Electrical and Computer Engineering integrated path courses

Course code	Course name	Undergraduate program Student must be registered in one of these undergraduate programs		Graduate program Courses will count toward one of these graduate programs		
		Computer Engineering (BEng)	Electrical Engineering (BEng)	Electrical & Computer Engineering (MEng)	Information Systems Security (MEng)	Quality Systems Engineering (MEng)
COEN 6313	Programming on the Cloud	✓	✓	✓	✓	✓
COEN 6341	Embedded Systems Design	✓	✓	✓	✓	✓
COEN 6511	VLSI Circuit Design	✓	✓	✓		
COEN 6541	Functional Hardware Verification	✓	✓	✓		
COEN 6561	Foundations of Cyber-Physical Systems	✓	✓	✓	✓	✓
COEN 6741	Computer Architecture and Design	✓	✓	✓		
COEN 6761	Software Testing and Validation	✓	✓	✓		
COEN 6841	Internet of Things	✓	✓	✓	✓	✓
COEN 6851	Software-Defined Networking	✓	✓	✓	✓	✓
ELEC 6061	Real-time Computer Control Systems	✓	✓	✓		
ELEC 6071	Mixed-Signal VLSI for Communication System	✓	✓	✓		
ELEC 6081	Modern Analog Filter Design	✓	✓	✓		
ELEC 6141	Wireless Communications	✓	✓	✓	✓	✓
ELEC 6221	Solid State Devices	✓	✓	✓		
ELEC 6231	Design of Integrated Circuit Components	✓	✓	✓		
ELEC 6241	VLSI Process Technology	✓	✓	✓		
ELEC 6341	Antennas	✓	✓	✓		
ELEC 6391	Microwave Engineering	✓	✓	✓		
ELEC 6411	Power Electronics I	✓	✓	✓		
ELEC 6421	Renewable Energy Systems	✓	✓	✓		✓
ELEC 6461	Power Electronics II	✓	✓	✓		
ELEC 6651	Advanced Signal Processing	✓	✓	✓		
ELEC 6661	Medical Image Processing	✓	✓	✓		
ELEC 6671	Biological Signal Processing	✓	✓	✓		
ELEC 6821	Fundamentals Network Security & Mngement	✓	✓	✓		
ENCS 6161	Probability and Stochastic Processes	✓	✓	✓	✓	✓
ENGR 6131	Linear Systems	✓	✓	✓		