APPROVED BIOMEDICAL ENGINEERING GRADUATE PROGRAM LIFE SCIENCES COURSES

BY 540 – Biology of Aging
BY 614 – Advanced Cell Biology
BY 616 – Cellular Physiology
BY 629 – Evolution
BY 633 – Advanced Molecular Genetics
BY 640 - Immunology
BY 645 – Cancer Biology
BY 696 – Special Topics In Biology II
CH 560 – Fundamentals of Biochemistry
CH 564 – Physical Biochemistry Lab
CH 660 – Fundamentals of Biochemistry
CH 671 – Medchem/Drug Discovery
CH 760 – Fundamentals of Biochemistry
GBS 707 – Basic Biochem/Metabolism
GBS 708 – Basic Genetics/Mole Bio
GBS 709 – Basic Bio Organization
GBS 710 – Cell Signaling
GBS 712 – Cellular & Molecular Aspects of Dev. Biology
GBS 715 – Skeletal Development & Disease
GBS 722 – Bioinformatics (GGB)
GBS 731 – Principles of Cellular Neuroscience
GBS 732 – Advanced Study in Renal Physiology
GBS 748 – Fundamentals of Kidney Physiology
GBS 754 – Autophagy in Disease & Med

Updated 08/02/2021
GBS 757 – Biology of Disease
GBS 769 – Carcinogenesis
GBS 770 – Cancer 1 – Pathogenesis/Bio
GBS 774 – Cancer Immunology
GBS 780 – BSB Lab Methods
GBS 784 - Stem Cell Biology
GBSC 710 – Advanced Chromatin Biology
GBSC 715 – Molecular Basis of Disease
GBSC 735 – Discoveries in Mol Bio
INFO 601/701 – Introduction to Bioinformatics
NBL 700 – Introduction To Cellular & Molecular Neurobiology
NBL 712 – Graduate Medical Neuroscience
NBL 743 – Methods In Neuroimaging
ORB 622 – Connective Tissue & Bone
PAT 700 – Biology of Disease
PAT 701 – Molecular/Cell Mechanisms of Disease
PH 587 – Nanoscale Science & Appl
PHR 750 – Pharmacology I
PHR 751 – Pharmacology II
PHY 790 – Cell Interactions With Biomaterials
PY 751 – Human Psychopharmacology
PY 753 – Overview Behavioral Neuroscience
PY 787 – Dynamics of Pain
VIS 613 – Visual Neuroscience
VIS 744 – Ocular Anatomy: Physiology/Biochemistry

Updated 08/02/2021
VIS 746 – Retina/Subcortical Systems
VIS 747 – Central Visual Mechanisms

*Please note that three hours of a Life Sciences course(s) is required for the M.S. and Ph.D. Degrees. For students entering the Ph.D. program with a B.S., six hours of Life Sciences courses are required. If one of the above courses is less than the required three hours, it must be combined with another course(s) in order to satisfy the three-hour requirement.

*The above list includes previously approved Life Sciences courses. If you wish to take another Life Sciences course not on the list, you may submit the course, along with a brief justification, to the Biomedical Engineering Graduate Program Director, who will submit the course to the BME Graduate Program Committee for approval.