

# Course Schedule - Fall 2007

## Chemistry

101 **Introductory Chemistry** credit: 3 hours.

Introduction to the basic concepts and language of chemistry; lectures, discussions, and lab. Preparatory chemistry course for students who require additional background before enrolling in CHEM 102. This course has been approved for graduation credit for all students in the College of LAS. Students in other colleges should check with their college office. Prerequisite: 2.5 years of high school mathematics, or credit or concurrent registration in MATH 012.

This course satisfies the General Education Criteria for a Physical Sciences course.

Students may not take CHEM 101 as part of their general education sequence in physical science. Students must register for one lab-discussion and one lecture section.

CRN	Type	Section	Time	Days	Location	Instructor
36153	discussion-recitation	ADA	09:00 AM - 09:50 AM	F	room 8 Chemistry Annex	
36153: Physical Sciences course.						
	laboratory	ADA	08:00 AM - 09:50 AM	R	room 101 Chemistry Annex	Adams, G; Vargas, A; Heaton, J
: Physical Sciences course.						
36158	discussion-recitation	ADB	10:00 AM - 10:50 AM	F	room 8 Chemistry Annex	
36158: Physical Sciences course.						
	laboratory	ADB	08:00 AM - 09:50 AM	R	room 101 Chemistry Annex	Adams, G; Putman, R; Williams, C
: Physical Sciences course.						
47836	discussion-recitation	ADE	12:00 PM - 12:50 PM	F	room 164 Noyes Laboratory	
47836: Physical Sciences course.						
	laboratory	ADE	12:00 PM - 01:50 PM	W	room 101 Chemistry Annex	Adams, G; Borsdorf, D
: Physical Sciences course.						
36186	discussion-recitation	ADF	12:00 PM - 12:50 PM	F	room 162 Noyes Laboratory	
36186: Physical Sciences course.						
	laboratory	ADF	04:00 PM - 05:50 PM	W	room 101 Chemistry Annex	Adams, G; Snider, S; Cohen, M
: Physical Sciences course.						
47838	discussion-	ADG	01:00 PM - 01:50	F	room 312	

	recitation		PM		Davenport Hall	
47838: Physical Sciences course.						
	laboratory	ADG	02:00 PM - 03:50 PM	W	room 101 Chemistry Annex	Adams, G; Borsdorf, D; Snider, S
: Physical Sciences course.						
36191	discussion-recitation	ADH	02:00 PM - 02:50 PM	F	room 303 Noyes Laboratory	
36191: Physical Sciences course.						
	laboratory	ADH	02:00 PM - 03:50 PM	W	room 101 Chemistry Annex	Adams, G; Williams, C
: Physical Sciences course.						
36193	discussion-recitation	ADI	01:00 PM - 01:50 PM	F	room 164 Noyes Laboratory	
36193: Physical Sciences course.						
	laboratory	ADI	10:00 AM - 11:50 AM	W	room 101 Chemistry Annex	Adams, G; Borsdorf, D; Putman, R
: Physical Sciences course.						
36195	discussion-recitation	ADJ	09:00 AM - 09:50 AM	F	room 143 Henry Administration Bldg	
36195: Physical Sciences course.						
	laboratory	ADJ	08:00 AM - 09:50 AM	W	room 101 Chemistry Annex	Paek, J; Adams, G
: Physical Sciences course.						
36197	discussion-recitation	ADK	11:00 AM - 11:50 AM	F	room 164 Noyes Laboratory	
36197: Physical Sciences course.						
	laboratory	ADK	12:00 PM - 01:50 PM	W	room 101 Chemistry Annex	Adams, G; Cohen, M
: Physical Sciences course.						
36199	discussion-recitation	ADL	02:00 PM - 02:50 PM	F	room 164 Noyes Laboratory	
36199: Physical Sciences course.						
	laboratory	ADL	04:00 PM - 05:50 PM	W	room 101 Chemistry Annex	Adams, G; Plachta, S
: Physical Sciences course.						
36151	lecture	AL1	02:00 PM - 02:50	TR	room 100 Noyes	Adams, G

			PM		Laboratory	
36151: Physical Sciences course.						
50683	lecture	AL2	02:00 PM - 02:50 PM	TR	room 304 Noyes Laboratory	Adams, G
50683: Physical Sciences course.						
41901	discussion-recitation	BDC	10:00 AM - 10:50 AM	F	room 301 Noyes Laboratory	
41901: Physical Sciences course.						
	laboratory	BDC	08:00 AM - 09:50 AM	W	room 184 Lincoln Hall	Denofrio, L; Qin, F; Tan, K
: Physical Sciences course.						
41902	discussion-recitation	BDD	09:00 AM - 09:50 AM	F	room 19 Noyes Laboratory	
41902: Physical Sciences course.						
	laboratory	BDD	10:00 AM - 11:50 AM	W	room 184 Lincoln Hall	Denofrio, L; Tan, K
: Physical Sciences course.						
41903	discussion-recitation	BDE	12:00 PM - 12:50 PM	F	room 163 Noyes Laboratory	
41903: Physical Sciences course.						
	laboratory	BDE	02:00 PM - 03:50 PM	W	room 184 Lincoln Hall	Denofrio, L; Knight, C
: Physical Sciences course.						
41904	discussion-recitation	BDF	10:00 AM - 10:50 AM	F	room 9 Chemistry Annex	
41904: Physical Sciences course.						
	laboratory	BDF	04:00 PM - 05:50 PM	W	room 184 Lincoln Hall	Denofrio, L; Schmucker, D; Knight, C
: Physical Sciences course.						
41905	discussion-recitation	BDG	09:00 AM - 09:50 AM	F	room 162 Noyes Laboratory	
41905: Physical Sciences course.						
	laboratory	BDG	12:00 PM - 01:50 PM	W	room 184 Lincoln Hall	Denofrio, L; Head, M; Peoples, A
: Physical Sciences course.						
41906	discussion-	BDH	01:00 PM - 01:50	F	room 163 Noyes	

	recitation		PM		Laboratory	
41906: Physical Sciences course.						
	laboratory	BDH	10:00 AM - 11:50 AM	W	room 145 Lincoln Hall	Denofrio, L; Schmucker, D
: Physical Sciences course.						
41907	discussion-recitation	BDI	03:00 PM - 03:50 PM	F	room 162 Noyes Laboratory	
41907: Physical Sciences course.						
	laboratory	BDI	04:00 PM - 05:50 PM	W	room 145 Lincoln Hall	Denofrio, L; Fellin, M
: Physical Sciences course.						
41908	discussion-recitation	BDJ	03:00 PM - 03:50 PM	F	room 9 Chemistry Annex	Denofrio, L; Head, M
41908: Physical Sciences course.						
	laboratory	BDJ	08:00 AM - 09:50 AM	W	room 145 Lincoln Hall	Denofrio, L; Head, M
: Physical Sciences course.						
41909	discussion-recitation	BDK	04:00 PM - 04:50 PM	F	room 9 Chemistry Annex	
41909: Physical Sciences course.						
	laboratory	BDK	12:00 PM - 01:50 PM	W	room 145 Lincoln Hall	Denofrio, L; Fellin, M; Peoples, A
: Physical Sciences course.						
41910	discussion-recitation	BDL	02:00 PM - 02:50 PM	F	room 162 Noyes Laboratory	
41910: Physical Sciences course.						
	laboratory	BDL	02:00 PM - 03:50 PM	W	room 145 Lincoln Hall	Denofrio, L; Qin, F
: Physical Sciences course.						
41897	lecture	BL1	08:00 AM - 08:50 AM	TR	room 100 Noyes Laboratory	Denofrio, L
41897: Physical Sciences course.						
47404	lecture	LC1	02:00 PM - 02:50 PM	TR	room 100 Noyes Laboratory	Adams, G
47404: Physical Sciences course.						
47404: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program please go to <a href="http://www.las.uiuc.edu/learningcommunity/">http://www.las.uiuc.edu/learningcommunity/</a> Must enroll concurrently in LAS 100 47416.						

47405	lecture	LC2	02:00 PM - 02:50 PM	TR	room 100 Noyes Laboratory	Adams, G
47405: Physical Sciences course.						
47405: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program please go to <a href="http://www.las.uiuc.edu/learningcommunity/">http://www.las.uiuc.edu/learningcommunity/</a> Must enroll concurrently in LAS 100 47417.						
47406	lecture	LC3	02:00 PM - 02:50 PM	TR	room 100 Noyes Laboratory	Adams, G
47406: Physical Sciences course.						
47406: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program please go to <a href="http://www.las.uiuc.edu/learningcommunity/">http://www.las.uiuc.edu/learningcommunity/</a> Must enroll concurrently in LAS 100 47418.						
47407	lecture	LC4	02:00 PM - 02:50 PM	TR	room 100 Noyes Laboratory	Adams, G
47407: Physical Sciences course.						
47407: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program please go to <a href="http://www.las.uiuc.edu/learningcommunity/">http://www.las.uiuc.edu/learningcommunity/</a> Must enroll concurrently in LAS 100 47419.						
36164	discussion-recitation	LD1	10:00 AM - 10:50 AM	F	room 164 Noyes Laboratory	
36164: Physical Sciences course.						
	laboratory	LD1	08:00 AM - 09:50 AM	W	room 101 Chemistry Annex	Adams, G; Heaton, J
: Physical Sciences course.						
: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program please go to <a href="http://www.las.uiuc.edu/learningcommunity/">http://www.las.uiuc.edu/learningcommunity/</a> Must enroll concurrently in LAS 100 47416.						
47412	discussion-recitation	LD2	10:00 AM - 10:50 AM	F	room 164 Noyes Laboratory	
47412: Physical Sciences course.						
	laboratory	LD2	08:00 AM - 09:50 AM	W	room 101 Chemistry Annex	Adams, G; Heaton, J
: Physical Sciences course.						
: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program please go to <a href="http://www.las.uiuc.edu/learningcommunity/">http://www.las.uiuc.edu/learningcommunity/</a> Must enroll concurrently in LAS 100 47417.						
36168	discussion-recitation	LD3	11:00 AM - 11:50 AM	F	room 136 Davenport Hall	
36168: Physical Sciences course.						
	laboratory	LD3	10:00 AM - 11:50 AM	W	room 101 Chemistry Annex	Paek, J; Adams, G; Vargas, A
: Physical Sciences course.						
: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program						

please go to <http://www.las.uiuc.edu/learningcommunity/Must enroll concurrently in LAS 100 47418>.

