REVISED course requirements

Prerequisites:
One year of calculus: MAT 102 and 104 or MAT 103 and MAT 104
One semester of statistics can be substituted for a semester of calculus: ORF 245 or MOL/EEB 355 (but not PSY 251)
Higher math can also be substituted for calculus: MAT 201, 202, 203, or 204
Advanced placement credit for math is assessed according to the standards of the Math Department
[Note: No molecular biology prerequisite]

Requirements:
NEU/PSY 258 Fundamentals of Neuroscience (Fall) (Ghazanfar, now Graziano)
NEU/PSY 259 Introduction to Cognitive Neuroscience (Spring) (Niv or Botvinick)
[Note: No NEU/MOL 408 requirement]

Three electives sampled from at least two of the areas below:

Molecular Mechanisms and Disease
PSY 407 Sleep: From Molecules to Mattress (Jacobs)
PSY/NEU 410 Depression: from Neuron to Clinic (Jacobs)
MOL/NEU 447 Neuroimmunology in Normal Brain Function and Neuropathology (Boulanger)
MOL/NEU 451 Genes, Brain, and the Human Mind (Rosenberg, Wang)
cross-list NEU/MOL 403 Neurogenetics of Behavior (Murthy, Murphy)
cross-list PSY/NEU 415 Advanced Topics in Learning & Memory (Gould)

Circuits and Systems
PSY/EEB/NEU 336 The Diversity of Brains (Ghazanfar)
PSY/NEU 339 Brain and Movement (Graziano)
NEU/MOL 408/PSY 404 Cellular and Systems Neuroscience (Berry, Witten)
MOL 410 Introduction to Biological Dynamics (Brody, Wingreen)
PSY/NEU 412 Motor control and learning (Taylor)
NEU/MOL 437/ 537 / PSY517 Computational Neuroscience (Brody)
NEU 501 A/B Neuroscience: From Molecules to Systems to Behavior (Tank, Cohen)
NEU 508 Computation and Coding in Microcircuits (Berry, da Silveira)
cross-list PSY 260 The Life Cycle of Behaviors (Ghazanfar)
cross-list NEU/MOL 403 Neurogenetics of Behavior (Murthy, Murphy)
cross-list PSY/NEU 415 Advanced Topics in Learning & Memory (Gould)

Cognitive and Social Neuroscience
PSY/NEU 306 Memory & Cognition (Norman)
NEU/PSY 330 Introduction to Connectionist Models: Bridging Between Brain and Mind (Norman)
PSY/NEU 337 Neuroscience of Social Cognition and Emotion (Hasson)
PSY/NEU 338 Animal learning and decision making: psychological, computational and neural perspectives (Niv)
PSY/NEU 402 Introduction to Clinical Neuropsychology: Case Studies in Cognitive Neuroscience (Kastner)
PSY/NEU 416 Brain Imaging in Cognitive Neuroscience Research (Hasson)
PSY/NEU 417 The Neural Basis of Goal-Directed Behavior (Botvinick)
PSY/NEU 421 Cognitive Neuroscience of Selective Attention (Kastner)
ELE/PSY/NEU 480 fMRI Decoding: Reading Minds (Norman, Ramadge)
NEU 502 A/B Neuroscience: From Molecules to Systems to Behavior (Cohen, Tank) cross-list PSY 260 The Life Cycle of Behaviors (Ghazanfar)

QCN Track required courses
Must take 3 courses from a restricted list instead of taking 3 electives

Required:
NEU/MOL 408/PSY 404 Cellular and Systems Neuroscience (Berry, Witten)

Choose One Laboratory Course:
NEU 501B Neuroscience: From Molecules to Systems to Behavior (Cohen, Tank)
NEU 502B Neuroscience: From Molecules to Systems to Behavior (Cohen, Tank)

Choose One Computational Neuroscience Course:
NEU/MOL 437 Computational Neuroscience (Brody)
NEU/PSY 330 Introduction to Connectionist Models: Bridging between Brain and Mind (Norman)
PSY/NEU 338 Animal learning and decision making – psychological, computational and neural perspectives (Niv)