Approved List of Advanced Technical Elective Courses – rev. Fall 2016

Excluded courses:  MCB 436 – 1 credit hr. – Global Biosecurity
MCB 434 (FSHN 471) - Food & Industrial Microbiology

APPROVED MCB/BIOC Courses
MCB 300  Microbiology
MCB 301  Experimental Microbiology
MCB 314  Introduction to Neurobiology (NEUR 314)
MCB 316  Genetics and Disease
MCB 320  Mechanisms of Human Disease
MCB 400  Cancer Cell Biology
MCB 401  Cell and Membrane Physiology
MCB 402  Systems and Integrative Physiology
MCB 403  Cell and Membrane Physiology Laboratory
MCB 404  Systems and Integrative Physiology Laboratory
MCB 408  Immunology
MCB 410  Developmental Biology
MCB 413  Endocrinology
MCB 419  Brain, Behavior & Info Process (BIOP 419, NEUR 419)
MCB 421  Microbial Genetics
MCB 424  Microbial Biochemistry
MCB 426  Bacterial Pathogenesis
MCB 428  Bacterial Pathogens Laboratory
MCB 431  Microbial Physiology
MCB 432  Computing in Molecular Biology
MCB 433  Virology & Viral Pathogenesis (PATH 433)
MCB 435  Microbial Ecology and Evolution
MCB 442  Comparative Immunobiology (ANSC 450, PATH 410)
MCB 461  Cellular & Molecular Neuroscience (NEUR 461)
MCB 462  Integrative Neuroscience (NEUR 462)
MCB 471  Advanced Cell biology
MCB 481  Developmental Neurobiology (NEUR 481)
MCB 508  Intro to systems Neuroscience (PSYC 508)
BIOC 492  Senior Thesis (no more than 7 hours applied to tech elects)

Non-MCB Courses
BIOE 461  Cellular Biomechanics (TAM 461)
BIOP 401  Introduction to Biophysics
BIOP 432  Photosynthesis (IB 421, CPSC 489)
CB 467  Fundamental Pharm Disc & Devel
CHBE 471  Biochemical Engineering
CHBE 472  Techniques in Biomolecular Engr.
CHBE 473  Biomolecular Engineering
CHBE 475 Tissue engineering
CHEM 312  Inorganic Chemistry
CHEM 437 Organic Chem II Lab
CHEM 438 Advanced Organic Chemistry
CHEM 474 Drug Discovery and Development
CHEM 480 Polymer Chemistry (MSE 457)
CHEM 482 Polymer Physical Chemistry (MSE 458)
CHEM 492 - topics
CHEM 534 Advanced Organic Synthesis
CS  466 Introduction to Bioinformatics
IB 302 Evolution
IB 360 Evolution and Human Health (ANTH 360)
IB 361 Ecology and Human Health (ANTH 361)
IB 364 Bioinformatics and the Human Genome
IB 402 Molecular Evolution
IB 420 Plant Physiology (CPSC 484)
IB 424 Plant Development
IB 426 Env. and Evol. Physl. of Animals
IB 432 Genes and Behavior
IB 445 Chemical Ecology
IB 485 Environmental Toxicology & Health (CHLH 461, ENVS 431)
IB 487 Math Modeling in Life Sciences (ANSC 448, STAT 458)
MATH 415 Applied Linear Algebra
MATH 453 Elementary Theory of Numbers
PHYS 404 Electronic Circuits
PHYS 420 Space Time & Matter (PHIL 420)
PSYC 403 Memory and Amnesia (NEUR 403)
PSYC 413 Psychopharmacology (NEUR 413)
PSYC 417 Neuroscience of Eating and Drinking
STAT 400 Statistics & Probability I (MATH 463)
STAT 420 – Method of Applied Statistics
STAT 430 – Topics of Applied Statistic (check sections)
STAT 551 Theory of Probability I (MATH 561)