

COMPUTER ENGINEERING COURSE EQUIVALENTS 2017 EDITION

	University of Alberta		University of Calgary
17-Comp-A1 ECE 302	Electronics Electronic Devices	ENEL 361	Electronic Devices and Circuits
& ECE 304	Digital Electronics	& ENCM 467	Digital Electronic Circuits
17-Comp-A2	Digital Systems Design		
ECE 315	Computer Interfacing	ENEL 453	Digital Systems Design
17-Comp-A3	Computer Architecture		
ECE 311	Computer Organization and Architecture	ENCM 369	Computer Organization
17-Comp-A4	Program Design and Data Structures		
ECE 325	Object-Oriented Software Design	ENSF 338	Practical Data Structures and Algorithms
17-Comp-A5	Operating Systems		
CMPUT 379	Operating System Concepts	ENSF 461	Applied Operating Systems
17-Comp-A6	Software Engineering		
CMPUT 301	Introduction to Software Engineering	SENG 300	Introduction to Software Engineering
17-Comp-B1	Advanced Computer Architecture		
	No Course Equivalent Offerred	ENCM 501	Principles of Computer Architecture
17-Comp-B2	Principles of VSLI		
ECE 403	Integrated Circuit Design	ENEL 567	CMOS VLSI Engineering
17-Comp-B3	Databases and File Systems		
CMPUT 291	Introduction to File and Database Management	CPSC 461	Information Structures
& CMPUT 391	Database Management Systems	& CPSC 471	Data Base Management
17-Comp-B4	Computer Graphics		
CMPUT 411	Introduction to Computer Graphics	CPSC 453	Introduction to Computer Graphics
17-Comp-B5	Computer Communications		
ECE 487	Data Communications Networks	CPSC 441	Computer Communications
17-Comp-B6	Computer Control and Robotics		
ECE 460	Control Systems II	ENEL 541	Control Systems II
& ECE 464	Medical Robotics and Computer-Integrated Intervention	& ENME 505	Robotics

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17-Comp-B7	Digital Signal Processing			
ECE 541	Digital Signal Processing	ENEL 593	Digital Filters	
17-Comp-B8	Computer Integrated Manufacturing			
	No Course Equivalent Offerred	ENMF 503	Computer-Aided Design and Manufacturing	
17-Comp-B9	Artificial Intelligence and Expert Systems			
ECE 449	Intelligent Systems Engineering	ENEL 525	Machine Learning for Engineers	
17-Comp-B10 Distributed Systems				
ECE 420	Parallel and Distributed Programming	CPSC 561	Introduction to Distributed Algorithms	
17-Comp-B1 ² ECE 522	Advanced Software Design Software Construction, Verification and Evolution	CPSC 550	System Software Design and Development	
17-Comp-B12 Computer Security				
ECE 422	Reliable and Secure Systems Design	SENG 521	Software Reliability and Software Quality	
17-Comp-B13 Mechatronic Design				
	No Course Equivalent Offerred	ENME 461	Foundations of Mechatronics	

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