

**KAIST CBE**  
**2016 Spring Course Offering**

2016-02-05

Course No.	Section	Course Title	Credit	English	Instructor	Course for both UG/GR	Prerequisite Course
CBE202		생명화학공학개론	3	0	임선기		
CBE203		공업유기화학	3	0	최민기		
CBE205		생화공학해석	3	0	임성갑		MAS101, MAS102
CBE260		생명분자공학	3	0	정기준		
CBE301		생명화학공학실험	3	0	박정기		
CBE311		분자반응공학	3	0	김범준		
CBE331		화공유체역학	3	0	김도현		CBE205
CBE341		공정모사와 제어	3	0	이재형		
CBE351		고분자공학개론	3		박오욱		
CBE371		전기화학공학	3	0	김희탁		
CBE404		생화공물리화학II	3		우성일		
CBE441		공정 및 제품 디자인	3	0	이재우	0	CBE202, CBE221, CBE321
CBE481	A	생명화학공학특강<생물시스템의 공학적 원리>	3	0	김유식	0	
CBE481	B	생명화학공학특강<Chemical Engineering Design Practice>	3	0	김희탁 이도창	0	
CBE496		세미나	1		최민기		
CBE512		촉매공학개론	3	0	이현주		
CBE522		계면공학	3		김종득		
CBE532		물질전달	3		홍원희		
CBE542		공정최적화	3	0	박선원	0	
CBE564		생물공정공학	3	0	김유천	0	CBE261, CBE311
CBE568		생명공학을 위한 나노기술	3	0	박현규	0	
CBE569		핵산공학	3	0	서태석	0	
CBE601		생명화학공학 연구방법론	3	0	이도창		
CBE602		생명화학공학의 문제해결	3	0	김신현		
CBE651		다성분계 고분자재료	3	0	Sheng Li		
CBE773	A	생명화학공학의 최근동향<Introduction to Molecular Simulations>	3	0	김지한		
CBE773	B	생명화학공학의 최근동향<미세유변학특론>	3	0	최시영		
CBE773	C	생명화학공학의 최근동향<Biorefinery Science and Engineering>	3	0	박선규		
CBE773	D	생명화학공학의 최근동향<롯데케미칼 R&D 특강>	3		Staff		
CBE773	E	생명화학공학의 최근동향<한화케미칼 R&D 특강>	3		Staff		
CBE773	F	생명화학공학의 최근동향<Advances in Metabolic Engineering>	3	0	이상엽		
CBE966		세미나	1		최민기		

**KAIST CBE**  
**2016 Spring Course Offering**

2016-02-05

Course No.	Section	Course Title	Credit	English	Instructor	Course for both UG/GR	Prerequisite Course
CBE202		Introduction to Chemical and Biomolecular Engineering	3	0	Son Ki Ihm		
CBE203		Industrial Organic Chemistry	3	0	Minkee Choi		
CBE205		Chemical and Biomolecular Engineering Analysis	3	0	Sung Gap Im		MAS101, MAS102
CBE260		Biomolecular Engineering	3	0	Ki Jun Jeong		
CBE301		Chemical and Biomolecular Engineering Laboratory	3	0	Jung Ki Park		
CBE311		Molecular Reaction Engineering	3	0	Bumjoon Kim		
CBE331		Fluid Mechanics for Chemical Engineering	3	0	Do Hyun Kim		CBE205
CBE341		Process Simulation and Control	3	0	Jay H. Lee		
CBE351		Introduction to Macromolecular Engineering	3		O Ok Park		
CBE371		Electrochemical Principles for Chemical and Biomolecular Engineering	3	0	Hee Tak Kim		
CBE404		Physical Chemistry for Chemical and Biomolecular EngineersII	3		Seong Ihn Woo		
CBE441		Techniques of Process & Product Design	3	0	Jae W. Lee	0	CBE202, CBE221, CBE321
CBE481	A	Special Topics in Chemical and Biomolecular Engineering<Engineering principles in biological systems>	3	0	Yoosik Kim	0	
CBE481	B	Special Topics in Chemical and Biomolecular Engineering<Chemical Engineering Design Practice>	3	0	Hee Tak Kim, Doh Chang Lee	0	
CBE496		Seminar for Undergraduate Students	1		Staff		
CBE512		Introduction to Catalysis Engineering	3	0	Hyun Joo Lee		
CBE522		Introduction to Interfacial Engineering	3		Jong Duk Kim		
CBE532		Mass Transfer	3		Won Hi Hong		
CBE542		Process Optimization	3	0	Sunwon Park	0	
CBE564		Bioprocess Engineering	3	0	Yeu Chun Kim	0	CBE261, CBE311
CBE568		Nanobiotechnology for Biochemical Engineers	3	0	Hyun Gyu Park	0	
CBE569		Nucleic Acid Engineering	3	0	Tae Seok Seo	0	
CBE601		Research Methodology for Chemical and Biomolecular Engineers	3	0	Doh Chang Lee		
CBE602		Problem Solving in Chemical and Biomolecular Engineering	3	0	Shin Hyun Kim		
CBE651		Multicomponent Polymer Materials	3	0	Sheng Li		
CBE773	A	Recent Topics in Chemical & Biomolecular Engineering<Introduction to Molecular Simulations>	3	0	Jihan Kim		
CBE773	B	Recent Topics in Chemical & Biomolecular Engineering<Recent progress in microrheology>	3	0	Si Young Choi		
CBE773	C	Recent Topics in Chemical & Biomolecular Engineering<Biorefinery Science and Engineering>	3	0	Sunkyu Park		
CBE773	D	Recent Topics in Chemical & Biomolecular Engineering<Lotte Chemical R&D special lecture on chemical industry>	3		Staff		
CBE773	E	Recent Topics in Chemical & Biomolecular Engineering<Hanwha Chemical R&D special lecture on chemical industry>	3		Sang Yup Lee		
CBE773	F	Recent Topics in Chemical & Biomolecular Engineering<Advances in Metabolic Engineering>	3	0	Staff		
CBE966		Seminar <Master Student>	1		Staff		

