

Code	<b>BENG 539</b>
Name	Nanocarriers and Drug Delivery
Hour per week	3 (3+0)
Credit	3
ECTS	10
Level/Year	Graduate / Anytime
Semester	Fall/Spring
Type	Elective
Prerequisites	
Content	Nanotechnology approaches towards drug delivery and types, characteristics, and in vivo behavior of nanocarrier systems will be covered. Topics to be covered include definition of drug delivery; nanocarrier design, characterization, and types; lipid, inorganic, polymer based nanocarriers, and viruses; nanoparticles in monitoring, targeting, biodistribution studies, EPR effect, toxicity, examples from preclinical and clinical stage formulations.