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***ELECTRICAL ENGINEERING  
COURSE EQUIVALENTS  
1998 Edition***

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***University of Alberta***

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**98-ELEC-A1 Circuits, Signals and Systems**

EE 240 Electrical Circuits I

OR

EE 239 Fundamentals of Electrical  
Engineering

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EE 250 Electric Circuits II

ENEL 341

Electric Circuits I

&

ENEL 343

Electric Circuits II

**98-ELEC-A2 Control**

EE 458 Control Systems I

ENEL 441

Control Systems I

**98-ELEC-A3 Communications**

EE 390 Introduction to  
Communication Systems

ENEL 471

Analog Communications

&

EE 335 Signals and Transform  
Methods

**98-ELEC-A4 Digital Systems and Computers**

EE 280 Introduction to Digital  
Electronics

ENEL 353

Digital System Design

&

EE 380 Introduction to  
Microprocessors

&

ENEL 415

Assembly Language  
Programming and  
Interfacing

**98-ELEC-A5 Electronics**

EE 340 Electronics: Active Devices

ENEL 463

Electronic Devices and  
Circuits

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EE 350 Electronics: Analog Circuits

&

&

EE 570 Large Signal & Pulse Circuits

ENEL 465

Analog Integrated Electronics

**98-ELEC-A6 Electromagnetic Energy Conversion**

EE 330 Introduction to Power  
Engineering

ENEL 489

Electric Machines: Steady  
State

EE 332 Electric Machines

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<b>98-ELEC-A7</b>	<b>Electromagnetics</b>		
EE 315	Engineering Electromagnetics I	ENEL 475	Fundamentals of Electromagnetic Fields
&		&	
EE 316	Engineering Electromagnetics II	ENEL 575	Microwave Circuits and Antennas
<b>98-ELEC-B1</b>	<b>Advanced Circuits Analysis and Design</b>		
EE 335	Signals and Transform Methods		No Course Equivalent
&			
EE 550	Design with Operational Amplifiers		
&			
EE 597	Microwave Engineering		
<b>98-ELEC-B2</b>	<b>Digital Signal Processing</b>		
EE 438	Introduction to Signal Theory and Processing	ENEL 593	Digital Filters
&			
EE 539	Digital Filter Design and Implementation		
<b>98-ELEC-B3</b>	<b>Advanced Control Systems</b>		
EE 561	Control Systems II	ENEL 541	Control Systems II
<b>98-ELEC-B4</b>	<b>Communications Systems</b>		
EE 588	Communications in Noise	ENEL 571	Digital Communications
&			
EE 687	Transmission Media and Systems		
<b>98-ELEC-B5</b>	<b>Advanced Electronics</b>		
EE 571	RF Communication Circuits	ENEL 465	Analog Integrated Electronics
&		&	
EE 597	Microwave Engineering	ENEL 569	Electronics for Instrumentation
&			
EE 632	Design with Analogue Integrated Circuits		
<b>98-ELEC-B6</b>	<b>Integrated Circuit Engineering</b>		
EE 552	High Level Digital ASIC Design Using CAD	ENEL 567	CMOS VLSI Engineering
&			
EE 653	Integrated Circuit Design		

**98-ELEC-B7 Power Systems Engineering**

EE 521	Power Systems I	ENEL 587	Power Systems: Steady-State
&			
EE 525	Power Systems II		

**98-ELEC-B8 Switched Mode Power Supply Design**

EE 524	Switched Mode Power Supplies		No Course Equivalent
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**98-ELEC-B9 Power Electronics and Drives**

EE 530	Power Electronics	ENEL 585	Introduction to Power Electronics
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**98-ELEC-B10 Electromagnetic Fields, Transmission Lines, Antennas and Radiation**

EE 591	Antennas and Propagation	ENEL 575	Microwave Circuits and Antennas
&			
EE 597	Microwave Engineering		

**98-ELEC-B11 Electro-Optical Engineering**

EE 586	Introduction to Optical Fibre Communications	ENEL 579	Optical Fibre Communications
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