47413	discussion-recitation	LD4	11:00 AM - 11:50 AM	F	room 136 Davenport Hall	
47413: Physical Sciences course.						
	laboratory	LD4	10:00 AM - 11:50 AM	W	room 101 Chemistry Annex	Paek, J; Adams, G; Vargas, A
: Physical Sciences course.						
: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program please go to <a href="http://www.las.uiuc.edu/learningcommunity/Must enroll concurrently in LAS 100 47419">http://www.las.uiuc.edu/learningcommunity/Must enroll concurrently in LAS 100 47419</a> .						

102 **General Chemistry I** credit: 3 hours.

For students who have some prior knowledge of chemistry. Principles governing atomic structure, bonding, states of matter, stoichiometry, and chemical equilibrium; descriptive chemistry of the elements and coordination compounds. Students may not receive credit for both CHEM 102 and CHEM 202. Prerequisite: Credit in or exemption from MATH 012; one year of high school chemistry or equivalent.

This course satisfies the General Education Criteria for a Physical Sciences course.

All students enrolled in CHEM 102 should also enroll in CHEM 103. Students must register in either a single lecture-discussion section or a combination of one lecture and one quiz section beginning with the same letter. CHEM 102 and CHEM 103 are approved for General Education credit only as a sequence. Both courses must be completed to receive Natural Science and Technology credit.

CRN	Type	Section	Time	Days	Location	Instructor
36203	lecture	AL1	11:00 AM - 11:50 AM	TR	room 100 Noyes Laboratory	Yerkes, C
36203: Physical Sciences course.						
36203: Designed for Engineering Students.						
48519	lecture	AL2	11:00 AM - 11:50 AM	TR	room 304 Noyes Laboratory	Yerkes, C
48519: Physical Sciences course.						
36204	quiz	AQ1	12:00 PM - 12:50 PM	WF	room 304 Noyes Laboratory	Yerkes, C; Jew, R
36204: Physical Sciences course.						
36204: Designed for Engineering Students.						
36205	quiz	AQ2	09:00 AM - 09:50 AM	WF	room 304 Noyes Laboratory	Yerkes, C; Jew, R
36205: Physical Sciences course.						
36205: Designed for Engineering Students.						
36206	quiz	AQ3	10:00 AM - 10:50 AM	WF	room 304 Noyes Laboratory	Yerkes, C; Jew, R

36206: Physical Sciences course.						
36206: Designed for Engineering Students.						
36210	quiz	AQ4	01:00 PM - 01:50 PM	WF	room 304 Noyes Laboratory	Yerkes, C; Tumuluru, S
36210: Physical Sciences course.						
36210: Designed for Engineering Students.						
36212	quiz	AQ5	10:00 AM - 10:50 AM	WF	room 300 Noyes Laboratory	Yerkes, C; Tumuluru, S
36212: Physical Sciences course.						
36212: Designed for Engineering Students.						
36213	quiz	AQ6	11:00 AM - 11:50 AM	WF	room 300 Noyes Laboratory	Yerkes, C; Jew, R
36213: Physical Sciences course.						
36213: Designed for Engineering Students.						
36214	quiz	AQ7	12:00 PM - 12:50 PM	WF	room 300 Noyes Laboratory	Yerkes, C; Castleberry, R
36214: Physical Sciences course.						
36214: Designed for Engineering Students.						
36215	quiz	AQ8	01:00 PM - 01:50 PM	WF	room 300 Noyes Laboratory	Yerkes, C; Castleberry, R
36215: Physical Sciences course.						
36215: Designed for Engineering Students.						
36216	quiz	AQ9	02:00 PM - 02:50 PM	WF	room 304 Noyes Laboratory	Yerkes, C; Patel, D
36216: Physical Sciences course.						
36216: Designed for Engineering Students.						
36217	quiz	AQA	02:00 PM - 02:50 PM	WF	room 300 Noyes Laboratory	Yerkes, C; Castleberry, R
36217: Physical Sciences course.						
36217: Designed for Engineering Students.						
36219	quiz	AQB	09:00 AM - 09:50 AM	WF	room 300 Noyes Laboratory	Yerkes, C; Gorski, E
36219: Physical Sciences course.						
36219: Designed for Engineering Students.						
36221	quiz	AQC	03:00 PM - 03:50 PM	WF	room 300 Noyes	Yerkes, C;

			PM		Laboratory	Castleberry, R
36221: Physical Sciences course.						
36221: Designed for Engineering Students.						
44023	quiz	AQJ	01:00 PM - 02:50 PM	WF	room 209 Noyes Laboratory	McKay, T; Adams, G
44023: Physical Sciences course.						
44023: Departmental Approval Required Restricted to Merit Workshop only. Call 244-8279 for information. Concurrent enrollment for 1 hour credit in the Merit Section of CHEM 199 is required (See CHEM 199). Departmental Approval Required.						
36109	lecture	BL1	12:00 PM - 12:50 PM	TR	room 100 Noyes Laboratory	Decoste, D
36109: Physical Sciences course.						
36133	quiz	BQ1	11:00 AM - 11:50 AM	WF	room 9 Chemistry Annex	Decoste, D; Carberry, T
36133: Physical Sciences course.						
36134	quiz	BQ2	09:00 AM - 09:50 AM	WF	room 204 Noyes Laboratory	Decoste, D; Gerdt, J
36134: Physical Sciences course.						
36135	quiz	BQ3	10:00 AM - 10:50 AM	WF	room 204 Noyes Laboratory	Decoste, D; Gerdt, J
36135: Physical Sciences course.						
36136	quiz	BQ4	11:00 AM - 11:50 AM	WF	room 204 Noyes Laboratory	Decoste, D; Mohan, S
36136: Physical Sciences course.						
36138	quiz	BQ5	12:00 PM - 12:50 PM	WF	room 9 Chemistry Annex	Decoste, D; Carberry, T
36138: Physical Sciences course.						
36138: James Scholar course. James Scholar students will be expected to complete an additional honors assignment (HCLA required).						
36139	quiz	BQ6	12:00 PM - 12:50 PM	WF	room 204 Noyes Laboratory	Decoste, D; Rodriguez, L
36139: Physical Sciences course.						
36142	quiz	BQ9	09:00 AM - 09:50 AM	WF	room 9 Chemistry Annex	Decoste, D; Ebisu, R
36142: Physical Sciences course.						
36142: James scholar section. James Scholar students will be expected to complete an additional honors assignment (HCLA required).						

36143	quiz	BQA	02:00 PM - 02:50 PM	WF	room 204 Noyes Laboratory	Decoste, D; Mohan, S
36143: Physical Sciences course.						
36144	quiz	BQB	03:00 PM - 03:50 PM	WF	room 204 Noyes Laboratory	Decoste, D; Ebisu, R
36144: Physical Sciences course.						
36146	quiz	BQD	01:00 PM - 01:50 PM	WF	room 204 Noyes Laboratory	Decoste, D; Rodriguez, L
36146: Physical Sciences course.						
44062	quiz	BQG	09:00 AM - 09:50 AM	MW	room 5 FAR - Food Service Bldg	Decoste, D; Rodriguez, L
44062: Physical Sciences course.						
44062: This section is reserved for WIMSE students.						
36148	lecture	CL1	10:00 AM - 10:50 AM	MW	room 100 Noyes Laboratory	Hummel, T
36148: Physical Sciences course.						
48521	lecture	CL2	10:00 AM - 10:50 AM	MW	room 9 Chemistry Annex	Hummel, T
48521: Physical Sciences course.						
36150	quiz	CQ1	10:00 AM - 10:50 AM	TR	room 300 Noyes Laboratory	Hummel, T; Carroll, V
36150: Physical Sciences course.						
36152	quiz	CQ2	11:00 AM - 11:50 AM	TR	room 300 Noyes Laboratory	Hummel, T; Carroll, V
36152: Physical Sciences course.						
36154	quiz	CQ3	12:00 PM - 12:50 PM	TR	room 300 Noyes Laboratory	Hummel, T; Steineke, N
36154: Physical Sciences course.						
36156	quiz	CQ4	01:00 PM - 01:50 PM	TR	room 300 Noyes Laboratory	Hummel, T; Steineke, N
36156: Physical Sciences course.						
36159	quiz	CQ5	02:00 PM - 02:50 PM	TR	room 300 Noyes Laboratory	Hummel, T; Carroll, V
36159: Physical Sciences course.						
36160	quiz	CQ6	09:00 AM - 09:50 AM	TR	room 301 Noyes Laboratory	Hummel, T; Marquard, S

36160: Physical Sciences course.						
36162	quiz	CQ7	10:00 AM - 10:50 AM	TR	room 301 Noyes Laboratory	Hummel, T; Marquard, S
36162: Physical Sciences course.						
36163	quiz	CQ8	11:00 AM - 11:50 AM	TR	room 301 Noyes Laboratory	Hummel, T; Marquard, S
36163: Physical Sciences course.						
36171	quiz	CQC	09:00 AM - 10:50 AM	TR	room 111 Noyes Laboratory	Hummel, T; Daugherty, T
36171: Physical Sciences course.						
36171: Departmental Approval Required Merit Workshops only. Call 244-8279 for information. Concurrent enrollment for 1 hour credit in the Merit Section of CHEM 199 is required (See CHEM 199).						
36173	quiz	CQD	11:00 AM - 12:50 PM	TR	room 111 Noyes Laboratory	Hummel, T; Katt, M
36173: Physical Sciences course.						
36173: Departmental Approval Required Merit Workshops only. Call 244-8279 for information. Concurrent enrollment for 1 hour credit in the Merit Section of CHEM 199 is required (See CHEM 199).						
40124	quiz	CQE	09:00 AM - 10:50 AM	TR	room 209 Noyes Laboratory	Hummel, T; Thorngren, D
40124: Physical Sciences course.						
40124: Departmental Approval Required Merit Workshops only. Call 244-8279 for information. Concurrent enrollment for 1 hour credit in the Merit Section of CHEM 199 is required (See CHEM 199).						
48904	lecture	DL1	02:00 PM - 02:50 PM	MW	room 100 Noyes Laboratory	Hummel, T
48904: Physical Sciences course.						
48905	quiz	DQ1	09:00 AM - 09:50 AM	TR	room 204 Noyes Laboratory	Chary, A; Hummel, T
48905: Physical Sciences course.						
48906	quiz	DQ2	10:00 AM - 10:50 AM	TR	room 204 Noyes Laboratory	Hummel, T; Wilson, R
48906: Physical Sciences course.						
48907	quiz	DQ3	11:00 AM - 11:50 AM	TR	room 204 Noyes Laboratory	Hummel, T; Wilson, R
48907: Physical Sciences course.						
48908	quiz	DQ4	12:00 PM - 12:50 PM	TR	room 204 Noyes Laboratory	Hummel, T; Wilson, R
48908: Physical Sciences course.						

