The Association of Professional Engineers and Geoscientists of Alberta ELECTRICAL ENGINEERING COURSE EQUIVALENTS 2016 EDITION

University of Alberta		University of Calgary	
16-ELEC-A1	Circuits		
ECE 202	Electrical Circuits I	ENGG 225 &	Fundamentals of Electrical Circuits and Machines
ECE 203	Electrical Circuits II	ENEL 343	Electrical Circuits II
16-ELEC-A2	Systems and Control		
ECE 240 &	Continous Time Signals & Systems	ENEL 327 &	Signals and Transforms
ECE 360	Control Systems I	ENEL 441	Control Systems I
16-ELEC-A3	Signals and Communications		
ECE 240 &	Continous Time Signals & Systems	ENEL 327 &	Signals and Transforms
ECE 380	Introduction to Communication Systems	ENEL 471	Analog Communications
16-ELEC-A4	Digital Systems and Computers		
ECE 210 &	Introductions to Digital Logic Design	ENEL 353 &	Digital Circuits
ECE 212	Introduction to Microprosessors	ENEL 453	Digital Systems Design
16-ELEC-A5	Electronics		
ECE 302 &	Electronic Devices	ENEL 469 &	Analog Electronic Circuits
ECE 303 &	Analog Electronics	ENCM 467	Digital Electronics Circuits
ECE 304	Digital Electronics		
16-ELEC-A6	Power Systems and Machines		
ECE 330 &	Introduction to Power Engineering	ENEL 487 &	Electrical Energy Systems Engineering
ECE 332	Electrical Machines	ENEL 489	Modelling and Control of Electric Machines and Drives
16-ELEC-A7	Electromagnetics		
ECE 370 &	Engineering Electromagnetics I	ENEL 476	Electromagnetic Waves and Applications
ECE 476	Engineering Electromagnetics II		
16-ELEC-B1	Digital Signal Processing		
ECE 340 &	Discrete Time signals and Systems	ENEL 593	Digital Filters
ECE 440 &	Digital Signal Processing of Images		
8 ECE 442	Introduction to Multimedia Signal Processing		

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16-ELEC-B2	Advancewd Control Systems				
ECE 460	Control Systems II	ENEL 541	Control Systems II		
& ECE 464	Medical Robotics and Computer-Integrated In	atervention			
LOL 404	Medical Robotics and Computer-Integrated Intervention				
16-ELEC-B3	Digital Communications Systems				
ECE 485 &	Digital Communications	ENEL 529 &	Wireless Communication Systems		
ECE 486	Wireless Communications	ENEL 571	Didgital Communications		
16-ELEC-B4	Information Technology Networks				
ECE 487	Data Communications Networks	ENEL 529 &	Wireless Communications Systems		
		ENEL 573	Telecommunications and Computer Communications		
16-ELEC-B5	Advanced Electronics				
ECE 402 &	RF Communication Circuits	ENEL 559 &	Analog Filter Design		
ECE 478	Microwave Circuits	ENEL 569	Electronic Systems and Applications		
16-ELEC-B6	Integrated Circuit Engineering				
ECE 403	Integrated Circuit Design	ENEL 565 &	Digital Integrated Electronics		
		ENEL 567	CMOS Analog Circuit Design		
16-ELEC-B7	Power Systems Engineering				
ECE 430 &	Power Systems Analysis	ENEL 586 &	Power System Protection		
ECE 433	Power System Stability and Transients	ENEL 587	Power Sysetm Analysis		
16-ELEC-B8	Power Electronics and Drives				
ECE 401 &	Power Electronics	ENEL 489 &	Modelling and Control of Electric Machines and Drives		
ECE 432	Variable Speed Drives	ENEL 585	Introduction to Power Electronics		
16-ELEC-B9	Electromarnetic Fields, Transmission Lines, Antennas and Radiaiton				
ECE 478	Microwave Circuit	ENEL 574	Microwave Engineering		
		ENEL 575	Radio-frequency and Microwave Passive Circuits		
16-ELEC-B10	Electro-Optical Engineering				
ECE 471	Photonics I		No Course Equivalent Offerred		
& ECE 472	Photonics II				
			Updated December 2020		