

Chemistry Majors Program

100 level:

Course	Short Title	Term(s) offered	Units/term	Prerequisites
Chem 101	Fund. Chemistry I	Sep, May	1.5	Chem 11 + Math 12 (or Pre-calculus 12)
Chem 102	Fund. Chemistry II	Jan	1.5	Chem 12 (or Chem 091) + 101 or 150
Math 100	Calculus I	Sep, Jan	1.5	
Math 101	Calculus II	Sep, Jan	1.5	
Phys 110	Intro Physics I	Sep, Jan	1.5	
Phys 111	Intro Physics II	Jan, May	1.5	
Electives			6.0	

200 level:

Course	Short Title	Term(s) offered	Units/term	Prerequisites
Chem 212	Intro Analysis	Sep	1.5	Chem 102
Chem 213	Spectroscopy	Sep	1.5	Chem 101 or 150
Chem 222	Intro Inorganic	Jan, May	1.5	Chem 102
Chem 231	Intro Organic	Sep, Jan	1.5	Chem 101 or 150
Chem 232	Organic with Biol Applic.	Jan, May	1.5	Chem 231
Chem 245	Intro Physical	Sep	1.5	Chem 102 + Math 100 or 102
One Math 200 level*			1.5	*chosen from: Math 200, 201, or 202
One 200 level science**			1.5	**some 300 level courses could satisfy this requirement - please check with department
Electives [†]			3.0	

300/ 400 level:

Course	Short Title	Term(s) offered	Units/term	Prerequisites
Chem 324	Transition Metals	Sep	1.5	Chem 222
Chem 347	Quantum Chemistry	Sep	1.5	Chem 213 or 245 + Math 101
Chem 453	Structure and Bonding	Sep	1.5	Chem 222 + Chem 232
Chem 318	Instrumental Analysis	Jan	1.5	Chem 212 + Chem 213
Chem 335	Organic Synthesis	Jan	1.5	Chem 232
Chem 452	Reaction Mechanisms	Jan	1.5	Chem 222 + Chem 232
Chem 361	Analytical Lab, part 1	Sep, Jan	0.75	Chem 212
Chem 361	Analytical Lab, part 2	Sep, Jan	0.75	Chem 212
Chem 362	Inorganic Lab, part 1	Sep, Jan	0.75	Chem 213 + Chem 222
Chem 362	Inorganic Lab, part 2	Sep, Jan	0.75	Chem 213 + Chem 222
Chem 363	Organic Lab, part 1	Sep, Jan	0.75	Chem 213 + Chem 232
Chem 363	Organic Lab, part 2	Sep, Jan	0.75	Chem 213 + Chem 232
Chem 364	Physical Lab, part 1	Sep, Jan, May	0.75	Chem 245
Chem 364	Physical Lab, part 2	Sep, Jan, May	0.75	Chem 245
Bioc 299 (or 300A)	General Biochemistry	Jan, (May)	1.5	Chem 231 (For 300A: Chem 231 + Chem 232 + BIOL 225)
Electives			13.5	

Maximum of 15 units 300/400 level Chemistry (12 at UVic)

[†] At least 3.0 units must be at 200 level from another Science department

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