❑ 상반기 입학생(필수 6학점, 선택 15학점)

2학년		3학년		4학년	
봄학기	가을학기	봄학기 (6학점)	가을학기 (6학점)	봄학기 (3+3학점)	가을학기 (3학점)
		(CHEB202) 화공물리화학II (CHEB214) 에너지환경공학 (CHEB305) 반응공학 (CHEB315) 스마트 연성 재료 공학 (CHEB417) 전달현상 (CHEM311) 물리화학II (CHEM331) 무기화학 (AMSE313) 소재물리 (AMSE341) 세라믹소재개론 (GIFT518) Intro to battery system	(CHEB301) 화공 프로그래밍 및 AI (CHEB314) 분자 및 표면 공학 개론 (CHEB413) 에너지환경 소재 분석 개론 (CHEM342) 기기분석 (AMSE361) 고분자소재개론 (GIFT761) Active materials for lithium-ion	(AMSE414) 에너지소재 (CHEB427) 화공종합설계 (3) (CHEB469Y) 특강: 화공양자화학 (CHEB562) 배터리를 위한 탄소기반 소재 (CHEM531) 고등무기화학I (AMSE412) 나노 과학과 기술 (GIFT762) Energy Storage System and Design	(CHEB412) 이차전지 화학공정 (CHEB563) 차세대 수소에너지 (CHEM451) 고분자화학 (CHEM621) 유기금속화학 (AMSE513) 에너지 전기화학 (GIFT769) Advanced Battery Science and Engineering (GIFT770) Analytical techniques for nano &energy materials

※ **전공필수:** 빨간색 / **전공선택:** 파란색 / **기타과목:** 검정색 / **STC:** *

❑ Spring Entry(Required: 6 credits, Electives: 15 credits)

Year 2		Year 3		Year 4	
Spring Semester	Fall Semester	Spring Semester (6 credits)	Fall Semester (6 credits)	Spring Semester (3+3 credits)	Fall Semester (3 credits)
		(CHEB202) Physical Chemistry for Chemical Eng. I (CHEB214) Chem. Eng. For Energy & Environment (CHEB305) Reaction Eng. (CHEB315) Smart Soft Material Engineering (CHEB417) Transport Phenomena (CHEM311) Physical Chemistry for Chemical Eng. II (CHEM331) Inorganic Chemistry (AMSE313) Material Physics (AMSE341) Introduction to Ceramics (GIFT518) Intro to battery system	(CHEB301) Programming & AI in Chemical Engineering (CHEB314) Intro. To Intermolecular & Surface Forces (CHEB413) Characterization of Energy & Environmental Materials (CHEM342) Instrumental Analysis (AMSE361) Introduction to Polymers (GIFT761) Active materials for lithium-ion	(AMSE414) Energy Materials (CHEB427) Chemical Engineering Capston Design (CHEB469Y) ST: Quantum Chemistry in Chemical Engineering (CHEB562) Carbon-based Material for Energy Storage (CHEM531) Advanced Inorganic Chemistry (AMSE412) Nanoscience & Nanotechnology (GIFT762) Energy Storage System and Design	(CHEB412) Chem. Eng. Process for Rechargeable Battery (CHEB563) Advanced Hydrogen Energy (CHEM451) Polymer Chemistry (CHEM621) Organometallic Chemistry (AMSE513) Electrochem. For Energy Application (GIFT769) Advanced Battery Science and Engineering (GIFT770) Analytical techniques for nano &energy materials

※ **Major required**: Red / **Major elective**: Blue / **Others**: Black / **STC**: *

❑ 하반기 입학생(필수 6학점, 선택 15학점)

2학년		3학년		4학년	
가을학기	봄학기 (3학점)	가을학기 (3학점)	봄학기 (3학점)	가을학기 (3+3학점)	봄학기 (3+3학점)
	(CHEB202) 화공물리화학II (CHEB214) 에너지환경공학	(CHEB301) 화공 프로그래밍 및 AI (CHEB314) 분자 및 표면 공학 개론 (CHEB413) 에너지환경 소재 분석 개론 (CHEM342) 기기분석 (AMSE361) 고분자소재개론 (GIFT761) Active materials for lithium-ion	(CHEB305) 반응공학 (CHEB315) 스마트 연성 재료 공학 (CHEB417) 전달현상 (CHEM311) 물리화학II (CHEM331) 무기화학 (AMSE313) 소재물리 (AMSE341) 세라믹소재개론 (GIFT518) Intro to battery system	(CHEB412) 이차전지 화학공정 (CHEB563) 차세대 수소에너지 (CHEM451) 고분자화학 (CHEM621) 유기금속화학 (AMSE513) 에너지 전기화학 (GIFT769) Advanced Battery Science and Engineering (GIFT770) Analytical techniques for nano &energy materials	(AMSE414) 에너지소재 (CHEB427) 화공종합설계 (3) (CHEB469Y) 특강: 화공양자화학 (CHEB562) 배터리를 위한 탄소기반 소재 (CHEM531) 고등무기화학I (AMSE412) 나노 과학과 기술 (GIFT762) Energy Storage System and Design

※ **전공필수:** 빨간색 / **전공선택:** 파란색 / **기타과목:** 검정색 / **STC:** *

❑ Fall Entry(Required: 6 credits, Electives: 15 credits)

Year 2		Year 3		Year 4	
Fall Semester	Spring Semester (3 credits)	Fall Semester (3 credits)	Spring Semester (3 credits)	Fall Semester (3+3 credits)	Spring Semester (3+3 credits)
	(CHEB202) Physical Chemistry for Chemical Eng. I (CHEB214) Chem. Eng. For Energy & Environment	(CHEB301) Programming & AI in Chemical Engineering (CHEB314) Intro. To Intermolecular & Surface Forces (CHEB413) Characterization of Energy & Environmental Materials (CHEM342) Instrumental Analysis (AMSE361) Introduction to Polymers (GIFT761) Active materials for lithium-ion	(CHEB305) Reaction Eng. (CHEB315) Smart Soft Material Engineering (CHEB417) Transport Phenomena (CHEM311) Physical Chemistry for Chemical Eng. II (CHEM331) Inorganic Chemistry (AMSE313) Material Physics (AMSE341) Introduction to Ceramics (GIFT518) Intro to battery system	(CHEB412) Chem. Eng. Process for Rechargeable Battery (CHEB563) Advanced Hydrogen Energy (CHEM451) Polymer Chemistry (CHEM621) Organometallic Chemistry (AMSE513) Electrochem. For Energy Application (GIFT769) Advanced Battery Science and Engineering (GIFT770) Analytical techniques for nano &energy materials	(AMSE414) Energy Materials (CHEB427) Chemical Engineering Capston Design (CHEB469Y) ST: Quantum Chemistry in Chemical Engineering (CHEB562) Carbon-based Material for Energy Storage (CHEM531) Advanced Inorganic Chemistry (AMSE412) Nanoscience & Nanotechnology (GIFT762) Energy Storage System and Design

※ **Major required**: Red / **Major elective**: Blue / **Others**: Black / **STC**: *