❑ 상반기 입학생

	2학년		3학년		4학년	
	봄학기	가을학기	봄학기	가을학기	봄학기	가을학기
물리 및 화학	CHEM221 유기화학I (3-0-3) CHEB206 화공유기화학I (3-0-3)	CHEM261 의약생명화학 (3-0-3) CHEB207 화공유기화학II (3-0-3)		PHYS312 전산물리 (2-2-3)	PHYS413 생물물리학 (3-0-3)	
생명과학	LIFE219 융합생명과학 (3-0-3)	LIFE217 세포생물학 (3-0-3)	LIFE319 생화학I (3-0-3)	LIFE321 분자생물학 (3-0-3) LIFE320 생화학II (3-0-3) LIFE325 생물공학 (3-0-3)		CHEM461 생화학 (3-0-3) LIFE414 시스템생물학 (3-0-3) LIFE619 생물정보학 (3-0-3)
수리과학	MATH200 미분방정식 (3-1-3) MATH203 응용선형대수 (3-1-3) MATH230 확률 및 통계 (3-1-3) MATH231 실험통계학 (3-1-3) IMEN260 경영과학I (3-0-3) IMEN272 공학기초통계 (3-1-3)		MATH313 편미분방정식개론 (3-0-3) MATH351 수치해석개론 (3-0-3)			
화학-소재 공학 응용	CHEB208 화학생명공학 (3-0-3) AMSE201 신소재과학 (3-1-3) CHEB213 화학생명공학 실험 (0-4-2)	AMSE207 소재화학 (3-0-3) CHEB216 화학공학실험 (0-6-3) CHEB469D 특강: 바이오엔지니어링 입문 (3-0-3)	CHEB308 생물공학개론 (3-0-3)	AMSE361 고분자소재개론 (3-0-3) CHEB301 화공프로그래밍 및 AI (3-0-3) CHEB313 콜로이드 및 계면현상 개론 (3-0-3)	CHEB417 전달현상 (3-0-3) AMSE464 고분자 물성과 응용 (3-0-3)	AMSE407 소재분석기기 (3-0-3) AMSE412 나노과학과기술 (3-0-3) AMSE416 바이오의료소재 (3-0-3) CHEB409 합성생물학개론 (3-0-3) CHEB418 에너지 및 물질 전달 (3-0-3) CHEB469A 특강: 시스템 생화학 (3-0-3)

필수과목

선택과목

필수이수과목
: 최소 3개의 영역에서 영역별 최소 1과목 이수 필수

선택이수과목
: 최소 3개의 영역에서 영역별 최소 1과목 이상 이수 필수

CHEB469D
특강:바이오 엔지니어링 입문
: 입학시기 상관없이 2학년 가을학기수강 (봄학기 입학생 – 2학년 2학기 수강. 가을학기 입학생 – 2학기 1학기 수강)