48909	quiz	DQ5	01:00 PM - 01:50 PM	TR	room 204 Noyes Laboratory	Hummel, T; Wilson, R
48909: Physical Sciences course.						
48910	quiz	DQ6	02:00 PM - 02:50 PM	TR	room 204 Noyes Laboratory	Hummel, T; Zill, A
48910: Physical Sciences course.						
48911	quiz	DQ7	03:00 PM - 03:50 PM	TR	room 204 Noyes Laboratory	Chary, A; Hummel, T
48911: Physical Sciences course.						
48913	quiz	DQ9	11:00 AM - 11:50 AM	TR	room 9 Chemistry Annex	Hummel, T; Zill, A
48913: Physical Sciences course.						
48914	quiz	DQA	12:00 PM - 12:50 PM	TR	room 9 Chemistry Annex	Hummel, T; Zill, A
48914: Physical Sciences course.						
48915	quiz	DQB	01:00 PM - 01:50 PM	TR	room 9 Chemistry Annex	Hummel, T; Zill, A
48915: Physical Sciences course.						
49003	quiz	DQD	11:00 AM - 12:50 PM	TR	room 209 Noyes Laboratory	Komperda, R; Adams, G
49003: Physical Sciences course.						
49003: Departmental Approval Required						
49004	quiz	DQE	01:00 PM - 02:50 PM	TR	room 209 Noyes Laboratory	Komperda, R; Adams, G
49004: Physical Sciences course.						
49004: Departmental Approval Required						
47349	lecture	EL1	01:00 PM - 01:50 PM	TR	room 100 Noyes Laboratory	Yerkes, C
47349: Physical Sciences course.						
47351	quiz	EQ2	11:00 AM - 11:50 AM	WF	room 19 Noyes Laboratory	Yerkes, C; Lee, F
47351: Physical Sciences course.						
47352	quiz	EQ3	12:00 PM - 12:50 PM	WF	room 19 Noyes Laboratory	Yerkes, C; Lee, F
47352: Physical Sciences course.						
47353	quiz	EQ4	01:00 PM - 01:50 PM	WF	room 19 Noyes Laboratory	Yerkes, C; Klinkenberg, J

47353: Physical Sciences course.						
47354	quiz	EQ5	02:00 PM - 02:50 PM	WF	room 19 Noyes Laboratory	Yerkes, C; Klinkenberg, J
47354: Physical Sciences course.						
48891	quiz	EQ7	09:00 AM - 09:50 AM	WF	room 203 Noyes Laboratory	Yerkes, C; Patel, D
48891: Physical Sciences course.						
48892	quiz	EQ8	10:00 AM - 10:50 AM	WF	room 203 Noyes Laboratory	Yerkes, C; Washburn, A
48892: Physical Sciences course.						
48893	quiz	EQ9	11:00 AM - 11:50 AM	WF	room 203 Noyes Laboratory	Yerkes, C; Washburn, A
48893: Physical Sciences course.						
48894	quiz	EQA	12:00 PM - 12:50 PM	WF	room 203 Noyes Laboratory	Yerkes, C; Washburn, A
48894: Physical Sciences course.						
48895	quiz	EQB	01:00 PM - 01:50 PM	WF	room 203 Noyes Laboratory	Yerkes, C; Washburn, A
48895: Physical Sciences course.						
48896	quiz	EQC	02:00 PM - 02:50 PM	WF	room 203 Noyes Laboratory	Yerkes, C; Gorski, E
48896: Physical Sciences course.						
47359	lecture	FL1	01:00 PM - 01:50 PM	MW	room 100 Noyes Laboratory	Weaver, J
47359: Physical Sciences course.						
47360	quiz	FQ1	11:00 AM - 11:50 AM	TR	room 19 Noyes Laboratory	Weaver, J; Reich, J
47360: Physical Sciences course.						
47361	quiz	FQ2	12:00 PM - 12:50 PM	TR	room 19 Noyes Laboratory	Weaver, J; Reich, J
47361: Physical Sciences course.						
47362	quiz	FQ3	01:00 PM - 01:50 PM	TR	room 19 Noyes Laboratory	Weaver, J; Reich, J
47362: Physical Sciences course.						
47363	quiz	FQ4	02:00 PM - 02:50 PM	TR	room 19 Noyes Laboratory	Weaver, J; Reich, J
47363: Physical Sciences course.						

48898	quiz	FQ7	09:00 AM - 09:50 AM	TR	room 203 Noyes Laboratory	Phelan, B; Weaver, J
48898: Physical Sciences course.						
48899	quiz	FQ8	10:00 AM - 10:50 AM	TR	room 203 Noyes Laboratory	Phelan, B; Weaver, J
48899: Physical Sciences course.						
48900	quiz	FQ9	11:00 AM - 11:50 AM	TR	room 203 Noyes Laboratory	Weaver, J; Shellhamer, D
48900: Physical Sciences course.						
48902	quiz	FQB	01:00 PM - 01:50 PM	TR	room 203 Noyes Laboratory	Weaver, J; Shellhamer, D
48902: Physical Sciences course.						
48903	quiz	FQC	02:00 PM - 02:50 PM	TR	room 203 Noyes Laboratory	Weaver, J; Shellhamer, D
48903: Physical Sciences course.						
36237	lecture	LC1	10:00 AM - 10:50 AM	MW	room 100 Noyes Laboratory	Hummel, T
36237: Physical Sciences course.						
36237: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program please go to <a href="http://www.las.uiuc.edu/learningcommunity/">http://www.las.uiuc.edu/learningcommunity/</a> Must enroll concurrently in LAS 100 47424.						
38888	lecture	LC2	10:00 AM - 10:50 AM	MW	room 100 Noyes Laboratory	Hummel, T
38888: Physical Sciences course.						
38888: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program please go to <a href="http://www.las.uiuc.edu/learningcommunity/">http://www.las.uiuc.edu/learningcommunity/</a> Must enroll concurrently in LAS 100 47425.						
36242	lecture	LC3	10:00 AM - 10:50 AM	MW	room 100 Noyes Laboratory	Hummel, T
36242: Physical Sciences course.						
36242: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program please go to <a href="http://www.las.uiuc.edu/learningcommunity/">http://www.las.uiuc.edu/learningcommunity/</a> Must enroll concurrently in LAS 100 47426.						
38891	lecture	LC4	10:00 AM - 10:50 AM	MW	room 100 Noyes Laboratory	Hummel, T
38891: Physical Sciences course.						
38891: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program please go to <a href="http://www.las.uiuc.edu/learningcommunity/">http://www.las.uiuc.edu/learningcommunity/</a> Must enroll concurrently in LAS 100 47427.						
42854	quiz	LQ1	12:00 PM - 12:50 PM	TR	room 301 Noyes Laboratory	Hummel, T; Marquard, S
42854: Physical Sciences course.						

42854: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program please go to <a href="http://www.las.uiuc.edu/learningcommunity/">http://www.las.uiuc.edu/learningcommunity/</a> Must enroll concurrently in LAS 100 47424.						
36182	quiz	LQ2	12:00 PM - 12:50 PM	TR	room 301 Noyes Laboratory	Hummel, T; Marquard, S
36182: Physical Sciences course.						
36182: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program please go to <a href="http://www.las.uiuc.edu/learningcommunity/">http://www.las.uiuc.edu/learningcommunity/</a> Must enroll concurrently in LAS 100 47425.						
43851	quiz	LQ3	01:00 PM - 01:50 PM	TR	room 301 Noyes Laboratory	Hummel, T; Carroll, V
43851: Physical Sciences course.						
43851: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program please go to <a href="http://www.las.uiuc.edu/learningcommunity/">http://www.las.uiuc.edu/learningcommunity/</a> Must enroll concurrently in LAS 100 47426.						
47348	quiz	LQ4	01:00 PM - 01:50 PM	TR	room 301 Noyes Laboratory	Hummel, T; Carroll, V
47348: Physical Sciences course.						
47348: Reserved for incoming LAS freshmen only. If you have questions about your qualifications for this program please go to <a href="http://www.las.uiuc.edu/learningcommunity/">http://www.las.uiuc.edu/learningcommunity/</a> Must enroll concurrently in LAS 100 47427.						

103 **General Chemistry Lab I** credit: 1 hours.

Laboratory studies to accompany CHEM 102. Prerequisite: Credit or concurrent registration in CHEM 102 is required.

This course satisfies the General Education Criteria for a Physical Sciences course.

CHEM 103 is the laboratory course that accompanies CHEM 102. Students may not receive credit for both CHEM 103 and CHEM 203. Engineering students must obtain a dean's approval to drop this course after the second week of instruction. CHEM 102 and CHEM 103 are approved for General Education credit only as a sequence. Both courses must be completed to receive Natural Science and Technology credit.

CRN	Type	Section	Time	Days	Location	Instructor
42868	laboratory	R17	11:00 AM - 01:50 PM	F	room 201 Chemistry Annex	Weaver, J; Buthker, J
42868: Physical Sciences course.						
48956	laboratory	R18	08:00 AM - 10:50 AM	F	room 1 Chemistry Annex	Weaver, J; Shi, T
48956: Physical Sciences course.						
36375	laboratory	R20	11:00 AM - 01:50 PM	M	room 1 Chemistry Annex	Weaver, J; Brueckner, E
36375: Physical Sciences course.						
36377	laboratory	R21	11:00 AM - 01:50 PM	M	room 1 Chemistry Annex	Weaver, J; Gao, Y
36377: Physical Sciences course.						

