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
• BME 444: Organic Nanomaterials
• 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