



CHEMICAL 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).

2016		✓
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-3 Statics and Dynamics	
	04-BS-7 Mechanics of Fluids	
	04-BS-10 Engineering Thermodynamics	
	04-BS-12 Organic Chemistry	
Optional Exams (Requires 2)	04-BS-4 Electric Circuits and Power	
	04-BS-5 Advanced Mathematics	
	04-BS-6 Mechanics of Materials	
	04-BS-11 Properties of Materials	
	04-BS-13 Biology	
	04-BS-14 Geology	
	04-BS-15 Engineering Graphics	
Chemical Group A (Requires 6)	16-Chem-A1 Process Balances and Chemical Thermodynamics	
	16-Chem-A2 Unit Operations and Separation Processes	
	16-Chem-A3 Heat and Mass Transfer	
	16-Chem-A4 Chemical Reactor Engineering	
	16-Chem-A5 Chemical Plant Design and Economics	
	16-Chem-A6 Process Dynamics and Control	
Chemical Group B (Require 3)	16-Chem-B1 Transport Phenomena	
	16-Chem-B2 Environmental Engineering	
	16-Chem-B3 Simulation, Modelling, and Optimization	
	16-Chem-B4 Biochemical Engineering	
	16-Chem-B5 Pulp and Paper Technology	
	16-Chem-B6 Petroleum Refining and Petrochemicals	
	16-Chem-B7 Extractive Metallurgy	
	16-Chem-B8 Polymer Engineering	

	16-Chem-B9	Advanced Materials	
	16-Chem-B10	Life Cycle Assessment (LCA)	
	16-Chem-B11	Nuclear and Nuclear Chemical Processes	
	16-Chem-B12	Petroleum Production Operations	
	16-Chem-B13	Fundamental Reservoir Engineering	
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	