36380	laboratory	R28	11:00 AM - 01:50 PM	F	room 201 Chemistry Annex	Weaver, J; Brueckner, E
36380: Physical Sciences course.						
36396	laboratory	R29	11:00 AM - 01:50 PM	F	room 1 Chemistry Annex	Weaver, J; Gao, Y
36396: Physical Sciences course.						
36400	laboratory	R30	02:00 PM - 04:50 PM	M	room 1 Chemistry Annex	Weaver, J; Momand, J
36400: Physical Sciences course.						
36406	laboratory	R31	02:00 PM - 04:50 PM	M	room 1 Chemistry Annex	Chan, J; Weaver, J
36406: Physical Sciences course.						
36410	laboratory	R32	02:00 PM - 04:50 PM	T	room 1 Chemistry Annex	Anderson, J; Weaver, J
36410: Physical Sciences course.						
36415	laboratory	R33	02:00 PM - 04:50 PM	T	room 1 Chemistry Annex	Fanizza, M; Weaver, J
36415: Physical Sciences course.						
36420	laboratory	R34	02:00 PM - 04:50 PM	W	room 1 Chemistry Annex	Pimentel, E; Weaver, J
36420: Physical Sciences course.						
36428	laboratory	R35	02:00 PM - 04:50 PM	W	room 1 Chemistry Annex	Kolar, J; Weaver, J
36428: Physical Sciences course.						
36431	laboratory	R36	02:00 PM - 04:50 PM	R	room 1 Chemistry Annex	Markwell, S; Weaver, J
36431: Physical Sciences course.						
36437	laboratory	R37	02:00 PM - 04:50 PM	R	room 1 Chemistry Annex	Rosenberg, A; Weaver, J
36437: Physical Sciences course.						
36465	laboratory	R38	02:00 PM - 04:50 PM	F	room 1 Chemistry Annex	Weaver, J; Momand, J
36465: Physical Sciences course.						
36468	laboratory	R39	02:00 PM - 04:50 PM	F	room 1 Chemistry Annex	Weaver, J
36468: Physical Sciences course.						
36473	laboratory	R50	08:00 AM - 10:50	M	room 201	Abram, D; Weaver, J

			AM		Chemistry Annex	
36473: Physical Sciences course.						
36476	laboratory	R51	08:00 AM - 10:50 AM	M	room 201 Chemistry Annex	Weaver, J; Zeiger, B
36476: Physical Sciences course.						
36481	laboratory	R56	08:00 AM - 10:50 AM	R	room 201 Chemistry Annex	Chen, Q; Weaver, J
36481: Physical Sciences course.						
36493	laboratory	R57	08:00 AM - 10:50 AM	R	room 201 Chemistry Annex	Weaver, J; Shi, T
36493: Physical Sciences course.						
36497	laboratory	R58	08:00 AM - 10:50 AM	F	room 201 Chemistry Annex	Weaver, J; Zeiger, B
36497: Physical Sciences course.						
36503	laboratory	R59	08:00 AM - 10:50 AM	F	room 201 Chemistry Annex	Bayoumi, M; Weaver, J
36503: Physical Sciences course.						
36515	laboratory	R60	11:00 AM - 01:50 PM	M	room 201 Chemistry Annex	Weaver, J; Buthker, J
36515: Physical Sciences course.						
36534	laboratory	R62	11:00 AM - 01:50 PM	T	room 201 Chemistry Annex	Chen, Q; Weaver, J
36534: Physical Sciences course.						
36548	laboratory	R66	11:00 AM - 01:50 PM	R	room 201 Chemistry Annex	Robinson, D; Weaver, J
36548: Physical Sciences course.						
36562	laboratory	R70	02:00 PM - 04:50 PM	M	room 201 Chemistry Annex	Fina, P; Weaver, J
36562: Physical Sciences course.						
36567	laboratory	R71	02:00 PM - 04:50 PM	M	room 201 Chemistry Annex	Hodges, A; Weaver, J
36567: Physical Sciences course.						
36573	laboratory	R72	02:00 PM - 04:50 PM	T	room 201 Chemistry Annex	Anderson, N; Weaver, J
36573: Physical Sciences course.						
36578	laboratory	R73	02:00 PM - 04:50 PM	T	room 201 Chemistry Annex	Robinson, D; Weaver, J

36578: Physical Sciences course.						
36583	laboratory	R74	02:00 PM - 04:50 PM	W	room 201 Chemistry Annex	Anderson, N; Weaver, J
36583: Physical Sciences course.						
36591	laboratory	R75	02:00 PM - 04:50 PM	W	room 201 Chemistry Annex	Bendis, E; Weaver, J
36591: Physical Sciences course.						
42864	laboratory	R76	02:00 PM - 04:50 PM	R	room 201 Chemistry Annex	Dahlgren, S; Weaver, J
42864: Physical Sciences course.						
42866	laboratory	R77	02:00 PM - 04:50 PM	R	room 201 Chemistry Annex	Reid, C; Weaver, J
42866: Physical Sciences course.						
48955	laboratory	S17	11:00 AM - 01:50 PM	F	room 201 Chemistry Annex	Weaver, J; Buthker, J
48955: Physical Sciences course.						
48957	laboratory	S18	08:00 AM - 10:50 AM	F	room 1 Chemistry Annex	Weaver, J; Shi, T
48957: Physical Sciences course.						
36376	laboratory	S20	11:00 AM - 01:50 PM	M	room 1 Chemistry Annex	Weaver, J; Brueckner, E
36376: Physical Sciences course.						
36378	laboratory	S21	11:00 AM - 01:50 PM	M	room 1 Chemistry Annex	Weaver, J; Gao, Y
36378: Physical Sciences course.						
36393	laboratory	S28	11:00 AM - 01:50 PM	F	room 1 Chemistry Annex	Weaver, J; Brueckner, E
36393: Physical Sciences course.						
36398	laboratory	S29	11:00 AM - 01:50 PM	F	room 1 Chemistry Annex	Weaver, J; Gao, Y
36398: Physical Sciences course.						
36402	laboratory	S30	02:00 PM - 04:50 PM	M	room 1 Chemistry Annex	Weaver, J; Momand, J
36402: Physical Sciences course.						
36409	laboratory	S31	02:00 PM - 04:50 PM	M	room 1 Chemistry Annex	Chan, J; Weaver, J
36409: Physical Sciences course.						

36413	laboratory	S32	02:00 PM - 04:50 PM	T	room 1 Chemistry Annex	Anderson, J; Weaver, J
36413: Physical Sciences course.						
36418	laboratory	S33	02:00 PM - 04:50 PM	T	room 1 Chemistry Annex	Fanizza, M; Weaver, J
36418: Physical Sciences course.						
36424	laboratory	S34	02:00 PM - 04:50 PM	W	room 1 Chemistry Annex	Pimentel, E; Weaver, J
36424: Physical Sciences course.						
36429	laboratory	S35	02:00 PM - 04:50 PM	W	room 1 Chemistry Annex	Kolar, J; Weaver, J
36429: Physical Sciences course.						
36433	laboratory	S36	02:00 PM - 04:50 PM	R	room 1 Chemistry Annex	Markwell, S; Weaver, J
36433: Physical Sciences course.						
36440	laboratory	S37	02:00 PM - 04:50 PM	R	room 1 Chemistry Annex	Rosenberg, A; Weaver, J
36440: Physical Sciences course.						
36467	laboratory	S38	02:00 PM - 04:50 PM	F	room 1 Chemistry Annex	Weaver, J; Momand, J
36467: Physical Sciences course.						
36471	laboratory	S39	02:00 PM - 04:50 PM	F	room 1 Chemistry Annex	Weaver, J
36471: Physical Sciences course.						
36475	laboratory	S50	08:00 AM - 10:50 AM	M	room 201 Chemistry Annex	Abram, D; Weaver, J
36475: Physical Sciences course.						
36479	laboratory	S51	08:00 AM - 10:50 AM	M	room 201 Chemistry Annex	Weaver, J; Zeiger, B
36479: Physical Sciences course.						
36490	laboratory	S56	08:00 AM - 10:50 AM	R	room 201 Chemistry Annex	Chen, Q; Weaver, J
36490: Physical Sciences course.						
36495	laboratory	S57	08:00 AM - 10:50 AM	R	room 201 Chemistry Annex	Weaver, J; Shi, T
36495: Physical Sciences course.						
36500	laboratory	S58	08:00 AM - 10:50 AM	F	room 201	Weaver, J; Zeiger, B

			AM		Chemistry Annex	
36500: Physical Sciences course.						
36510	laboratory	S59	08:00 AM - 10:50 AM	F	room 201 Chemistry Annex	Bayoumi, M; Weaver, J
36510: Physical Sciences course.						
36520	laboratory	S60	11:00 AM - 01:50 PM	M	room 201 Chemistry Annex	Weaver, J; Buthker, J
36520: Physical Sciences course.						
36539	laboratory	S62	11:00 AM - 01:50 PM	T	room 201 Chemistry Annex	Chen, Q; Weaver, J
36539: Physical Sciences course.						
36564	laboratory	S70	02:00 PM - 04:50 PM	M	room 201 Chemistry Annex	Fina, P; Weaver, J
36564: Physical Sciences course.						
36571	laboratory	S71	02:00 PM - 04:50 PM	M	room 201 Chemistry Annex	Hodges, A; Weaver, J
36571: Physical Sciences course.						
36575	laboratory	S72	02:00 PM - 04:50 PM	T	room 201 Chemistry Annex	Anderson, N; Weaver, J
36575: Physical Sciences course.						
36589	laboratory	S74	02:00 PM - 04:50 PM	W	room 201 Chemistry Annex	Anderson, N; Weaver, J
36589: Physical Sciences course.						
41956	laboratory	S75	02:00 PM - 04:50 PM	W	room 201 Chemistry Annex	Bendis, E; Weaver, J
41956: Physical Sciences course.						
42865	laboratory	S76	02:00 PM - 04:50 PM	R	room 201 Chemistry Annex	Dahlgren, S; Weaver, J
42865: Physical Sciences course.						
42867	laboratory	S77	02:00 PM - 04:50 PM	R	room 201 Chemistry Annex	Reid, C; Weaver, J
42867: Physical Sciences course.						

104 **General Chemistry II** credit: 3 hours.

Lecture and discussions. Section A, B and C (Biological Version): Chemistry of organic and biochemical systems, chemical energetics and equilibrium, chemical kinetics, and reaction mechanisms. Section D (Engineering Version): Chemistry of materials, including organic and biological substances, chemical energetics and equilibrium, chemical kinetics, and solids and crystals. Students may not receive credit for both CHEM 104 and CHEM 204. Prerequisite:

CHEM 102 or CHEM 202 or advanced placement credit for one semester of college-level chemistry.

This course satisfies the General Education Criteria for a Physical Sciences course.

All students enrolled in CHEM 104 should also enroll in CHEM 105. Students must register for one quiz and one lecture section. Engineering students must obtain a dean's approval to drop this course after the second week of instruction. Students must register for one lecture and one quiz section beginning with the same letter. CHEM 104 and CHEM 105 are approved for General Education credit only as a sequence. Both courses must be completed to receive Natural Science and Technology credit.

