

# COURSE LISTS

## Biomedical Engineering Electives (BME Electives)

Code	Title	Credit Hours
BME/AME 5213	Biomechanics I	3
BME 5233	Biomaterials	3
BME/CH E 5243	Biochemical Engineering	3
BME/CH E 5293	Transport in Biological Systems	3
BME/CH E 5373	Tissue Engineering	3
BME 5413	Nanomedicine	3
BME/AME 5970	Special Topics/Seminar (Intro to Medical Device Design)	1-3
BME 5533	Neural Engineering	3
BME 5283	ImmunoEngineering	3
BME 5113	Special Topics in Cancer	3
BME 5990	Independent Study (limit 3 hours)	1-3
BME 5971	Seminar in Biomedical Engineering Research (limit 3 hours)	1
ECE 4823	Engineering Principles of the Human Body	3
ECE 5843	Medical Imaging Systems	3
ECE/BME 5853	Biomedical Signals and Systems	3
ECE 5973	Special Topics in Electrical and Computer Engineering	3
ECE/BME 6213		3
ECE 6813	Advanced Topics in Biomedical Engineering	3

## Life Sciences Electives

Code	Title	Credit Hours
CHEM 3653	Introduction to Biochemistry	3
CHEM 5291	Seminar in Biochemistry	1
CHEM 5260	Special Topics in Biochemistry I	1-3
HES 5823	Exercise Physiology	3
HES 5833	Advanced Exercise Physiology Laboratory	3
HES 5863	Physiology of Aging	3
MBIO 4833	Basic Immunology	3
MBIO 5620	Investigations in Microbiology	1-6
MBIO 5843	Molecular Biology	3
MBIO 5971	Seminar in Microbiology	1
BIOL 3101	Principles of Physiology Lab	1
BIOL 3103	Principles of Physiology	3
BIOL 3333	Genetics	3
BIOL 4913	Quantitative Biology	3
BIOL 5364	Transmissn Electron Microscopy	4
BIOL 5374	Scanning Electron Microscopy	4
BIOL 5871	Current Topics in Neurobiology	1
BIOL 5893	Behavioral Neurobiology	3
PSY 4253	Selected Topics in Cognitive Science	3
PSY 4920	Current Topics in Basic and Applied Psychology	1-3

## Additional Science, Engineering, and Math Electives (STEM Electives)

Code	Title	Credit Hours
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Open list, but courses in this category should NOT be those in the lists for BME or Life Sciences electives.

- According to the Graduate College requirement, only courses that carry graduate credit are counted toward graduate study programs. When enrolling in courses cross-listed for both undergraduate and graduate sections, make sure to enroll in the graduate section. If a course no longer offers graduate credit, please do not enroll, and contact the departmental program assistant for help.
- The lists here only indicate the courses that are allowed to be counted toward each course category for the graduate programs of study. They do not necessarily indicate that any combination of them is a valid graduate program of study. Check out the degree requirements at both Graduate College and the Stephenson School of Biomedical Engineering.
- Courses in other engineering disciplines and outside of engineering will require a permission override from the course department. Contact the departmental program assistant for an override.