



GALLOGLY COLLEGE OF ENGINEERING  
**STEPHENSON SCHOOL  
OF BIOMEDICAL ENGINEERING**  
*The UNIVERSITY of OKLAHOMA*

## 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 of [SBME Pre-Approved Electives](#)

### Life Science Courses

- CHEM G3653 Introduction to Biochemistry (F)
- CHEM G5853 Principles of Biochemistry II (S)
- CHEM 5291 Seminar – Biochemistry (F, S)
- CHEM 5260 Special Topics in Biochemistry I or II\*\*\*
- HES G5823 Exercise Physiology (F)
- HES G5833 Advanced Exercise Physiology Lab (S)
- HES G5863 Physiology of Aging (F)
- MBIO G4833 Basic Immunology (S)
- MBIO G5620 Investigations in Microbiology (F, S, SU)
- MBIO G5843 Introduction to Molecular Biology (F, S)
- MBIO G5971 Seminar in Microbiology (F, S)
- BIOL G3101 Principles of Physiology Lab (F, S)
- BIOL G3103 Principles of Physiology (F, S)
- BIOL G3333 Genetics (F, S)
- BIOL G4913 Quantitative Biology (F)
- \*BIOL G5364 Transmission Electron Microscopy (F)
- \*BIOL G5374 Scanning Electron Microscopy\*\*\*
- \*MBIO/BIOL 5394 Advanced Light Microscopy (F)
- MBIO 5620 Water Microbiology (F, S, SU)
- BIOL 5863 Neural Control of Movement (S)
- BIOL 5871 Current Topics in Neurobiology (F, S)
- BIOL 5893 Behavioral Neurobiology (F)
- PSY 4253 Perceptual and Cognitive Neuroscience\*\*\*

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

- Open list. However, the courses in this category should NOT be those in the lists for BME and/or Life Sciences Electives.

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.