CRN	Type	Section	Time	Days	Location	Instructor
36274	lecture	AL1	09:00 AM - 09:50 AM	TR	room 100 Noyes Laboratory	Ray, C
36274: Physical Sciences course.						
36274: Designed for students in the Life Sciences and related areas.						
36351	lecture	AL2	09:00 AM - 09:50 AM	TR	room 19 Noyes Laboratory	Ray, C
36351: Physical Sciences course.						
36351: Designed for students in the Life Sciences and related areas.						
36279	quiz	AQ1	09:00 AM - 09:50 AM	WF	room 301 Noyes Laboratory	Ray, C; Madrahimov, S
36279: Physical Sciences course.						
36296	quiz	AQ2	11:00 AM - 11:50 AM	WF	room 301 Noyes Laboratory	Ray, C; Murphy, B
36296: Physical Sciences course.						
36298	quiz	AQ3	12:00 PM - 12:50 PM	WF	room 301 Noyes Laboratory	Ray, C; Jeong, C
36298: Physical Sciences course.						
36300	quiz	AQ4	01:00 PM - 01:50 PM	WF	room 301 Noyes Laboratory	Ray, C; Kryger, M
36300: Physical Sciences course.						
36302	quiz	AQ5	02:00 PM - 02:50 PM	WF	room 301 Noyes Laboratory	Ray, C; Murphy, B
36302: Physical Sciences course.						
36305	quiz	AQ6	03:00 PM - 03:50 PM	WF	room 301 Noyes Laboratory	Ray, C; Landry, M
36305: Physical Sciences course.						
36310	quiz	AQ8	09:00 AM - 09:50 AM	WF	room 303 Noyes Laboratory	Ray, C; Kryger, M
36310: Physical Sciences course.						

36338	quiz	AQ9	10:00 AM - 10:50 AM	WF	room 303 Noyes Laboratory	Ray, C; Kryger, M
36338: Physical Sciences course.						
36340	quiz	AQA	11:00 AM - 11:50 AM	WF	room 303 Noyes Laboratory	Ray, C; Ahlf, D
36340: Physical Sciences course.						
36342	quiz	AQB	12:00 PM - 12:50 PM	WF	room 303 Noyes Laboratory	Ray, C; Ahlf, D
36342: Physical Sciences course.						
36344	quiz	AQC	01:00 PM - 01:50 PM	WF	room 303 Noyes Laboratory	Ray, C; Jeong, C
36344: Physical Sciences course.						
36346	quiz	AQD	03:00 PM - 03:50 PM	WF	room 303 Noyes Laboratory	Ray, C; Chowdhury, T
36346: Physical Sciences course.						
41189	quiz	AQF	11:00 AM - 12:50 PM	WF	room 111 Noyes Laboratory	Ray, C; Fisher, E
41189: Physical Sciences course.						
41189: Departmental Approval RequiredDepartmental Approval Required. Merit Workshops only. Call 244-8279 for information. Concurrent enrollment for 1 hour credit in the Merit Section of CHEM 199 is required (see CHEM 199).						
47626	quiz	AQG	09:00 AM - 10:50 AM	WF	room 111 Noyes Laboratory	Ray, C; Fisher, E
47626: Physical Sciences course.						
47626: Departmental Approval RequiredDepartmental Approval Required. Merit Workshops only. Call 244-8279 for information. Concurrent enrollment for 1 hour credit in the Merit Section of CHEM 199 is required (see CHEM 199).						
36355	lecture	CL1	03:00 PM - 03:50 PM	MW	room 100 Noyes Laboratory	Ray, C
36355: Physical Sciences course.						
36355: Designed for most engineering students.						
48195	lecture	CL2	03:00 PM - 03:50 PM	MW	room 304 Noyes Laboratory	Ray, C
48195: Physical Sciences course.						
48195: Designed for most engineering students.						
36358	quiz	CQ1	10:00 AM - 10:50 AM	TR	room 152 Chemistry Annex	Ray, C; Madrahimov, S
36358: Physical Sciences course.						

36358: Designed for most engineering students.						
36360	quiz	CQ2	12:00 PM - 12:50 PM	TR	room 152 Chemistry Annex	Ray, C; Madrahimov, S
36360: Physical Sciences course.						
36360: Designed for most engineering students.						
36366	quiz	CQ3	01:00 PM - 01:50 PM	TR	room 152 Chemistry Annex	Ray, C; Ahlf, D
36366: Physical Sciences course.						
36366: Designed for most engineering students.						
36368	quiz	CQ4	02:00 PM - 02:50 PM	TR	room 152 Chemistry Annex	Ray, C; Ahlf, D
36368: Physical Sciences course.						
36368: Designed for most engineering students.						
36372	quiz	CQ5	11:00 AM - 11:50 AM	TR	room 152 Chemistry Annex	Ray, C; Madrahimov, S
36372: Physical Sciences course.						
36372: Designed for most engineering students.						
41953	quiz	CQ6	11:00 AM - 11:50 AM	TR	room 303 Noyes Laboratory	Ray, C; Kryger, M
41953: Physical Sciences course.						
41953: Designed for most engineering students.						
42857	quiz	CQ7	12:00 PM - 12:50 PM	TR	room 303 Noyes Laboratory	Ray, C; Jeong, C
42857: Physical Sciences course.						
42857: Designed for most engineering students.						
45614	quiz	CQA	01:00 PM - 01:50 PM	TR	room 303 Noyes Laboratory	Ray, C; Blakely, K
45614: Physical Sciences course.						
45614: Designed for most engineering students.						
45615	quiz	CQB	02:00 PM - 02:50 PM	TR	room 303 Noyes Laboratory	Ray, C; Blakely, K
45615: Physical Sciences course.						
45615: Designed for most engineering students.						
45643	quiz	CQC	03:00 PM - 03:50 PM	TR	room 152 Chemistry Annex	Ray, C; Landry, M

45643: Physical Sciences course.						
45643: Designed for most engineering students.						
45644	quiz	CQD	03:00 PM - 03:50 PM	TR	room 303 Noyes Laboratory	Ray, C; Jeong, C
45644: Physical Sciences course.						
48196	quiz	CQE	09:00 AM - 09:50 AM	TR	room 152 Chemistry Annex	Ray, C; Chowdhury, T
48196: Physical Sciences course.						
48196: Designed for most engineering students.						

105 **General Chemistry Lab II** credit: 1 hours.

Laboratory studies to accompany CHEM 104. Prerequisite: CHEM 102 and CHEM 103; credit or concurrent registration in CHEM 104 is required.

This course satisfies the General Education Criteria for a Physical Sciences course.

CHEM 105 is the laboratory course that accompanies CHEM 104. Students may not receive credit for both CHEM 105 and CHEM 205. Engineering students must obtain a dean's approval to drop this course after the second week of instruction. CHEM 102 and CHEM 103 are approved for General Education credit only as a sequence. Both courses must be completed to receive Natural Science and Technology credit.

CRN	Type	Section	Time	Days	Location	Instructor
36593	laboratory	X11	08:00 AM - 10:50 AM	F	room 101 Chemistry Annex	Flener, C; Chang, W
36593: Physical Sciences course.						
36599	laboratory	X41	11:00 AM - 01:50 PM	M	room 101 Chemistry Annex	Flener, C; Carberry, T
36599: Physical Sciences course.						
36601	laboratory	X43	11:00 AM - 01:50 PM	T	room 101 Chemistry Annex	Flener, C; Chang, W
36601: Physical Sciences course.						
36612	laboratory	X44	11:00 AM - 01:50 PM	T	room 101 Chemistry Annex	Flener, C; Butcher, D
36612: Physical Sciences course.						
36686	laboratory	X45	11:00 AM - 01:50 PM	R	room 101 Chemistry Annex	Flener, C; Lin, E
36686: Physical Sciences course.						
48963	laboratory	X47	11:00 AM - 01:50 PM	F	room 101 Chemistry Annex	Flener, C; Butcher, D
48963: Physical Sciences course.						

36617	laboratory	X71	02:00 PM - 04:50 PM	M	room 101 Chemistry Annex	Flener, C; Lau, Y
36617: Physical Sciences course.						
36676	laboratory	X73	02:00 PM - 04:50 PM	T	room 101 Chemistry Annex	Flener, C; Lin, E
36676: Physical Sciences course.						
36683	laboratory	X74	02:00 PM - 04:50 PM	T	room 101 Chemistry Annex	Flener, C; Cha, C
36683: Physical Sciences course.						
36687	laboratory	X75	02:00 PM - 04:50 PM	R	room 101 Chemistry Annex	Flener, C; Cha, C
36687: Physical Sciences course.						
45645	laboratory	X76	02:00 PM - 04:50 PM	R	room 101 Chemistry Annex	Flener, C; Lee, P
45645: Physical Sciences course.						
41954	laboratory	X77	02:00 PM - 04:50 PM	F	room 101 Chemistry Annex	Flener, C; Mackiewicz, A
41954: Physical Sciences course.						
48958	laboratory	Z11	08:00 AM - 10:50 AM	F	room 101 Chemistry Annex	Flener, C; Chang, W
48958: Physical Sciences course.						
48959	laboratory	Z41	11:00 AM - 01:50 PM	M	room 101 Chemistry Annex	Flener, C; Carberry, T
48959: Physical Sciences course.						
36609	laboratory	Z43	11:00 AM - 01:50 PM	T	room 101 Chemistry Annex	Flener, C; Chang, W
36609: Physical Sciences course.						
42869	laboratory	Z44	11:00 AM - 01:50 PM	T	room 101 Chemistry Annex	Flener, C; Butcher, D
42869: Physical Sciences course.						
42872	laboratory	Z45	11:00 AM - 01:50 PM	R	room 101 Chemistry Annex	Flener, C; Lin, E
42872: Physical Sciences course.						
48964	laboratory	Z47	11:00 AM - 01:50 PM	F	room 101 Chemistry Annex	Flener, C; Butcher, D
48964: Physical Sciences course.						
36678	laboratory	Z71	02:00 PM - 04:50	M	room 101	Flener, C; Lau, Y

			PM		Chemistry Annex	
36678: Physical Sciences course.						
36679	laboratory	Z73	02:00 PM - 04:50 PM	T	room 101 Chemistry Annex	Flener, C; Lin, E
36679: Physical Sciences course.						
42871	laboratory	Z74	02:00 PM - 04:50 PM	T	room 101 Chemistry Annex	Flener, C; Cha, C
42871: Physical Sciences course.						
36689	laboratory	Z75	02:00 PM - 04:50 PM	R	room 101 Chemistry Annex	Flener, C; Cha, C
36689: Physical Sciences course.						
45646	laboratory	Z76	02:00 PM - 04:50 PM	R	room 101 Chemistry Annex	Flener, C; Lee, P
45646: Physical Sciences course.						
41955	laboratory	Z77	02:00 PM - 04:50 PM	F	room 101 Chemistry Annex	Flener, C; Mackiewicz, A
41955: Physical Sciences course.						

