



Association of the Chemical Profession of Ontario
Association des chimistes professionnels de l'Ontario

List the number of units taken in Chemistry

(number in brackets are usual # of units for an B.Sc. Honours Degree)

(Each applicant **must** fill this section, whether specialized in Chem., Bio-Chem., Chem. Engr, etc.)

Chemistry Units	Subject (# units)	Lectures	Labs	Advanced				
(write ½ unit for a one-term course)	General (1 & 1)			Biochemistry		Advanced Instrum.		
	Organic (1 & 1)			Natural Products		Electrochemistry		
	Inorganic (1 & 1)			Polymers		Industr. Chemistry		
	Analytical (1 & 1)			Microbiology		Geochemistry		
	Phys. Chem. (1 & 1)			Pharmacy		Spectroscopy		
				Photochemistry		Solid State		
				Phys. Chemistry		Statistics		
				Transition Metals		Others		
				Materials Science				
	Total (5 lect. & 5 lab.)			Total (1 lect. incl. ½ biochem. & 1 lab.)				
Other units	Pure or Applied Math.			<i>Calculus-based Chem. or Phys.</i>				
				Thermo.; Quantum Chem. or Phys.;				
				Field Theory; Fluids Mech.;				
				Stat. Mech.; Optics & Magn.;				
	Total (2)			Total (1)				
Remarks (# publications, patents, etc.)								

Chemistry Units (1 Full unit = 3 hours/week, all year long)

Typically, a **full unit** is a course given all year long (30 weeks) for 3 hrs/week, and represents 90 hrs of instruction. Thus, 5 full units (450 hours) in the subject areas, 5 lab units (450 hours), and 2 advanced units (180 hours) add up to **12 full units**, a total of about **1,100 hours** in chemistry.

An Honours Degree in Chemistry normally includes **2** full units (180 hours) in pure or applied mathematics, and **1** full unit (90 hours) in calculus-based chemistry or physics, for a total of **15** full units (1,350 hours).

In order to evaluate the qualification of candidates for full membership, the Board of Examiners of the ACPO uses the same definition for a B.Sc. Honours Degree as that given by the Canadian Society for Chemistry, which is responsible for the accreditation of undergraduate chemistry programs in Canadian Universities. It prepares the graduates of these programs to practice their profession in a competent scientific manner, and also helps to maintain national standards of education in chemistry.

As an indication, a B.Sc. Honours Degree in Chemistry comprises 1 full lecture unit (2 terms) and 1 full lab unit in each of 5 areas (General, Organic, Inorganic, Analytical, Physical Chemistry), **plus** ½ unit in Biochemistry or equivalent, ½ unit advanced course and 1 unit lab with a major proportion of chemistry.