❑ Spring Entry

	2nd Year		3th Year		4th Year	
	Spring Sem.	Fall Sem.	Spring Sem.	Fall Sem.	Spring Sem.	Fall Sem.
Physics and Chemistry	CHEM221 Organic Chemistry I (3-0-3) CHEB206 Organic Chemistry for Chemical Engineers I (3-0-3)	CHEM261 Chemistry for Medicine & Life (3-0-3) CHEB207 Organic Chemistry for Chemical EngineersII (3-0-3)		PHYS312 Computers for Physics (2-2-3)	PHYS413 Biological Physics (3-0-3)	
Life Sciences	LIFE219 Convergence of Biology and Engineering (3-0-3)	LIFE217 Cell Biology (3-0-3)	LIFE319 Biochemistry I (3-0-3)	LIFE321 Molecular Biology (3-0-3) LIFE320 BiochemistryII (3-0-3) LIFE325 Biotechnology (3-0-3)		CHEM461 Biochemistry (3-0-3) LIFE414 Systems Biology (3-0-3) LIFE619 Bioinformatics (3-0-3)
Mathematical Sciences	MATH200 Differential Equations (3-1-3) MATH203 Applied Linear Algebra (3-1-3) MATH230 Probability and Statistics (3-1-3) MATH231 Statistics for Experimental Research (3-1-3) IMEN260 Operations Research I (3-0-3) IMEN272 Probability and Statistics for Engineers (3-1-3)		MATH313 Introduction to Partial Differential Equations (3-0-3) MATH351 Introduction to Numerical Analysis (3-0-3)			
Chemistry -Materials Engineering Applications	CHEB208 Fundamentals in Engineering Biology (3-0-3) AMSE201 Fundamentals of Materials Science and Engineering (3-1-3) CHEB213 Engineering Biology Laboratory (0-4-2)	AMSE207 Materials Chemistry (3-0-3) CHEB216 Chemical Engineering Laboratory (0-6-3) CHEB469D Bioengineering Basics (3-0-3)	CHEB308 Introduction to Biotechnology (3-0-3)	AMSE361 Introduction to Polymers (3-0-3) CHEB301 Programming and AI in Chemical Engineering (3-0-3) CHEB313 Introduction to Colloid and Interfacial Phenome (3-0-3)	CHEB417 Transport Phenomena (3-0-3) AMSE464 Physical Properties and Applications of Polymers (3-0-3)	AMSE407 Instruments for Materials Characterization (3-0-3) AMSE412 Nanoscience and Nanotechnology (3-0-3) AMSE416 Biomedical Materials (3-0-3) CHEB409 Biochemical Engineering (3-0-3) CHEB418 Biochemical Engineering (3-0-3) CHEB469A System biochemistry (3-0-3)

Required Courses

Elective Courses

Required Courses

: Students must complete at least one course in each of at least three different areas.

Elective Courses

: Students must complete at least one course in each of at least three different areas.

CHEB469D Bioengineering Basics

: Regardless of admission term, this course must be taken in the Fall Semester of the 2nd year.

❑ 하반기 입학생

	2학년		3학년		4학년	
	가을학기	봄학기	가을학기	봄학기	가을학기	봄학기
물리 및 화학	CHEM261 의약생명화학 (3-0-3)	CHEM221 유기화학I (3-0-3) CHEB206 화공유기화학I (3-0-3)	PHYS312 전산물리 (2-2-3) CHEB207 화공유기화학II (3-0-3)			PHYS413 생물물리학 (3-0-3)
생명과학	LIFE217 세포생물학 (3-0-3)	LIFE219 융합생명과학 (3-0-3)	LIFE321 분자생물학 (3-0-3) LIFE325 생물공학 (3-0-3)	LIFE319 생화학I (3-0-3)	CHEM461 생화학 (3-0-3) LIFE414 시스템생물학 (3-0-3) LIFE619 생물정보학 (3-0-3) LIFE320 생화학II (3-0-3)	
수리과학		MATH200 미분방정식 (3-1-3) MATH203 응용선형대수 (3-1-3) MATH230 확률 및 통계 (3-1-3) MATH231 실험통계학 (3-1-3) IMEN260 경영과학I (3-0-3) IMEN272 공학기초통계 (3-1-3)		MATH313 편미분방정식개론 (3-0-3) MATH351 수치해석개론 (3-0-3)		
화학-소재 공학 응용	AMSE207 소재화학 (3-0-3) CHEB216 화학공학실험 (0-6-3) CHEB469D 특강: 바이오엔지니어링 입문 (3-0-3)	CHEB208 화학생명공학 (3-0-3) AMSE201 신소재과학 (3-1-3) CHEB213 화학생명공학 실험 (0-4-2)	AMSE361 고분자소재개론 (3-0-3) CHEB301 화공프로그래밍 및 AI (3-0-3) CHEB313 콜로이드 및 계면현상 개론 (3-0-3)	CHEB308 생물공학개론 (3-0-3)	AMSE407 소재분석기기 (3-0-3) AMSE412 나노과학과기술 (3-0-3) AMSE416 바이오의료소재 (3-0-3) CHEB409 합성생물학개론 (3-0-3) CHEB418 에너지 및 물질 전달 (3-0-3) CHEB469A 특강: 시스템 생화학 (3-0-3)	CHEB417 전달현상 (3-0-3) AMSE464 고분자 물성과 응용 (3-0-3)