199 **Undergraduate Open Seminar** credit: 1 to 5 hours.  
Approved for both letter and S/U grading. May be repeated.

CRN	Type	Section	Time	Days	Location	Instructor
10505	independent study		ARRANGED			
10505: Departmental Approval Required						
49005	discussion-recitation	GC	03:00 PM - 04:50 PM	R	room 111 Noyes Laboratory	Adams, G
49005: 1 hoursDepartmental Approval Required						
43653	conference	K	ARRANGED			Denofrio, L
43653: 2 hoursDepartmental Approval RequiredStudents will work to administer the Kids and Chemistry Outreach program. Students will work hands-on with elementary age children as well as train their peers to work in elementary school classrooms. Students will create new curricula, improve past curricula, maintain the materials for the program, and share administrative duties such as scheduling classroom visits and training sessions.						
49481	discussion-recitation	LDR	ARRANGED			Adams, G
49481: 1 hoursDepartmental Approval RequiredSupplemental Instruction Leadership Program: This course is designated for leaders in the SI Program.						

31588	discussion-recitation	M	ARRANGED			Adams, G
31588: 1 hoursStudents in Merit Workshop sections must register in 1 hour CHEM 199 credit concurrent with enrollment in the appropriate course.						
47588	discussion-recitation	R	03:00 PM - 04:50 PM	R	room 209 Noyes Laboratory	Adams, G
47588: 1 hoursDepartmental Approval RequiredStudents in Merit Workshop sections must register in 1 hour CHEM 199 credit concurrent with enrollment in the appropriate course.						
31573	conference	S	05:00 PM - 06:20 PM	M	room 165 Noyes Laboratory	Miller, J
31573: 2 hoursScience Education and Research for Children. Students will work two hours per week in classroom or after-school settings to engage children in hands-on-science activities. An additional two hours are devoted to developing activities and materials.						
47589	discussion-recitation	T	03:00 PM - 04:50 PM	W	room 209 Noyes Laboratory	Adams, G
47589: 1 hoursStudents in Merit Workshop sections must register in 1 hour CHEM 199 credit concurrent with enrollment in the appropriate course.						
47587	discussion-recitation	W	03:00 PM - 04:50 PM	W	room 111 Noyes Laboratory	Adams, G
47587: 1 hoursDepartmental Approval RequiredStudents in Merit Workshop sections must register in 1 hour CHEM 199 credit concurrent with enrollment in the appropriate course.						

202 **Accelerated Chemistry I** credit: 3 hours.

Lectures and discussions. Beginning chemistry course for students in the chemical sciences and others with strong high school chemistry and mathematics preparation. Chemical calculations, structure, bonding and equilibrium. Students may not receive credit for both CHEM 102 and CHEM 202. Prerequisite: Admission by U of I placement test or consent of adviser; credit or concurrent registration in MATH 220 or MATH 221; concurrent registration in CHEM 203.

This course satisfies the General Education Criteria for a Physical Sciences course.

Students must register for one lecture and one quiz section beginning with the same letter. Engineering students must obtain a dean's approval to drop this course after the second week of instruction.

CRN	Type	Section	Time	Days	Location	Instructor
36229	lecture	AL1	10:00 AM - 10:50 AM	TR	room 100 Noyes Laboratory	Gruebele, M
36229: Physical Sciences course. Students may not receive credit for both CHEM 102 and CHEM 202.						
36236	quiz	AQ1	09:00 AM - 09:50 AM	WF	room 152 Chemistry Annex	Gruebele, M; Sundaradevan, P
36236: Physical Sciences course.						
36238	quiz	AQ2	10:00 AM - 10:50 AM	WF	room 152 Chemistry Annex	Gruebele, M; Schlosberg, C
36238: Physical Sciences course.						

36239	quiz	AQ3	12:00 PM - 12:50 PM	WF	room 152 Chemistry Annex	Gruebele, M; Sundaradevan, P
36239: Physical Sciences course.						
36244	quiz	AQ4	02:00 PM - 02:50 PM	WF	room 8 Chemistry Annex	Gruebele, M; Ashtekar, S
36244: Physical Sciences course.						
36248	quiz	AQ6	12:00 PM - 12:50 PM	WF	room 8 Chemistry Annex	Gruebele, M; Schlosberg, C
36248: Physical Sciences course.						
36252	quiz	AQ8	11:00 AM - 11:50 AM	WF	room 152 Chemistry Annex	Gruebele, M; Schlosberg, C
36252: James Scholars, and Physical Sciences course. Students will be expected to complete an additional honors assignment (HCLA required).						
36254	quiz	AQ9	01:00 PM - 01:50 PM	WF	room 8 Chemistry Annex	Gruebele, M; Ashtekar, S
36254: James Scholars, and Physical Sciences course. Students will be expected to complete an additional honors assignment (HCLA required).						
36256	quiz	AQA	11:00 AM - 12:50 PM	WF	room 209 Noyes Laboratory	Gruebele, M; Mui, T
36256: Physical Sciences course. Departmental Approval Required Restricted to Merit Workshop only. Call 244-8279 for information. Concurrent enrollment for 1 hour credit in the Merit Section of CHEM 199 is required (See CHEM 199).						
36258	quiz	AQC	11:00 AM - 11:50 AM	WF	room 8 Chemistry Annex	Gruebele, M; Chang, T
36258: Physical Sciences course.						
36259	quiz	AQD	02:00 PM - 02:50 PM	WF	room 152 Chemistry Annex	Gruebele, M; Sundaradevan, P
36259: Physical Sciences course.						
44024	quiz	AQF	09:00 AM - 10:50 AM	WF	room 209 Noyes Laboratory	Gruebele, M; Goodpaster, J
44024: Physical Sciences course. Departmental Approval Required Restricted to Merit Workshop only. Call 244-8279 for information. Concurrent enrollment for 1 hour credit in the Merit Section of CHEM 199 is required (See CHEM 199).						

203 **Accelerated Chemistry Lab I** credit: 2 hours.

Companion laboratory course to CHEM 202. Comprehensive skills-oriented approach to learning laboratory technique and safety. Students may receive no more than two credit hours for both this course and CHEM 103. Prerequisite: Concurrent registration or credit in CHEM 202 or consent of instructor.

Students must register for one lab and one lecture section beginning with the same letter. Engineering students must obtain a dean's approval to drop this course after the second week of instruction.

CRN	Type	Section	Time	Days	Location	Instructor
36267	laboratory	AB1	08:00 AM - 11:50 AM	M	room 310 Chemistry Annex	Lu, Y; Jablenski, K
36267: James Scholars course.						
36277	laboratory	AB2	01:00 PM - 04:50 PM	T	room 310 Chemistry Annex	Lu, Y; McGuire, B
36280	laboratory	AB3	01:00 PM - 04:50 PM	T	room 310 Chemistry Annex	Lu, Y; Barry, K
36290	laboratory	AB4	08:00 AM - 11:50 AM	M	room 310 Chemistry Annex	Lu, Y; Honesty, N
38843	laboratory	AB5	01:00 PM - 04:50 PM	M	room 310 Chemistry Annex	Lu, Y; Bulman, M
36299	laboratory	AB6	01:00 PM - 04:50 PM	M	room 310 Chemistry Annex	Lu, Y; Bigi, M
36265	lecture	AL1	12:00 PM - 12:50 PM	W	room 100 Noyes Laboratory	Lu, Y
36284	laboratory	BB1	01:00 PM - 04:50 PM	W	room 310 Chemistry Annex	Lu, Y; Strole, G
36293	laboratory	BB3	01:00 PM - 04:50 PM	R	room 310 Chemistry Annex	Lu, Y; Shankar, S
36293: James Scholars course.						
36294	laboratory	BB4	01:00 PM - 04:50 PM	R	room 310 Chemistry Annex	Lu, Y; Barry, K
36294: James Scholars course.						
36301	laboratory	BB5	08:00 AM - 11:50 AM	F	room 310 Chemistry Annex	Lu, Y; Stuart, S
42859	laboratory	BB6	08:00 AM - 11:50 AM	F	room 310 Chemistry Annex	Lu, Y; Zachariah, S
47511	laboratory	BB7	01:00 PM - 04:50 PM	F	room 310 Chemistry Annex	Lu, Y; Bigi, M
48515	laboratory	BB8	01:00 PM - 04:50 PM	F	room 310 Chemistry Annex	Lu, Y; McGuire, B
38842	lecture	BL1	12:00 PM - 12:50 PM	M	room 100 Noyes Laboratory	Lu, Y

222 **Quantitative Analysis Lecture** credit: 2 hours.

Fundamentals of quantitative analysis, chemical equilibrium and kinetics. This lecture course is intended to accompany CHEM 223. Students with credit in CHEM 222 can receive credit for CHEM 203 but not for CHEM 121. Prerequisite: CHEM 104 and CHEM 105 or equivalent.

CRN	Type	Section	Time	Days	Location	Instructor
29906	lecture	A	11:00 AM - 11:50 AM	MW	room 100 Noyes Laboratory	Wieckowski, A; Long, B

223 **Quantitative Analysis Lab** credit: 1 hours.

Laboratory course covers the fundamentals of quantitative analysis, equilibrium and kinetics. Students with credit in CHEM 223 cannot receive credit for CHEM 203 or CHEM 121. Prerequisite: Credit or concurrent registration in CHEM 222.

Register for one Quiz and Laboratory combination.

CRN	Type	Section	Time	Days	Location	Instructor
31599	laboratory	AB1	01:00 PM - 04:50 PM	T	room 301 Chemistry Annex	Scheeline, A; Dailey, C; Geiger, M
31602	laboratory	AB2	01:00 PM - 04:50 PM	W	room 301 Chemistry Annex	Scheeline, A; Geiger, M; Ota, N
31605	laboratory	AB3	01:00 PM - 04:50 PM	R	room 301 Chemistry Annex	Scheeline, A; Dailey, C; Ota, N
31611	quiz	AQ1	11:00 AM - 11:50 AM	F	room 100 Noyes Laboratory	Scheeline, A

232 **Elementary Organic Chemistry I** credit: 3 hours.

Presents elementary structural and synthetic chemistry with emphasis on applications of this material to closely related areas. For students in agricultural, nutritional and biological sciences, as well as premedical, pre dental, and preveterinary programs. One-term survey course; may be followed by CHEM 332. Students may not receive credit for both CHEM 232 and CHEM 236. Prerequisite: CHEM 104 and CHEM 105, or CHEM 204.

