

Biochemical Engineering

Course title	Course description	Instructor
精密有機合成化学特論 Advanced Organic Synthesis I	This course will provide a deeper understanding of the reactivity and properties of organic compounds in organic synthesis, and cover the following topics: practical synthetic methods for the preparation of organic compounds, organometallic chemistry including the use of organometallic catalysts, and stereoselective synthesis using chiral auxiliary and asymmetric catalysts.	波多野豊平 Bunpei HATANO
生物有機化学特論 Bioorganic Chemistry	Stereo-selective synthesis and construction of organic molecules to use the total synthesis of natural products and creation of functional molecules are introduced. Recently, chemical biology to study biological mechanism by synthetic chemical probes is attracting the attention. So drug discovery and organic chemistry of life science will also be lectured.	今野博行 Hiroyuki KONNO
有機資源変換化学特論 Chemistry of Organic Reactions and Materials	Short topics more than 100 on chemistry of organic reactions and materials are supplied to all students and one or two topics are selected by themselves. Background and summary of the topics should be presented by them with the future plan of the topics. The object of this subject is to upgrade the understanding of fundamental progress and application of chemistry and the ability of presentation.	多賀谷 英幸 Hideyuki TAGAYA
コロイド分散・界面化学特 論 Colloid Dispersion and Interface Science	This course lectures dispersion behavior of colloidal materials. We focus the control technology with surfactant molecules and DLVO theory on aggregation phenomena. Some applications for medical, cosmetic and food products will also be introduced.	野々村 美宗 Yoshimune NONOMURA 木俣光正 Mitsumasa KIMATA