Advanced Engineering Electives

3000-5000 level engineering course with clear biomedical engineering application. Students need to pick from this list or use other courses, if approved by the Biomedical Engineering curriculum committee, to satisfy this requirement.

BME 4900: Independent Study – Credits will vary

Students are asked to prepare this plan in consultation with their project supervisor, whose approval verifies that the planned effort justifies the number of proposed credits. Click here for the MODE: this is a fillable form. It may be necessary to open it in a different program for full functionality. After the form is completed, it should be submitted to Dr. Ian Schneider at ians@iastate.edu or at 2035 Sweeney Hall. No more than 3 cr. of 4900 credit may be applied to this minor.

CHE 4400 / BME 4400: Biomedical Applications of Chemical Engineering

EE 3410 / BME 3410: BioMEMs and Nanotechnology

EE 4500 / BME 4500: Biosensors

EE 5410: Biomedical Optical Imaging and Spectroscopy

IE 4470 / BME 4470: Biomedical Design and Manufacturing

IE 5710: Occupational Biomechanics

MATE 4560 / BME 4560: Biomaterials

ME 5500: Advanced Biosensors: Fundamentals and Applications