Professional Electives

3000-5000 level engineering or life sciences course with clear biomedical engineering application OR BME 4900 OR departmental 4900 with biomedical engineering topic OR 2000+-level life sciences laboratory course (If a 2000-level course is chosen here, the student will need to meet the required 6 cr. of 3000+ courses by substitution of a higher-level course for the other requirements or by taking an additional course.), OR 3000-5000 level BME courses. Students need to pick from this list or use other courses, if approved by the Biomedical Engineering curriculum committee, to satisfy this requirement.

Labs and Methods

BIOL 2120L: Principles of Biology Laboratory II

BIOL 2560L: Fundamentals of Human Physiology Laboratory

BIOL 3350L: Principles of Human and Other Animal Physiology Laboratory

BMS 5020: Methods in Biomedical Sciences

Homeostasis

FSHN 3650: Obesity and Health

FSHN 5890: Systems Neuroscience: Brain, Behavior, and Nutrition-Related Integrative Physiology

KIN 3550: Biomechanics

KIN 3580: Exercise Physiology

KIN 3630: Basic Electrocardiography

KIN 4800: Functional Anatomy

Therapeutic Action

BMS 4390: Principles of Pharmacology

Enabling Biology

BBMB 4050: Biochemistry II

BIOL 3130 / GEN 3130: Principles of Genetics

BIOL 3140: Principles of Molecular Cell Biology

BIOL 3500: Comprehensive Human Anatomy

BIOL 4360: Neurobiology

BMS 4470: Introduction to Human Gross Anatomy

Disease Bases

BIOL 3280: Molecular and Cellular Biology of Human Diseases

TOX 4010: Principles of Toxicology

VPTH 3530 / BIOL 3530 / MICRO 3530: Introductory Parasitology

VPTH 4020 / BIOL 4020: Introduction to Pathology

VMPM 5010: Basic Principles of Microbiology