Approved Quantitative Engineering and Science Courses

- Any ES_APPM including:
  - ES_APPM 370: Introduction to Computational Neuroscience
  - ES_APPM 395: Introduction to Applied Partial Differential Equations
  - ES_APPM 395: Modeling Experiments and Data

- BME 366: Biomechanics of Movement
- BME 371: Mechanics of Biological Tissues
- BME 377: Fluid Mechanics
- BME395: Computational Genomics
- BME 461: Computational Neuromechanics and Neuroethology
- BME 463: Advanced Signal Processing Methods in Neuropathophysiology
- BME 478: Transport Fundamentals
Approved Quantitative Engineering and Science Courses

- EECS 328: Numerical Methods for Engineers
- EECS 332: Introduction to Computer Vision
- EECS 359: Digital Signal Processing
- EECS 349: Machine Learning
- EECS 395: Probabilistic Systems
- EECS 495: Bioelectric Systems Modeling & Analysis
- EECS 418: Advanced Digital Signal Processing
- EECS 433: Statistical Pattern Recognition
- EECS 495: Deep Learning Foundations from Scratch
- EECS 495: Optimization Techniques for Machine Learning and Deep Learning
Approved Quantitative Engineering and Science Courses

- ME 314: Theory of Machines – Dynamics
- ME 414: Mechanics of Composite Materials
- ME 327: Finite Elements Methods in Mechanics
- ME 390: Introduction to Dynamic Systems
- ME 362: Stress Analysis

- NUIN 441: Biophysical Signal Processing for Movement & Rehabilitation Sciences

- Other Courses with Approval from Director of MS Program