Credit	Course	Credit	Course	Credit	Course	Credit
Common Curriculum	CC	Chapel	4P(2P)	Chapel	2	Chapel	2	Chapel	2	Chapel	2	Chapel	2
		Understanding Christianity	3	Understanding Christianity	3	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	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	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	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	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	Western Civilization or Eastern Civilization	3	Western Civilization or Eastern Civilization	3
		Holistic Education I, II, III	2[2)]	Holistic Education I, II, III	2[2)]	Holistic Education I, II, III	2[2)]	Social Engagement	1	Social Engagement	0[5)]		
		Yonsei RC101	1	Yonsei RC101	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[3)]	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[3)]	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[3)]	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[3)]	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[3)]	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[3)]
		Subtotal	**42**	**Subtotal**	**44**	**Subtotal**	**44**	**Subtotal**	**43**	**Subtotal**	**42**	**Subtotal**	**42**
Major	MB					Introduction to Integrated Science and Engineering	3	Introduction to Integrated Science and Engineering	3	Introduction to Integrated Science and Engineering	3	Introduction to Integrated Science and Engineering	3
						(UIC) Organic chemistry(1)	3	(UIC) Organic chemistry(1)	3	(UIC) Organic chemistry(1)	3	(UIC) Organic chemistry(1)	3
						Solid State Chemistry	3	Solid State Chemistry	3	Solid State Chemistry	3	Solid State Chemistry	3
	MR	Introduction to Energy/Environmental Science and Engineering	3	Introduction to Energy/Environmental Science and Engineering	3	Introduction to Energy/Environmental Science and Engineering	3	Introduction to Energy/Environmental Science and Engineering	3	Introduction to Energy/Environmental Science and Engineering	3	Introduction to Energy/Environmental Science and Engineering	3
		Solid State Chemistry	3	Solid State Chemistry	3	Fluid Dynamics	3	Fluid Dynamics	3	Fluid Dynamics	3	Fluid Dynamics	3
		Fluid Dynamics	3	Fluid Dynamics	3	Thermodynamics(1)	3	Thermodynamics(1)	3	Thermodynamics(1)	3	Thermodynamics(1)	3
		Thermodynamics(1)	3	Thermodynamics(1)	3	Transport Theory	3	Transport Theory	3	Transport Theory	3	Transport Theory (Transport Phenomena in Green Technology)	3
		Transport Theory	3	Transport Theory	3	Junior Independent Study	3	Junior Independent Study	3	Junior Independent Study	3	Junior Independent Study	3
		(UIC) Organic chemistry(1)	3	(UIC) Organic chemistry(1)	3	EESE Senior Thesis	3	EESE Senior Thesis	3	EESE Senior Thesis	3	EESE Senior Thesis	3
	ME		39		39		30		30		30		30
		Subtotal	**57**	**Subtotal**	**57**	**Subtotal**	**57**	**Subtotal**	**57**	**Subtotal**	**57**	**Subtotal**	**57**
Total Credits		**135**		**135**		**135**		**135**		**135**		**135**	

1). Required major credits will be reduced to 36 if a student completes a double major (see next page for details on double majors).

2). Select 2 categories out of 3 categories.

3). Select 6 courses out of 8 courses.

4). Up to 4 courses from other majors listed on the UIC website can be recognized as NSE major for students who completed them by the end of the Fall 2019 semester.

5). Students admitted in 2020-2022 get an exemption for Social Engagement courses.

[Notice for transfer students]

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

2). Transfer students get an exemption for Holistic Education(or Social Engagement) and Yonsei RC101 courses.

3). Transfer student may take additional 3 credits of World History / World Literature instead of Western Civilization / Eastern Civilization.

2. Double Major Graduation Requirements

UIC - ISED-Energy & Environmental Science and Engineering

구분	종별	2014 ~ 2016		2017 ~	
		Course	Credit	Course	Credit
Major	MB			Introduction to Integrated Science and Engineering	3
				Organic chemistry(1)	3
				Solid State Chemistry	3
	MR	Introduction to Energy/Environmental Science and Engineering	3	Introduction to Energy/Environmental Science and Engineering	3
		Solid State Chemistry	3	Fluid Dynamics	3
		Fluid Dynamics	3	Thermodynamics(1)	3
		Thermodynamics(1)	3	Transport Theory (Transport Phenomena in Green Tehcnology)	3
		Transport Theory	3	Junior Independent Study	3
		Organic chemistry(1)	3	EESE Senior Thesis	3
	ME		18		9
		Subtotal	**36**	**Subtotal**	**36**
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[2)]	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[2)]
		Subtotal	**18**	**Subtotal**	**18**
Total Credits		**54**		**54**	

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 Degree

UIC - ISED-Energy & Environmental Science and Engineering

구분	종별	2014 ~ 2016		2017 ~	
		Course	Credit	Course	Credit
Major	MB			Introduction to Integrated Science and Engineering	3
				Organic chemistry (1)	3
				Solid State Chemistry	3
	MR	Introduction to Energy/Environmental Science and Engineering	3	Introduction to Energy/Environmental Science and Engineering	3
		Solid State Chemistry	3	Fluid Dynamics	3
		Fluid Dynamics	3	Thermodynamics(1)	3
		Thermodynamics(1)	3	Transport Theory (Transport Phenomena in Green Tehcnology)	3
		Transport Theory	3	Junior Independent Study	3
		Organic chemistry(1)	3	EESE Senior Thesis	3
	ME		39		30
		Subtotal	**57**	**Subtotal**	**57**
Total Credits		**57**		**57**	

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

4. Minor Graduation Requirements

UIC - ISED-Energy & Environmental Science and Engineering

구분	종별	2014 ~	
		Course	Credit
Major	MR	Introduction to Energy/Environmental Science and Engineering	3
		Fluid Dynamics	3
		Thermodynamics(1)	3
	ME		9
		Subtotal	**18**
Total Credits		**18**	

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