CRN	Type	Section	Time	Days	Location	Instructor
31612	lecture	A	08:00 AM - 08:50 AM	MWF	room 100 Noyes Laboratory	Moore, J
31613	lecture	B	09:00 AM - 09:50 AM	MWF	room 100 Noyes Laboratory	Miller, L
50302	online	C	ARRANGED			Moore, J
50302: Video-taped lectures, course materials and on-line discussion board will be made available through WebCT. Students enrolled in this section are expected to take the exams, complete all written assignments, and take the pre-lecture quizzes as outlined in the syllabus. Also						

233 **Elementary Organic Chem Lab I** credit: 2 hours.

Basic laboratory techniques in organic chemistry are presented with emphasis on experiments of interest to closely related areas. For students in agricultural science, dairy technology, food technology, nutrition, dietetics, premedical, pre dental, and preveterinary programs. Students may not receive credit for both CHEM 233 and CHEM 237. Prerequisite: Credit or concurrent registration in CHEM 232.

Students must register for one lab and one lecture section.

CRN	Type	Section	Time	Days	Location	Instructor
36318	laboratory	AB1	01:00 PM - 04:50 PM	M	room 257 Noyes Laboratory	Miller, L; Taylor, C; Perahia, T; Ballmer, S
36320	laboratory	AB2	08:00 AM - 11:50 AM	T	room 257 Noyes Laboratory	Miller, L; Anderson, C; Rice, G; Baek, J
36323	laboratory	AB3	01:00 PM - 04:50 PM	T	room 257 Noyes Laboratory	Miller, L; Tan, Y; Ballmer, S
36325	laboratory	AB4	08:00 AM - 11:50 AM	W	room 257 Noyes Laboratory	Miller, L; Man, S; Hayes, T
36326	laboratory	AB5	01:00 PM - 04:50 PM	W	room 257 Noyes Laboratory	Miller, L; Baek, J; Taylor, C
36322	laboratory	AB6	08:00 AM - 11:50 AM	R	room 257 Noyes Laboratory	Miller, L; Man, S; Rice, G; Hayes, T
36328	laboratory	AB7	01:00 PM - 04:50 PM	R	room 257 Noyes Laboratory	Miller, L; Perahia, T; Tan, Y
PEND	laboratory	AB8	01:00 PM - 04:50 PM	F	room 257 Noyes Laboratory	
36313	lecture	AL1	09:00 AM - 09:50 AM	R	room 100 Gregory Hall	Miller, L
36315	lecture	AL2	03:00 PM - 03:50 PM	R	room 100 Noyes Laboratory	Miller, L
36317	lecture	AL3	01:00 PM - 01:50 PM	F	room 217 Noyes Laboratory	Miller, L

236 **Fundamental Organic Chem I** credit: 4 hours.

Fundamental structural, synthetic, and mechanistic organic chemistry is presented. For students whose major is chemistry or for those in the specialized curricula in chemistry or chemical engineering. The first term of a two-term integrated sequence (to be followed by CHEM 436). This lecture course is intended to accompany CHEM 237. Students may not receive credit for both CHEM 236 and CHEM 232. Prerequisite: CHEM 204, CHEM 121 or CHEM 222 through CHEM 223.

Students must register for one discussion and one lecture section.

CRN	Type	Section	Time	Days	Location	Instructor
36335	discussion-recitation	AD1	01:00 PM - 02:50 PM	T	room 111 Noyes Laboratory	Adams, G; Holaday, C
36335: Departmental Approval Required Restricted to Merit Workshops only. Call 244-8279 for information. Concurrent enrollment for 1 hour credit in the Merit Section of CHEM 199 is required (See CHEM 199).						
36336	discussion-recitation	AD2	10:00 AM - 10:50 AM	T	room 304 Noyes Laboratory	Baranger, A; Deluca, R

36359	discussion-recitation	AD3	12:00 PM - 12:50 PM	T	room 164 Noyes Laboratory	Baranger, A; LANGENFELD, A
36364	discussion-recitation	AD4	12:00 PM - 12:50 PM	W	room 136 Burrill Hall	Baranger, A; Deluca, R
36367	discussion-recitation	AD5	12:00 PM - 12:50 PM	W	room 313 Davenport Hall	Baranger, A; Hesse, A
36371	discussion-recitation	AD6	10:00 AM - 10:50 AM	R	room 303 Noyes Laboratory	Baranger, A; Hesse, A
36332	lecture	AL1	09:00 AM - 09:50 AM	MWF	room 116 Roger Adams Laboratory	Baranger, A

**237 Structure and Synthesis** credit: 2 hours.

Laboratory course introduces synthesis and the basic techniques for the separation, isolation and purification of organic and inorganic compounds. Students may not receive credit for both CHEM 237 and CHEM 233.

Prerequisite: Credit or concurrent registration in CHEM 236.

Students must register for one lab and one lecture section.

CRN	Type	Section	Time	Days	Location	Instructor
36436	laboratory	AB1	08:00 AM - 11:50 AM	T	room 263 Noyes Laboratory	Wilson, R
36439	laboratory	AB2	01:00 PM - 04:50 PM	T	room 263 Noyes Laboratory	Wilson, R; Wilcock, B; Wolf, L
36442	laboratory	AB3	01:00 PM - 04:50 PM	W	room 263 Noyes Laboratory	Wilson, R; Woerly, E; Uno, B
36444	laboratory	AB4	08:00 AM - 11:50 AM	R	room 263 Noyes Laboratory	Wilson, R; Wilcock, B; Wolf, L
36446	laboratory	AB5	01:00 PM - 04:50 PM	R	room 263 Noyes Laboratory	Wilson, R; Woerly, E; Taylor, C
36374	lecture	AL1	09:00 AM - 09:50 AM	T	room 213 Gregory Hall	Wilson, R
36434	lecture	AL2	02:00 PM - 02:50 PM	T	room 163 Noyes Laboratory	Wilson, R

**291 Cooperative Education Planning** credit: 0 hours.

On-campus planning and discussion of cooperative work-study education programs in industry and government. Each chemistry or chemical engineering student participating in the cooperative education program must register for CHEM 291/CHBE 201 or CHBE 202 each term (CHBE 201 if on-campus, CHBE 202 if off-campus). Same as CHBE 201. Approved for S/U grading only. Prerequisite: Acceptance into the School of Chemical Sciences Cooperative Education Program.

CRN	Type	Section	Time	Days	Location	Instructor
36304	discussion-recitation	1	ARRANGED			Williams, D; Mirarefi, A

293 **Cooperative Education Practice** credit: 0 hours.

Off-campus cooperative practice of chemistry or chemical engineering in industrial or governmental facilities. Each chemistry or chemical engineering student participating in cooperative education must register for CHEM 293 for each off-campus term. Same as CHBE 202. Approved for S/U grading only. Prerequisite: Acceptance into the School of Chemical Sciences Cooperative Education Program.

CRN	Type	Section	Time	Days	Location	Instructor
36309	practice	1	ARRANGED			Williams, D

295 **Chemistry Internship** credit: 0 hours.

Full-time practice of chemical science in an off-campus industrial setting or research laboratory environment. Summary report required. May be repeated. Approved for S/U grading only. Prerequisite: Completion of freshman year or equivalent, or consent of Director of Cooperative Education in Chemistry.

CRN	Type	Section	Time	Days	Location	Instructor
29912	practice	A	ARRANGED			Williams, D
29912: Departmental Approval Required						
29912: Restricted to Chemistry majors only. Departmental approval required. Please see Debe Williams in 105 Noyes.						

312 **Inorganic Chemistry** credit: 3 hours.

Basic chemical bonding in molecules, introduction to symmetry, chemistry of the main group elements, coordination chemistry of the transition elements, organometallic chemistry, solid state chemistry, bioinorganic chemistry, chemistry of the lanthanide and actinide elements. Prerequisite: CHEM 232 or CHEM 236.

CRN	Type	Section	Time	Days	Location	Instructor
29907	lecture	A	09:00 AM - 09:50 AM	MWF	room 217 Noyes Laboratory	Rauchfuss, T

315 **Instrumental Chem Systems Lab** credit: 2 hours.

Laboratory course emphasizes the application of modern instrumental techniques for characterizing the kinetic behavior and equilibrium properties of chemical systems. Prerequisite: Either CHEM 237 or both CHEM 223 and CHEM 233. Class Section Information: Students must register for one lab and one quiz section.

CRN	Type	Section	Time	Days	Location	Instructor
31616	laboratory	AB2	01:00 PM - 04:50 PM	T	room 157 Noyes Laboratory	Nuzzo, R; Ihms, H; Shen, L
31617	laboratory	AB3	01:00 PM - 04:50 PM	W	room 157 Noyes Laboratory	Nuzzo, R; Xu, H; Qavi, A
31618	laboratory	AB4	01:00 PM - 04:50 PM	R	room 157 Noyes Laboratory	Nuzzo, R; King, C
31619	laboratory	AB5	01:00 PM - 04:50 PM	F	room 157 Noyes Laboratory	Nuzzo, R; Daly, S
31620	quiz	AQ1	04:00 PM - 04:50 PM	M	room 161 Noyes Laboratory	Nuzzo, R

**332 *Elementary Organic Chem II*** credit: 3 hours.

Second course; lectures covering topics in organic chemistry with special applications to the life sciences. This course should not be taken by students who have completed CHEM 236. Students may not receive credit for both CHEM 332 and CHEM 436. Prerequisite: CHEM 232 and CHEM 233.

CRN	Type	Section	Time	Days	Location	Instructor
29909	lecture	W	08:00 AM - 08:50 AM	MWF	room 228 Natural History Bldg	Coates, R

**360 *Chemistry of the Environment*** credit: 3 hours.

Study of the chemistry of the atmosphere, the chemistry of soil and minerals in the Earth's crust, chemistry of natural waters, agricultural chemicals and organic pollutants, and topics related to energy use. Prerequisite: One year of general chemistry (CHEM 102-105 or CHEM 202-205) and one semester of organic chemistry (CHEM 231 or CHEM 236). The organic chemistry class may be taken concurrently with CHEM 360.

CRN	Type	Section	Time	Days	Location	Instructor
47862	lecture	A	09:00 AM - 09:50 AM	MWF	room 269 Everitt Elec and Comp Engr Lab	Shapley, P

**420 *Instrumental Characterization*** credit: 2 hours.

Lecture course covers the fundamentals of instrumental characterization including: nuclear magnetic resonance spectroscopy, potentiometry, voltammetry, atomic and molecular spectroscopy, mass spectrometry, activation analysis, electron and x-ray spectroscopy, and gas and liquid chromatography. Prerequisite: CHEM 440; or credit or concurrent registration in CHEM 442; or consent of the instructor.

