Appendix C: List of currently approved elective courses

All courses mentioned in this handbook are approved elective courses independent of the selected track. This table summarizes these courses by department.

DEPARTMENT	COURSE #	COURSE TITLE
ANATOMY	6700	HUMAN HISTOLOGY
BIOCHEMISTRY	4511	INTRODUCTION TO BIOLOGICAL CHEMISTRY
BIOCHEMISTRY	5613	BIOCHEMISTRY AND MOLECULAR BIOLOGY I
BIOCHEMISTRY	5614	BIOCHEMISTRY AND MOLECULAR BIOLOGY II
BIOCHEMISTRY	5615	BIOCHEMISTRY AND MOLECULAR BIOLOGY III
BIOCHEMISTRY	5621	BIOCHEMISTRY AND MOLECULAR GENETICS LABORATORY
BIOCHEMISTRY	5701	DNA TRANSACTIONS AND GENE REGULATION
BIOCHEMISTRY	5721	PHYSICAL BIOCHEMISTRY I - THERMODYNAMICS
BIOCHEMISTRY	5722	PHYSICAL BIOCHEMISTRY II - KINETICS, DIFFUSION, ETC.
BIOCHEMISTRY	5735	PLANT BIOCHEMISTRY
BIOCHEMISTRY	6701	Advanced Biochemistry: Molecular Biology
BIOCHEMISTRY	6706	Advanced Biological Chemistry Lab
BIOCHEMISTRY	6761	MACROMOLECULAR STRUCTURE & FUNCTION - NUCLEIC ACIDS
BIOCHEMISTRY	6762	ENZYMES
BIOCHEMISTRY	6763	MEMBRANES AND BIOENERGETICS/LIPIDS
BIOCHEMISTRY	6765	PHYSICAL BIOCHEMISTRY
BIOCHEMISTRY	7770	PROTEIN ENGINEERING
BIOCHEMISTRY	8821	ADVANCED ENZYMOLOGY
BIOCHEMISTRY	8900	BIOMOLECULAR NMR
BIOCHEMISTRY	8990	**Advanced Topics in Biochemistry:**
BIOMEDICAL ENGINEERING	5001	Cardiovascular Bioengineering
BIOMEDICAL ENGINEERING	5110	BIOMEDICAL MICROSCOPIC IMAGING
BIOMEDICAL ENGINEERING	5186	INTRODUCTION TO BIOMEDICAL ULTRASOUND
BIOMEDICAL ENGINEERING	5210	ADVANCED BIOLOGICAL TRANSPORT

BIOMEDICAL ENGINEERING	5352	SOFT TISSUE BIOMATERIALS
BIOPHYSICS	6702	ADVANCED EXPERIMENTAL METHODS IN BIOPHYSICS
BIOPHYSICS	6702	TOPICS IN BIOPHYSICS - BIOINFORMATICS
CHEMISTRY	5420	ORGANIC SPECTROSCOPY
CHEMISTRY	6510	QUANTUM MECHANICS AND SPECTROSCOPY
CHEMISTRY	6520	PHYSICAL CHEMISTRY - THERMODYNAMICS
CHEMISTRY	6530	KINETICS
CHEMISTRY	7120	Electrochemistry
CHEMISTRY	7220	BIOORGANIC CHEMISTRY OF ENZYMES AND CATALYSIS
CHEMISTRY	7440	KINETICS, CATALYSIS, AND TRANSITION STATE THEORY
CHEMISTRY	7470	COMPUTATIONAL CHEMISTRY
CHEMISTRY	7520	Advanced Molecular Quantum Mechanics and Spectra
CHEMISTRY	7530	SPECTRA AND STRUCTURE OF MOLECULES
CHEMISTRY	7540	CHEMICAL DYNAMICS
CHEMISTRY	7550	STATISTICAL THERMODYNAMICS
COMPUTER SCIENCE AND ENGINEERING	3903	Project: Design, Development, and Documentation of System Software
COMPUTER SCIENCE AND ENGINEERING	5052	Survey of Artificial Intelligence for Non-Majors
COMPUTER SCIENCE AND ENGINEERING	5241	Introduction to Database Systems
COMPUTER SCIENCE AND ENGINEERING	5321	INTRODUCTION TO FORMAL LANGUAGES AND AUTOMATA
COMPUTER SCIENCE AND ENGINEERING	5331	Foundations II:
COMPUTER SCIENCE AND ENGINEERING	5361	NUMERICAL METHODS
COMPUTER SCIENCE AND ENGINEERING	5542	Real-Time Rendering
COMPUTER SCIENCE AND ENGINEERING	5543	GEOMETRIC MODELING
COMPUTER SCIENCE AND ENGINEERING	5545	Advanced Computer Graphics

