

Courses that Fulfill the BME MS Degree with Focus in Nanomedicine Electives Requirement

Grades of C– or lower are not acceptable. Students may petition for a different course (500-level or higher) to count towards the Nanomedicine Electives Requirement, subject to approval by the BME Graduate Committee.

ENG BE 504 Polymers and Soft Materials
ENG BE 511, Biomedical Instrumentation
ENG BE 515 Introduction to Medical Imaging
ENG BE 517 Optical Microscopy of Biological Materials
ENG BE 526/726 Fundamentals of Biomaterials
ENG BE 527/727 Principles and Applications of Tissue Engineering
ENG BE 535 Cell Mechanics
ENG BE 549 Structure and Function of the Extracellular Matrix
ENG BE 560 Biomolecular Architecture
ENG BE 565 Molecular Biotechnology
ENG BE 566 DNA Structure and Function
ENG BE 569 Next Generation Sequencing
ENG BE 765 Biomedical Optics and Biophotonics
CAS BI 551 Biology of Stem Cells
CAS BI 576 Carcinogenesis
GRS CH 629 DNA Nanotechnology
ENG EC 577 Electrical, Optical and Magnetic Properties of Materials
ENG EC 777 Nano-Optics
ENG ME 555 MEMS: Fabrication and Materials
ENG ME 528 Biological Physics
ENG ME 546 Introduction to Micro/Nanofluidics
ENG ME 579 Nano/Microelectronic Device Technology
GMS BT 520 Biology of Cancer