BMEN 6321 Polymers for Biomedical Applications

This course describes basic synthesis, characterization, and applications of synthetic and natural polymers. This course is designed for graduate students in all areas who are interested in biomedical applications of polymers including implantable devices, drug-delivery, and tissue engineering. Topics include: introduction to polymer chemistry and physics, biodegradable polymers, stimuli-responsive polymers, polymeric hydrogels, and current and future application of polymers in medicine. (3-0) Y