

## **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

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.**