

CIVIL 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-6 Mechanics of Materials	
	04-BS-7 Mechanics of Fluids	
	04-BS-11 Properties of Materials	
Optional Exams (Requires 1)	04-BS-14 Geology	
	04-BS-4 Electric Circuits and Power	
	04-BS-5 Advanced Mathematics	
	04-BS-10 Engineering Thermodynamics	
Civil Group A (Requires 6)	04-BS-15 Engineering Graphics	
	16-Civ-A1 Elementary Structural Analysis	
	16-Civ-A2 Elementary Structural Design	
	16-Civ-A3 Elementary Environmental Engineering	
	16-Civ-A4 Geotechnical Materials and Analysis	
	16-Civ-A5 Hydraulic Engineering	
Civil Group B (Requires 3)	16-Civ-A6 Highway Design, Construction, and Maintenance	
	16-Civ-B1 Advanced Structural Analysis	
	16-Civ-B2 Advanced Structural Design	
	16-Civ-B3 Geotechnical Design	
	16-Civ-B4 Engineering Hydrology	
	16-Civ-B5 Water Supply and Wastewater Treatment	
	16-Civ-B6 Urban and Regional Planning	
	16-Civ-B7 Transportation Planning and Engineering	
	16-Civ-B8 Management of Construction	
	16-Civ-B9 The Finite Element Method	
16-Civ-B10 Traffic Engineering		

	16-Civ-B11	Structural Materials	
	16-Civ-B12	Risk and Safety in Civil Engineering	
	16-Civ- B13	Numerical Methods	
	16-Civ- B14	Open Channel Hydraulics	
	16-Civ- B15	Coastal Engineering	
	16-Civ- B16	Advanced Environmental Engineering	
	16-Civ-B17	Intelligent Transportations Systems	
	16-Civ-B18	Geomatics	
	16-Civ-B19	Foundation Engineering	
	16-Civ-B20	Building Engineering and Services	
	16-Civ-B21	Advanced Structural Mechanics	
	16-Civ-B22	Dynamics of Engineering Structures	
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	