The Association of Professional Engineers and Geoscientists of Alberta

COMPUTER ENGINEERING ACADEMIC ASSESSMENT CHECKLIST

The syllabus checklist below is based on the approved discipline topics used by APEGA's Executive Committee of the Board of Examiners (BOE) to either confirm or meet academic shortfalls or deficiencies. Please use in conjunction with the course descriptions provided here: https://www.apega.ca/apply/exams/technical/courses/.

This form is provided for assessment purposes only (06.02.2020).

2017		✓
Preliminary Exams	20-Prelim-1 Calculus	
	20-Prelim-2 Computing	
	20-Prelim-3 Physics	
	20-Prelim-4 Chemistry	
Basic Studies & Compulsory Exams	04-BS-1 Mathematics	
	04-BS-2 Probability and Statistics	
	04-BS-4 Electric Circuits and Power	
	04-BS-5 Advanced Mathematics	
	04-BS-8 Digital Logic Circuits	
	04-BS-16 Discrete Mathematics	
Optional Exams (Requires 2)	04-BS-3 Statics and Dynamics	
	04-BS-6 Mechanics of Materials	
	04-BS-7 Mechanics of Fluids	
	04-BS-9 Basic Electromagnetics	
	04-BS-10 Engineering Thermodynamics	
	04-BS-11 Properties of Materials	
	04-BS-15 Engineering Graphics	
Computer Group A (Requires 6)	17-Comp-A1 Electronics	
	17-Comp-A2 Digital Systems Design	
	17-Comp-A3 Computer Architecture	
	17-Comp-A4 Program Design and Data Structures	
	17-Comp-A5 Operating Systems	
	17-Comp-A6 Software Engineering	
Computer Group B (Require 3)	17-Comp-B1 Advanced Computer Architecture	
	17-Comp-B2 Principles of VLSI	
	17-Comp-B3 Databases and File Systems	
	17-Comp-B4 Computer Graphics	
	17-Comp-B5 Computer Communications	
	17-Comp-B6 Computer Control and Robotics	
	17-Comp-B7 Digital Signal Processing	
	17-Comp-B8 Computer Integrated Manufacturing	

	17-Comp-B9 Artificial Intelligence and Expert Systems	
	17-Comp-B10 Distributed Systems	
	17-Comp-B11 Advanced Software Design	
	17-Comp-B12 Computer Security	
	17-Comp-B13 Mechatronic Design	
Complementary Studies	98-CS-1 Engineering Economics	
	98-CS-2 Engineering in Society - Health, Safety, and the Environment	
	98-CS-3 Management Concepts for Engineers	