

Chemistry 2003-2004			Chemistry 2004-2005		
	Fall Semester	Winter Semester		Fall Semester	Winter Semester
Year 1	<b>59-140 Gen Chem I</b>	<b>59-141 Gen Chem II</b>	Year 1	<b>59-140 Gen Chem I</b>	<b>59-141 Gen Chem II</b>
	<b>64-140 Intro Physics I</b>	<b>64-141 Intro Physics II</b>		<b>64-140 Intro Physics I</b>	<b>64-141 Intro Physics II</b>
	<b>62-140 Calculus A</b>	<b>62-141 Calculus B</b>		<b>62-140 Calculus A</b>	<b>62-141 Calculus B</b>
	<b>62-120 Linear Algebra</b>	<i>60-104 Comp. End Users or 64-151 Intro Theor Meth</i>		Option 1	Option 2
	ASL Option 1	ASL Option 2		ASL Option 1	ASL Option 2
Year 2	<b>59-230 Intro Org Chem I</b>	<b>59-235 Intro Org Chem I</b>	Year 2	<b>59-230 Intro Org Chem I</b>	<b>59-235 Intro Org Chem II</b>
	<b>59-240 Intro Phys Chem I</b>	<b>59-241 Intro Phys Chem II</b>		<b>59-240 Intro Phys Chem I</b>	<b>59-241 Intro Phys Chem II</b>
	<b>59-250 Intro Inorg Chem I</b>	<b>59-251 Intro Inorg Chem II</b>		<b>59-250 Intro Inorg Chem I</b>	<b>59-251 Intro Inorg Chem II</b>
	<b>64-220 EM &amp; Photons</b>	<b>59-261 Org Chem Biomol</b>		MPSC 1	MPSC 2
	<i>62-215 Vector Calculus</i>	<i>62-216 Diff Equations</i>		ASL Option 3	ASL Option 4
Year 3	<b>59-320 Analyt Chem</b>	<b>59-321 Instrum. Analysis</b>	Year 3	<b>59-320 Analyt Chem</b>	<b>59-321 Instrum. Analysis</b>
During Years 3 & 4	59-330 Spec Struct Ident	59-331 Intermed Org Chem	During Years 3 & 4	<b>59-330 Spec Struct Ident</b>	59-331 Intermed Org Chem
	59-340 Quantum Chem	59-341 Molec Spec		<b>59-340 Quantum Chem</b>	59-341 Molec Spec
	59-350 Organomet Chem	59-351 Mater Chem		<b>59-350 Organomet Chem</b>	59-351 Mater Chem
	59-3xx or 59-4xx	59-3xx or 59-4xx		59-3xx or 59-4xx	<b>59-261 Org Chem Biomol</b>
	59-3xx or 59-4xx	Option 4		59-3xx or 59-4xx	59-3xx or 59-4xx
	Option 5	Option 6		MPSC 3	Option 3
	Option 7	Option 8		Option 4	Option 5
	Option 9	Option 10		Option 6	Option 7
	ASL Option 3	ASL Option 4		Option 8	Option 9
Year 4 Thesis	<b>59-400/410 Seminar/Project</b>	<b>59-400/410 Seminar/Project</b>	Year 4 Thesis	<b>59-400/410 Seminar/Project</b>	<b>59-400/410 Seminar/Project</b>

<b>MPSC:</b> Math, Physical Sciences or Computer Science Courses	62-120 Lin. Alg. and any 2 of these 5: 60-106 Prog C Beginners, 62-215 Vector Calculus, 62-216 Differential Equations, 64-220 EM Field & Photons, 64-222 Optics.
<b>ASL:</b> Arts, Social Sciences or Languages Options	Choose any 4, see 2.4.14 of calendar
<b>Option:</b> Any courses	Suggestions: 60-104 Comp. End Users and 61-224 Geochemistry.
MPSC, ASL and Option Courses may be switched around to fit all possible schedules. The above are just suggestions for completing scheduling.	

**Comparison of Old Calendar and New Calendar**

Old calendar	
20 chemistry	20
<b><i>required chemistry</i></b>	<b><i>11</i></b>
(a) 62-120, 62-140, 62-141, 64-140, 64-141, and 64-220.	6
(b) four courses from Arts, Languages or Social Sciences (see 2.4);	4
(c) ten courses from any area of study. (62-215 and 62-216 are strongly recommended.)	10

New calendar	
20 chemistry	20
<b><i>required chemistry</i></b>	<b><i>14</i></b>
(a) 62-120, 62-140, 62-141, 64-140 and 64-141	5
(b) 2 of the following: 60-106, 62-215, 62-216, 64-220, 64-222	2
(c) four courses from Arts, Languages or Social Sciences (see 2.4);	4
(d) nine courses from any area of study. (62-215 and 62-216 are strongly recommended.)	9

Another suggested course under the physical sciences option: 61-224 Introduction to Geochemistry - **still awaiting the course outline**

**61-224. Introduction to Geochemistry**

An overview of the chemical composition of Earth and the factors governing the cycling of chemicals throughout the earth from the core through to surface environments. Principles of crystal chemistry, chemical reactions and equilibria, oxidation and reduction, adsorption and ion exchange and isotope chemistry and their relevance to Earth processes. (Prerequisites: 59-140, 59-141) (3 lecture and/or tutorial hours per week.).

Should we prohibit students enrolled in any of our programs from taking: 59-201 Chemistry & The Marketplace? **YES**

**Important question regarding project for Chem, Biochem, Chem & Physics:**

59-410 should not count towards fulfilment of the 20 chemistry credits, it is a privilege to take this course for students with high grades - it replaces two options in the course list. Should we cut the credit value of 59-400 to 1 from 3, or just leave it this year?