Computer Engineering (CPEN) Electives:

Electrical Engineering Courses:
EE 4245 Digital Signal Processing
EE 4340 Semiconductor Materials and Devices
EE 4345 Hardware Digital Signal Processing
EE 4360 VLSI Design
EE 4440 Communication Theory
EE 4590 Real Time Embedded Systems
EE 4870 Computer Network Hardware
EE 4990 Advanced Microprocessors
EE 5390 Computer Architecture
EE 5410 Neural and Fuzzy Systems
EE 5430 3-D Computer Vision
EE 5440 Geometric/Deep Computer Vision
EE 5460 Probabilistic Robotics
EE 5670 Digital Image Formation
EE 5620 Digital Image Processing
EE 5630 Advanced Image Processing
EE 5650 Object and Pattern Recognition
Multicore Programming/GPGPU for HPC
Network Programming and Congestion Control
EE 4800 Autonomous Cyber-Physical Systems
EE 4800 Intro to Quantum Computing
EE 4800/5885 Modeling of Adv. Robot Systems
EE 5885 Deep Reinforcement Learning and Control
EE 5885 Haptic Robotics
EE 5885 AI for Multi-agent Systems
EE 5885 Explainable AI (XAI)
EE 5885 Distributed Algorithms
EE 5885 Adv in 3D Computer Vision
EE 5885 Intro to Cooperative Robotics
EE 5885 Advances in Deep Learning
EE 5885 Intro to Quantum Cryptography

Bioengineering Courses:
BE 5410 Rehabilitation Engineering

Math Courses:
Math 4500 Matrix Theory

Computer Science Courses (max of 2):
COSC 3020 Algorithms and Data Structures
COSC 3765 Computer Security
COSC 4010 nUWtech Lab Development
COSC 4010/5010 Introduction to Deep Learning
COSC 4010/5010 Intro to VR/AR
COSC 4210 Web Application Development
COSC 4220 Design and Implementation of Emerging Environments
COSC 4450 Computer Graphics
COSC 4550 Introduction to Artificial Intelligence
COSC 4555 Machine Learning
COSC 4560 Modern Robots and Softbots

COSC 4730 Mobile Applications Programming
COSC 4735 Advanced Mobile Programming
COSC 4740 Operating Systems Design
COSC 4760 Computer Networks