

Code	BENG541
Name	Molecular Cell Biology for Engineers
Hour per week	3 (3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate / Anytime
Semester	Fall and Spring
Type	Elective
Prerequisites	-
Content	Basic principles of molecular cell biology and common research methods will be covered and how to apply these approaches to the field of interest for students with bioengineers/ biomedical background. Topic to be covered include the basic principles of cell biology, molecular biology and genetic engineering for students with bioengineers/ biomedical background: Organelles, cytoskeleton, DNA replication, transcription, translation, regulation gene expression, cell membrane and transport, cell-cell interactions, cell signaling, recombinant DNA technology, molecular modelling