Old Major Requirements

MA 17 ABC or 21AB
CHE 2ABC
CHE 118 ABC or 8AB
PHY 7ABC
BIS 2ABC
BIS 101, 104
BIS 105 or 102 & 103 NPB 100,101,102
NPB lab
12 units of NPB electives
Evolution class
STA 100

Eliminated Requirement

Evolution Class: The Old Major requires students to take one of the following: GEL 107, EVE 100 or ANT 151.

Core Requirements Changed

NPB 110 ABC have replaced NPB 100 101 102 as the core NPB requirements for the New Major. The behavior (NPB 102) & cell biology (BIS 104) elements of the Old Major are now covered in NPB 110A.

NPB 110 A, B & C are each 5 units and 110A must be taken before B or C.

1.) NPB 110A: From Molecules to Individuals
   - Prerequisites: BIS 2ABC & CHE 2/3 ABC.

2.) NPB 110B: Neurobiology
   - Prerequisites: NPB 110A.
   - Will suffice as a prerequisite for any course requiring 100

3.) NPB 110C: Physiology
   - Prerequisites: NPB 110A & PHY 7A.
   - Will suffice as a prerequisite for any course requiring 101

New Major Requirements

MA 17 ABC or 21AB
CHE 2ABC or CHE3ABC
CHE 118 ABC or 8AB
PHY 7ABC
BIS 2ABC
BIS 101
BIS 105 or 102 & 103
NPB 110 ABC
NPB lab (track specific)
3 track elective courses
1 extra elective
STA 100

Eliminated Requirement

BIS 104: No longer required

New Core Courses: Descriptions & Details

NPB 110A description: Major concepts in cell biology with special emphasis on connections between cell biology and behavior. Includes: cellular metabolism, cellular sensing and signaling, membrane structure-function, molecular switches, electrical and chemical signaling, endocrine signaling, cell cycle and differentiation, cytoskeleton, and integrative examples. **Only 3 units of credit if you took BIS 104.**

This is the first course in the series.

This must be taken after 110A, but not necessarily before 110C. This will be the prerequisite for many Neuro electives (including 100L).

NPB 110B description: Core concepts of neurobiology including single-neuron biophysics, synapses and transmitters, neuronal development, motor systems, central pattern generation, neuronal circuits, intracellular signal transduction, sensory processing, multisensory integration, autonomic nervous system, neuromodulation, learning and memory, and higher cognition and disease. **Only 2 units of credit if you took NPB 100.**

NPB 110C description: Focuses on the structure, function, and interactions of animal organ systems in homeostasis and reproduction, and the response to perturbations of homeostasis; neural and endocrine signaling; skeletal muscle and movement; cardiovascular and respiratory systems; renal, digestive, immune, and reproductive physiology. **Only 2 units of credit if you took NPB 101.**

This must be taken after 110A, but not necessarily after 110B. This will be the prerequisite for many Physio electives (including 101L). You need to complete PHY 7A before taking this class. This is recommended to complete before taking the MCAT for understanding of physiology.

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