COMPUTER SCIENCE AND ENGINEERING	5559	Intermediate Studies in Computer Graphics
COMPUTER SCIENCE AND ENGINEERING	6321	COMPUTABILITY AND COMPUTATIONAL COMPLEXITY
COMPUTER SCIENCE AND ENGINEERING	6333	DISTRIBUTED ALGORITHMS
ELECTRICAL & COMPUTER ENGINEERING	3027	ELECTRONICS LAB
ELECTRICAL & COMPUTER ENGINEERING	3557	CONTROL SYSTEMS LABORATORY
ELECTRICAL & COMPUTER ENGINEERING	5011	Antennas
ELECTRICAL & COMPUTER ENGINEERING	5131	LASERS
ELECTRICAL & COMPUTER ENGINEERING	5200	INTRODUCTION TO DIGITAL SIGNAL PROCESSING
ELECTRICAL & COMPUTER ENGINEERING	5206	Medical Imaging and Processing
ELECTRICAL & COMPUTER ENGINEERING	5460	DIGITAL IMAGE PROCESSING
ELECTRICAL & COMPUTER ENGINEERING	5551	State-Space Controls Systems
ELECTRICAL & COMPUTER ENGINEERING	6010	ELECTROMAGNETIC FIELD THEORY I
ELECTRICAL & COMPUTER ENGINEERING	7866	COMPUTER VISION
HORTICULTURE AND CROP SCIENCE	7003.02	AGRICULTURAL GENOMICS: PRINCIPLES AND APPLICATIONS

BSGP	7050	BIOINFORMATICS APPLIED TO HUMAN DISEASE
BSGP	7300	BIOMEDICAL INFORMATICS I
BSGP	7310	BIOMEDICAL INFORMATICS II
MATHEMATICS	2568	INTRODUCTORY LINEAR ALGEBRA
MATHEMATICS	5101	LINEAR MATHEMATICS IN FINITE DEMENSIONS
MATHEMATICS	8650	TOPICS IN MATHEMATICAL BIOLOGY
MICROBIOLOGY	4100	GENERAL MICROBIOLOGY
MICROBIOLOGY	4130	GENOMICS, PROTEOMICS, MICROBIAL TOPICS
MICROBIOLOGY	5161H	BIOINFORMATICS AND MOLECULAR MICROBIOLOGY
MOLECULAR GENETICS		GENERAL GENETICS
MOLECULAR GENETICS	5607	CELL BIOLOGY
MOLECULAR GENETICS	5643	PLANT ANATOMY
MOLECULAR GENETICS	5705	ADVANCES IN CELL BIOLOGY
MOLECULAR GENETICS	5733	ADVANCED HUMAN GENETICS
MOLECULAR GENETICS	5630	PLANT PHYSIOLOGY
BIOLOGICAL CHEMISTRY AND PHARMACOLOGY	6761	ADVANCED BIOCHEMISTRY: PROTEINS AND MACROMOLECULAR STRUCTURES
BIOLOGICAL CHEMISTRY AND PHARMACOLOGY	6762	ADVANCED BIOCHEMISTRY, ENZYMES
BIOLOGICAL CHEMISTRY AND PHARMACOLOGY	6785	DNA MICROARRAY TECHNOLOGY
BIOLOGICAL CHEMISTRY AND PHARMACOLOGY	7823	CONTROL OF CELL GROWTH AND PROLIFERATION
BIOLOGICAL CHEMISTRY AND PHARMACOLOGY	7831	EUKARYOTIC GENOME: STRUCTURE AND EXPRESSION
BIOLOGICAL CHEMISTRY AND PHARMACOLOGY	7781	ANIMAL MODELS OF HUMAN DISEASE

