



The Association of Professional Engineers,
Geologists and Geophysicists of Alberta

***ELECTRICAL ENGINEERING
COURSE EQUIVALENTS
2007 Edition***

University of Alberta

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07-ELEC-A1 Circuits

EE 240 Electrical Circuits I

OR

EE 239 Fundamentals of
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EE 250 Electric Circuits II

ENEL 341 Electric Circuits I

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ENEL 343 Electric Circuits II

07-ELEC-A2 Systems and Control

EE 238 Continuous Time Signals
and Systems

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EE 357 Control Systems I

ENEL 441 Control Systems I

07-ELEC-A3 Signals and Communications

EE 238 Continuous Time Signals
and Systems

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EE 390 Introduction to
Communication Systems

ENEL 327 Signals and Transforms

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ENEL 471 Analog Communications

07-ELEC-A4 Digital Systems and Computers

EE 280 Introduction to Digital
Logic Design

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EE 380 Introduction to
Microprocessors

ENEL 353 Digital Circuits

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ENEL 453 Digital Systems Design

07-ELEC-A5 Electronics

EE 340 Electronic Devices

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EE 350 Analog Electronics

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EE 351 Digital Electronics

ENEL 463 Electronic Devices and Circuits

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ENEL 465 Analog Integrated Electronics

07-ELEC-A6 Power Systems and MachinesEE 330 Introduction to Power
Engineering

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EE 332 Electric Machines

ENEL 489 Electric Machines: Steady State

07-ELEC-A7 ElectromagneticsEE 315 Engineering
Electromagnetics I

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EE 470 Electromagnetics of
WaveguidesENEL 475 Fundamentals of Electromagnetic
Fields

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ENEL 575 Microwave Circuits and Antennas

07-ELEC-B1 Digital Signal ProcessingEE 338 Discrete Time Signals and
Systems

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EE 441 Digital Filters

ENEL 593 Digital Filters

07-ELEC-B2 Advanced Control Systems

EE 460 Control Systems II

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EE 461 Digital Control

ENEL 541 Control Systems II

07-ELEC-B3 Digital Communications Systems

EE 485 Digital Communications

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EE 486 Wireless Communications

ENEL 571 Digital Communications

07-ELEC-B4 Information Technology NetworksCMPE 487 Data Communications
Networks

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EE 489 Telecommunication Systems
EngineeringENEL 529 Wireless Communication
Systems

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ENEL 573 Telecommunications and
Computer Communications**07-ELEC-B5 Advanced Electronics**

EE 451 RF Communication Circuits

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ENEL 465 Analog Integrated Electronics

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EE 452	Physical Electronics	ENEL 569 Electronics for Instrumentation
07-ELEC-B6 Integrated Circuit Engineering		
EE 453	Integrated Circuit Design	ENEL 565 Digital Integrated Electronics & ENEL 567 CMOS VLSI Engineering
07-ELEC-B7 Power Systems Engineering		
EE 430	Power Systems I	ENEL 587 Power Systems: Steady State
& EE 433	Power Systems II	
07-ELEC-B8 Power Electronics and Drives		
EE 431	Power Electronics	ENEL 585 Introduction to Power Electronics
& EE 432	Variable Speed Drives	
07-ELEC-B9 Electromagnetic Fields, Transmission Lines, Antennas and Radiation		
EE 470	Electromagnetics of	ENEL 575 Microwave Circuits and Antennas
Waveguides &		
EE 473	Antennas and Propagation	
07-ELEC-B10 Electro-Optical Engineering		
EE 471	Photonics I	ENEL 579 Optical Fibre Communicaitons
& EE 472	Photonics II	