**KAIST CBE**  
**2016 Fall Course Offering**

2016-02-05

Course No.	Section	Course Title	Credit	Instructor	Course for both UG/GR	Prerequisite Course
CBE201		분자공학실험	3	김범준		
CBE206		생화공 수치계산법	3	김지한		MAS101, MAS102
CBE221		분자열역학과 에너지 시스템	3	이훈		
CBE261		생물화학공학	3	정기준		
CBE303		생화공물리화학I	3	최민기		
CBE321		분리공정	3	홍원희		CBE202, CBE221
CBE332		열과 분자의 이동	3	임성갑		
CBE442		디자인 프로젝트	3	이재우	0	CBE311, CBE321, CBE441
CBE455		나노화학기술	3	최시영	0	
CBE462		생물분리공학	3	박현규	0	
CBE473		미세전자공정	3	우성일	0	
CBE581		미세생명화학시스템	3	서태석	0	
CBE481		생명화학공학특강	1	박선원		
CBE496		세미나	3	staff	0	
CBE533		미세구조 유체 흐름의 원리	3	박오욱	0	
CBE554		고분자의 물리적 원리	3	박정기	0	
CBE572		무기재료공정	3	이도창	0	
CBE602		생명화학공학의 문제해결	3	이현주		
CBE631		마이크로플루이딕스	3	김도현		
CBE632		콜로이드와 계면화학	3	김종득		
CBE682		유기나노구조재료	3	정희태		
CBE771		고급 전기화학공학	3	김희탁		
CBE773	A	생명화학공학의 최근동향	3	김신현		
CBE773	B	생명화학공학의 최근동향	3	김유천		
CBE966		세미나(석사)	1	staff		

**KAIST CBE**  
**2016 Fall Course Offering**

2016-02-05

Course No.	Section	Course Title	Credit	Instructor	Course for both UG/GR	Prerequisite Course
CBE201		Molecular Engineering Laboratory	3	Bumjoon Kim		
CBE206		Introduction to Numerical Methods for Chem. Bio. Engineers	3	Jihan Kim		MAS101, MAS102
CBE221		Molecular Thermodynamics and Energy Systems	3	Huen Lee		
CBE261		Biochemical Engineering	3	Ki Jun Jeong		
CBE303		Physical Chemistry for Chemical and Biomolecular Engineers I	3	Minkee Choi		
CBE321		Separation Processes	3	Won Hi Hong		CBE202, CBE221
CBE332		Heat and Molecular Transfer	3	Sung Gap Im		
CBE442		Chemical and Biomolecular Engineering Capstone Design Project	3	Jae W. Lee	0	CBE311, CBE321, CBE441
CBE455		Nanochemical Technology	3	Si Young Choi	0	
CBE462		Bioseparation Engineering	3	Hyun Gyu Park	0	
CBE473		Microelectronics Processes	3	Seong Ihn Woo	0	
CBE481		Special Topics in Chemical and Biomolecular Engineering	3	Sunwon Park	0	
CBE496		Seminar for Undergraduate Students	1	staff	0	
CBE533		Fundamentals of Microstructured Fluid Flow	3	O Ok Park	0	
CBE554		Physical Principles of Polymers	3	Jung Ki Park	0	
CBE572		Inorganic Materials Processing	3	Doh Chang Lee	0	
CBE581		Micro-Chemical and Biomolecular Systems	3	Tae Seok Seo	0	
CBE602		Problem Solving in Chemical and Biomolecular Engineering	3	Hyunjoo Lee		
CBE631		Microfluidics	3	Do Hyun Kim		
CBE632		Colloids and Surface Chemistry	3	Jong Duk Kim		
CBE682		Organic Nano-Structured Materials	3	Hee Tae Jung		
CBE771		Advanced Reaction Engineering	3	Hee Tak Kim		
CBE773	A	Recent Topics in Chemical & Biomolecular Engineering	3	Shin Hyun Kim		
CBE773	B	Recent Topics in Chemical & Biomolecular Engineering	3	Yeu-Chun Kim		
CBE966		Seminar <Master Student>	1	staff		