필수과목

선택과목

필수이수과목
: 최소 3개의 영역에서 영역별 최소 1과목 이수 필수

선택이수과목
: 최소 3개의 영역에서 영역별 최소 1과목 이상 이수 필수

CHEB469D
특강:바이오 엔지니어링 입문
: 입학시기 상관없이 2학년 가을학기수강 (봄학기 입학생 – 2학년 2학기 수강. 가을학기 입학생 – 2학기 1학기 수강)

❑ Fall Entry

	2nd Year		3th Year		4th Year	
	Fall Sem.	Spring Sem.	Fall Sem.	Spring Sem.	Fall Sem.	Spring Sem.
Physics and Chemistry	CHEM261 Chemistry for Medicine & Life (3-0-3)	CHEM221 Organic Chemistry I (3-0-3) CHEB206 Organic Chemistry for Chemical Engineers I (3-0-3)	PHYS312 Computers for Physics (2-2-3) CHEB207 Organic Chemistry for Chemical EngineersII (3-0-3)			PHYS413 Biological Physics (3-0-3)
Life Sciences	LIFE217 Cell Biology (3-0-3)	LIFE219 Convergence of Biology and Engineering (3-0-3)	LIFE321 Molecular Biology (3-0-3) LIFE325 Biotechnology (3-0-3)	LIFE319 Biochemistry I (3-0-3)	CHEM461 Biochemistry (3-0-3) LIFE414 Systems Biology (3-0-3) LIFE619 Bioinformatics (3-0-3) LIFE320 BiochemistryII (3-0-3)	
Mathematical Sciences		MATH200 Differential Equations (3-1-3) MATH203 Applied Linear Algebra (3-1-3) MATH230 Probability and Statistics (3-1-3) MATH231 Statistics for Experimental Research (3-1-3) IMEN260 Operations Research I (3-0-3) IMEN272 Probability and Statistics for Engineers (3-1-3)		MATH313 Introduction to Partial Differential Equations (3-0-3) MATH351 Introduction to Numerical Analysis (3-0-3)		
Chemistry -Materials Engineering Applications	AMSE207 Materials Chemistry (3-0-3) CHEB216 Chemical Engineering Laboratory (0-6-3) CHEB469D Bioengineering Basics (3-0-3)	CHEB208 Fundamentals in Engineering Biology (3-0-3) AMSE201 Fundamentals of Materials Science and Engineering (3-1-3) CHEB213 Engineering Biology Laboratory (0-4-2)	AMSE361 Introduction to Polymers (3-0-3) CHEB301 Programming and AI in Chemical Engineering (3-0-3) CHEB313 Introduction to Colloid and Interfacial Phenome (3-0-3)	CHEB308 Introduction to Biotechnology (3-0-3)	AMSE407 Instruments for Materials Characterization (3-0-3) AMSE412 Nanoscience and Nanotechnology (3-0-3) AMSE416 Biomedical Materials (3-0-3) CHEB409 Biochemical Engineering (3-0-3) CHEB418 Biochemical Engineering (3-0-3) CHEB469A System biochemistry (3-0-3)	CHEB417 Transport Phenomena (3-0-3) AMSE464 Physical Properties and Applications of Polymers (3-0-3)

Required Courses

Elective Courses

Required Courses

: Students must complete at least one course in each of at least three different areas.

Elective Courses

: Students must complete at least one course in each of at least three different areas.

CHEB469D Bioengineering Basics

: Regardless of admission term, this course must be taken in the Fall Semester of the 2nd year.