

BIOMED OPTION ELECTIVES

A minimum of 15 of these credits must be from the following list:

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| BIOB 476R | Gene Construction | 3 | F |
| BIOB 494 | CBN Seminar/Workshop | 1 | F/S |
| BIOH 201 | Human Anatomy and Physiology I | 5 | S/Su |
| BIOH 211 | Human Anatomy and Physiology II | 4 | F |
| BIOH 313 | Neurophysiology | 3 | F |
| BIOH 323 | Developmental Biology | 4 | S |
| BIOH 340 | Principles of Histology | 3 | F |
| BIOL 395 | Human Pathophysiology | 3 | S |
| BIOH 411 | Advanced Human Anatomy | 4 | S |
| BIOH 422 | Genes and Cancer | 3 | F |
| BIOH 425 | Sensory Neurophysiology | 3 | S |
| BIOH 435 | Cognitive Neuroscience | 3 | S |
| BIOH 440 | Neuroscience of Mental Illness | 3 | F |
| BIOH 455 | Molecular Medicine | 3 | S |
| BIOL 409 | Advanced Human Torso Anatomy | 4 | Su |
| BIOL 470 | Independent Study | 1-3 | F/S/Su |
| BIOL 490R | Undergraduate Research | 1-6 | F/S/Su |
| BIOO 310 | Comparative Vertebrate Anatomy | 4 | S |
| BIOO 412 | Animal Physiology | 3 | F |

A maximum of 9 credits may be from the following list:

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| ANTH 306 | Forensic Anthropology |
| BCH 441 | Biochemistry of Macromolecules |
| BCH 442 | Metabolic Regulation |
| BCH 444 | Biochemical & Molecular Biology Methods |
| BIOB 410 | Immunology |
| BIOB 412 | Hybridomas |
| BIOB 413 | Flow Cytometry |
| BIOB 414 | Advanced Microscopy |
| BIOB 415 | Advanced Immunology |
| BIOB 424 | Ethical Practice of Science |
| BIOB 428 | Molecular Evolution |
| BIOB 430 | Plant Biotechnology |
| BIOB 475 | Genome Science |
| BIOB 478 | Functional Gene Expression |
| BIOB 480 | Conservation Genetics |
| BIOE 370 | General Ecology |

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| BIOE 440 | Conservation Biology |
| BIOH 405 | Hematology |
| BIOM 250 | Microbiology for Health Sciences |
| BIOM 360 | General Microbiology |
| BIOM 400 | Medical Microbiology |
| BIOM 410 | Microbial Genetics |
| BIOM 415 | Microbial Diversity, Ecology & Evolution |
| BIOM 427 | General Parasitology |
| BIOM 430 | Applied and Environmental Microbiology |
| BIOM 431 | Medical Bacteriology |
| BIOM 435 | Virology |
| BIOM 441 | Eukaryotic Pathogens |
| BIOM 450 | Microbial Physiology |
| BIOO 265 | Functional Anatomy of Domestic Animals |
| BIOO 433 | Plant Physiology |
| BIOO 458 | Plant Cell Physiology |
| BIOO 460 | Plant Metabolism |
| CHMY 361 | Elements of Physical Chemistry |
| CHMY 362 | Physical Chemistry Lab |
| CLS/US 460 | Teaching Internship |
| CSCI 451 | Computational Biology |
| CSCI 477 | Simulation |
| HDFN 221 | Human Nutrition |
| HDFN 321 | Life Cycle Nutrition |
| HDFN 411 | Nutrition for Sports and Exercise |
| HDHL 230 | Drugs and Society |
| HDHL 240 | Human Sexuality |
| HDHL 440 | Principles of Epidemiology |
| HDPE 320 | Anatomical Kinesiology |
| HDPE 322 | Exercise Physiology |
| HDPE 323 | Biomechanics |
| M 273 | Multivariable Calculus |
| M 274 | Introduction to Differential Equations |
| M 348 | Techniques of Applied Mathematics I |
| M 349 | Techniques of Applied Mathematics II |
| PHL 236 | Logic |
| PHL 242 | Science, Pseudo-Science and Subjectivity |
| PHL 321 | Philosophy and Biomedical Ethics |
| PHL 345 | Philosophy of Science |
| PHSX 446 | Thermodynamics and Statistical Mechanics |
| PSYX 223 | Research Design and Analysis I |
| PSYX 225 | Research Design and Analysis II |
| PSYX 230 | Developmental Psychology |
| PSYX 325 | Applied Critical Thinking |
| PSYX 335 | Psychology of Women |

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| PSYX 340 | Abnormal Psychology |
| PSYX 350 | Physiological Psychology |
| PSYX 354 | Sensation & Perception |
| PSYX 370 | Learning and Motivation |
| PSYX 380 | Memory and Cognition |
| PSYX 384 | Consciousness |
| PSYX 482 | Psycholinguistics |
| SOCI 380 | Sociology of Health & Medicine |
| STAT 332 | Statistics for Scientists & Engineers |
| STAT 401 | Statistics for Researchers |
| STAT 410 | Applied Multiple Regression |
| STAT 412 | Analysis of Variance & Design of Experiments |
| STAT 420 | Probability |

4) 490s from the following departments will be accepted: Cell Biology & Neuroscience, Biochemistry, Chemistry, Animal and Range Science, Plant Science, Psychology, Microbiology, Undergraduate Scholars Program and Veterinary Molecular Biology.

5) If a student would like an elective NOT listed to be approved as one of their electives toward fulfillment of requirements for the CBN major, they should write up a brief (i.e. one paragraph) explanation of why the course is applicable to the major. This will be submitted to Lisa in the CBN department office and will be reviewed by a faculty committee for approval. This is to ensure uniformity in enforcement of electives.