



GRADUATE PROGRAM ELECTIVES COURSE LIST

According to the Graduate College Bulletin, Section 5.1, 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. This list only indicates the courses that can be counted toward each course category for the M.S. Programs of Study (POS) or the Ph.D. Advisory Conference Report (ACR). They do not necessarily indicate that any combination of them is a valid graduate program of study. Please check the degree requirements at both the Graduate College and the Stephenson School of Biomedical Engineering.

Biomedical Engineering (BME) Electives

- Page 2 and 3 of “[SBME Undergraduate Pre-Approved Electives](#)”

Life Science Courses

- BIOL G4533 Basic Immunology (F)
- BIOL G4913 Quantitative Biology (F)
- BIOL 5364 Transmission Electron Microscopy (F)
- BIOL 5374 Scanning Electron Microscopy (*)
- BIOL 5833 Neurobiology (F)
- BIOL 5843 Molecular Biology (F, S)
- BIOL 5863 Neural Control of Movement (S)
- BIOL 5871 Current Topics in Neurobiology (F, S)
- BIOL 5893 Behavioral Neurobiology (F)
- CHEM 5200 Principles of Biochemistry (F, S)
- CHEM 5260 Special Topics in Biochemistry I or II (*)
- CHEM 5291 Seminar in Biochemistry (F, S)
- HES 5823 Exercise Physiology (F)
- HES 5833 Advanced Exercise Physiology Lab (S)
- HES 5863 Physiology of Aging (F)
- MBIO G4883 Water Microbiology Laboratory (F, S, SU)
- MBIO/BIOL/PBIO 5394 Advanced Light Microscopy (F)
- MBIO 5620 Investigations in Microbiology (F, S, SU)
- MBIO 5843 Molecular Biology (F, S)
- MBIO 5971 Seminar in Microbiology (F, S)
- PSY G4253 Perceptual and Cognitive Neuroscience (*)

Additional Science, Engineering, and Math (STEM) Electives

- Open list
 - MUST be a Graduate Level Course (i.e., G3/4000, 5000, 6000)
 - Cannot be used to satisfy both STEM and [BME and/or Life Sciences Electives](#) requirements.

Key: (S) Spring, (SU) Summer, (F) Fall, (*) Infrequent Offerings

Note: Graduate students who complete MBIO/BIOL 5364, 5374, and 5394, along with 3 credit hours of qualifying research credit that utilize microscopy imaging and technology may be eligible for a Graduate Certificate in Microscopy Imaging and Technology. This is NOT a program associated with SBME. Please contact the Graduate College and the School of Biological Sciences for more information.