MOLECULAR VIROLOGY, IMMUNOLOGY & MEDICAL GENETICS	8040	MASS SPECTOMETRY AND PROTEOMICS (DO NOT SEE OFFERED)
NEUROSCIENCE	7001	FOUNDATIONS OF NEUROSCIENCE I - MOLECULAR AND CELLULAR NEUROBIOLOGY AND NEUROPHYSIOLOGY
NEUROSCIENCE	7002	FOUNDATIONS OF NEUROSCIENCE II
PHARMACY	5160	MEDICAL APPLICATIONS OF RADIONUCLIDES AND RADIOPHARMACEUTICALS
PHARMACY	7350	DRUG DISCOVERY AND DRUG DESIGN
PHARMACY	8020	ADVANCED PHARMACOKINETICS
PHARMACY	8080	PHARMACOKINETIC-PHARMACODYNAMIC MODELS
PHARMACY	8380	ADVANCED MEDICINAL CHEMISTRY: STRUCTURE-BASED COMPUTER-AIDED MOLECULAR DESIGN
PHYSICS	4700	INTRODUCTORY ELECTRONICS FOR PHYSICISTS
PHYSICS	5400	Intermediate Electricity and Magnetism
PHYSICS	5500	QUANTUM MECHANICS
PHYSICS	5700	ADVANCED PHYSICS LAB
PHYSICS	5701	ELECTRONICS FOR PHYSICISTS
PHYSICS	6809	TOPICS IN BIOPHYSICS
PHYSICS	7601	CLASSICAL AND STATISTICAL PHYSICS I
PHYSICS	7602	CLASSICAL AND STATISTICAL PHYSICS II
PHYSICS	7603	ADVANCED STATISTICAL PHYSICS
PHYSICS	7891	BIOPHYSICS SEMINAR SERIES
PHYSICS	8809.01	SPECIAL TOPICS IN BIOPHYSICS
PHYSIOLOGY AND CELL BIOLOGY	6101	ADVANCED HUMAN PHYSIOLOGY I
PHYSIOLOGY AND CELL BIOLOGY	6102	ADVANCED HUMAN PHYSIOLOGY II
PHYSIOLOGY AND CELL BIOLOGY	7931	INDIVIDUAL STUDIES
PLANT PATHOLOGY	7003.01	AGRICULTURAL GENOMICS: PRICIPALS AND APPLICATIONS

PSYCHOLOGY	7695.08	BEHAVIORAL NEUROSCIENCE (SURVEY IN BN)
PSYCHOLOGY	7898	ADVANCED SEMINAR IN BEHAVIORAL NEUROSCIENCE
RADIOLOGICAL SCIENCES & THERAPY	4670	RADIATION BIOLOGY ONLY OFFED AT UGRAD LEVEL)
RADIOLOGICAL SCIENCES & THERAPY	8814	ADVANCED MAGNETIC RESONANCE IMAGING AND SPECTROSCOPY COULD NOT FIND COURSE
STATISTICS	2480	STATISTICS FOR THE LIFE SCIENCES
STATISTICS	3201	INTRODUCTION TO PROBABILITY FOR DATA ANALYTICS
STATISTICS	4201	INTRODUCTION TO MATHEMATICAL STATISTICS I
STATISTICS	4202	INTRODUCTION TO MATHEMATICAL STATISTICS II
STATISTICS	6201	MATHEMATICAL STATISTICS
STATISTICS	6410	DESIGN AND ANALYSIS OF EXPERIMENTS
STATISTICS	6450	APPLIED REGRESSION ANALYSIS
VETERINARY BIOSCIENCES	6640	FUNDAMENTALS OF ONCOLOGY
VETERINARY BIOSCIENCES	7792	PROTOTYPICAL CARDIOVASCULAR DISEASE
VETERINARY BIOSCIENCES	7790	ELECTROCARDIOGRAPHY