CRN	Type	Section	Time	Days	Location	Instructor
29908	lecture	A	12:00 PM - 12:50	WF	room 217 Noyes	Scheeline, A;

			PM		Laboratory	Kelleher, N
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436 **Fundamental Organic Chem II** credit: 3 hours.

Course is the second term of a two-term integrated sequence and should be taken the term following enrollment in CHEM 236. Students may not receive credit for both CHEM 436 and CHEM 332. Prerequisite: CHEM 236 and CHEM 237; students who have completed CHEM 232 and CHEM 233 may be enrolled with consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
29914	lecture	A	11:00 AM - 11:50 AM	MWF	room 304 Noyes Laboratory	Beak, P

437 **Organic Chemistry Lab** credit: 3 hours.

Laboratory experiments in organic chemistry with emphasis on synthesis. Prerequisite: CHEM 233 or CHEM 237 and credit or concurrent registration in CHEM 332 or CHEM 436.

CRN	Type	Section	Time	Days	Location	Instructor
31621	laboratory	AB1	01:00 PM - 04:50 PM	R	room 219 Noyes Laboratory	Beak, P; Reed, S; Robbins, D
	laboratory	AB1	02:00 PM - 05:50 PM	T	room 219 Noyes Laboratory	Beak, P; Reed, S; Robbins, D
31623	lecture	AL1	01:00 PM - 01:50 PM	T	room 162 Noyes Laboratory	Beak, P

440 **Physical Chemistry Principles** credit: 4 hours.

One-term course in physical chemistry emphasizing topics most important to students in the biological and agricultural sciences. Not open to students in the specialized curricula in chemistry and chemical engineering. Laboratory experience in this area provided by CHEM 315 to be taken preferably after CHEM 440. Same as BIOC 440. Prerequisite: CHEM 222 and CHEM 232, or equivalent; PHYS 102; and MATH 241 (formerly MATH 243) or equivalent calculus including partial derivatives.

CRN	Type	Section	Time	Days	Location	Instructor
31624	lecture	A	11:30 AM - 12:50 PM	TR	room 162 Noyes Laboratory	Oldfield, E
31624: Topic: Balanced Survey						
31626	lecture	B	10:00 AM - 11:50 AM	TR	room 124 Burrill Hall	Nair, S; Crofts, A
31626: Topic: Biological Perspective						

**442 Physical Chemistry I** credit: 4 hours.

Lectures and problems focusing on microscopic properties. CHEM 442 and CHEM 444 constitute a year-long study of chemical principles covering topics such as quantum chemistry, atomic and molecular structure and spectra, statistical thermodynamics, properties and thermodynamics of materials in gases, solids, and liquids, and chemical kinetics and equilibria. Credit is not given for both CHEM 442 and PHYS 427. Prerequisite: CHEM 204, CHEM 121, or CHEM 222; MATH 225 or MATH 415, and a minimal knowledge of differential equations, or equivalent; and PHYS 211, PHYS 212, and PHYS 214 or equivalent.

CRN	Type	Section	Time	Days	Location	Instructor
31627	lecture	A	09:00 AM - 09:50 AM	MWF	room 165 Noyes Laboratory	Thompson, A
31628	lecture	B	10:00 AM - 10:50 AM	MWF	room 165 Noyes Laboratory	Lisy, J

**444 Physical Chemistry II** credit: 4 hours.

Continuation of CHEM 442, focusing on bulk properties. Credit is not given for both CHEM 444 and PHYS 427. Prerequisite: CHEM 442.

CRN	Type	Section	Time	Days	Location	Instructor
29917	lecture	A	10:00 AM - 10:50 AM	MWF	room 1302 Siebel Center for Comp Sci	Rienstra, C

**445 Physical Principles Lab I** credit: 2 hours.

Laboratory course features experiments concerning the fundamental physical nature of chemical phenomena. Typical experiments include magnetic resonance and thermochemistry. Prerequisite: CHEM 315, and credit or concurrent registration in CHEM 444; or consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
31629	laboratory	AB1	01:00 PM - 04:50 PM	R	room 459 Noyes Laboratory	McDonald, J; Rodriguez, O
31629: Class will be held in 459 Noyes. Course meets at 1st available period in the lab (459 Noyes).						
31630	laboratory	AB2	01:00 PM - 04:50 PM	T	room 459 Noyes Laboratory	McDonald, J; Rodriguez, O
31630: Class will be held in 459 Noyes. Course meets at 1st available period in the lab (459 Noyes).						
31631	laboratory	AB3	06:00 PM - 09:50 PM	T	room 459 Noyes Laboratory	McDonald, J; Rodriguez, O
31631: Class will be held in 459 Noyes. Course meets at 1st available period in the lab (459 Noyes).						
31632	quiz	AQ1	ARRANGED		room 459 Noyes Laboratory	McDonald, J

31632: Class will be held in 459 Noyes.

447 **Physical Principles Lab II** credit: 2 hours.

Laboratory course features advanced experiments concerning the fundamental physical nature of chemical phenomena. This course is a continuation of CHEM 445. Typical experiments include dielectric constants of liquids and low-energy electron diffraction from surfaces. Prerequisite: CHEM 445 or consent of instructor.

Register for the quiz and one laboratory section.

CRN	Type	Section	Time	Days	Location	Instructor
31633	laboratory	AB1	01:00 PM - 04:50 PM	T	room 459 Noyes Laboratory	McDonald, J; Leiding, J
31633: Class will be held in 459 Noyes. Course meets at 1st available period in the lab (459 Noyes).						
33121	laboratory	AB2	01:00 PM - 04:50 PM	R	room 459 Noyes Laboratory	McDonald, J; Leiding, J
33121: Class will be held in 459 Noyes. Course meets at 1st available period in the lab (459 Noyes).						
31634	laboratory	AB3	06:00 PM - 09:50 PM	T	room 459 Noyes Laboratory	McDonald, J; Leiding, J
31634: Class will be held in 459 Noyes. Course meets at 1st available period in the lab (459 Noyes).						
31575	quiz	AQ1	ARRANGED			McDonald, J
31575: Class will be held in 459 Noyes.						

484 **Thermodynamics of Materials** credit: 4 hours.

Same as MSE 401. See MSE 401.

CRN	Type	Section	Time	Days	Location	Instructor
38344	lecture	A	09:00 AM - 09:50 AM	MWF	room 218 Ceramics Bldg	Luijten, E
	lecture	A	02:00 PM - 02:50 PM	M	room 218 Ceramics Bldg	Luijten, E

488 **Surfaces and Colloids** credit: 3 or 4 hours.

Same as MSE 480. See MSE 480.

CRN	Type	Section	Time	Days	Location	Instructor
47808	lecture	A	02:30 PM - 03:50 PM	TR	room 153 Mechanical Engineering Bldg	Granick, S

47808: 3 hours This section is for Graduate Students only, you may choose either 3 or 4 hours.						
47810	lecture	B	02:30 PM - 03:50 PM	TR	room 153 Mechanical Engineering Bldg	
47810: This section is for Undergraduates only.						

492 **Special Topics in Chemistry** credit: 1 to 3 hours.

Open to advanced undergraduates and graduate students. Deals with subjects not ordinarily covered by regularly scheduled courses. Prerequisite: Credit or concurrent registration in any 400-level course in chemistry.

CRN	Type	Section	Time	Days	Location	Instructor
50386	lecture-discussion	CT	08:00 AM - 06:50 PM	MTWRF		Jakobsson, E; Dunning, T
50386: Academic Outreach Aprvl Reqd						
50386: 1 hours Chemistry and Comp Sci Educ Academic Outreach restrictions and assessments apply; see <a href="http://www.outreach.uiuc.edu">http://www.outreach.uiuc.edu</a> .						

494 **Lab Safety Fundamentals** credit: 1 hours.

Same as MSE 492. See MSE 492.

CRN	Type	Section	Time	Days	Location	Instructor
38335	lecture	A	07:00 PM - 08:50 PM	MW	room 228 Natural History Bldg	Shang, J
38335: This course is restricted to juniors, seniors and graduate students who are working in laboratories. This class meets only five times each semester, on the first Monday and Wednesday evenings of the semester. The first class meets on August 29, 2007.						

495 **Teaching Secondary Chemistry** credit: 4 hours.

Intended for undergraduates working toward certification to teach high school chemistry and graduate students working towards a Master's degree in the Teaching of Chemistry. Course aims to provide future teachers with hands-on experience in conduction laboratory experiments, demonstrations, and teaching strategies. Course does not count toward the eleven advanced hours in chemistry required in the specialized curriculum, nor does it apply to coursework required for the Ph.D. in Chemistry. Prerequisite: Undergraduate background in general chemistry and credit or concurrent enrollment in CI 403.

CRN	Type	Section	Time	Days	Location	Instructor
40172	laboratory	AB1	01:00 PM - 02:50 PM	F	room 201 Chemistry Annex	Decoste, D
40172: Instructor Approval Required						

40173	discussion-recitation	AD1	01:00 PM - 02:50 PM	W	room 164 Noyes Laboratory	Decoste, D
40173: Instructor Approval Required						

499 **Senior Thesis** credit: 2 to 6 hours.

Research with thesis, under the direction of a senior staff member in chemistry. Normally the student takes two terms of CHEM 499 in the senior year. CHEM 499 is recommended for all those who plan to do research and graduate study, and it or BIOC 492 is a prerequisite for graduation with distinction in chemistry. In the term preceding their initial enrollment, those interested in taking the course should consult with their advisers and with the graduate adviser for the area of interest in which they plan to work. A maximum of 10 hours may be counted toward graduation and a thesis must be presented for credit to be received. No graduate credit.

CRN	Type	Section	Time	Days	Location	Instructor
10508	independent study		ARRANGED			
10508: Departmental Approval Required						

512 **Advanced Inorganic Chemistry** credit: 4 hours.

Descriptive chemistry of the main group and transition elements, reactions and reaction mechanisms of inorganic systems, and electronic structure of inorganic molecules and solids. Prerequisite: CHEM 312 or approval of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
29928	lecture	A	08:30 AM - 09:50 AM	TR	room 218 Mechanical Engineering Bldg	Boulatov, R

515 **Inorganic Chemistry Seminar** credit: 1 hours.

Required of all graduate students whose major is inorganic chemistry.

CRN	Type	Section	Time	Days	Location	Instructor
29931	lecture-discussion	A	04:00 PM - 05:50 PM	T	room 112 Chemistry Annex	Girolami, G

520 **Advanced Analytical Chemistry** credit: 3 hours.

Treatment of the basic issues of importance in modern analytical chemistry. Topics include basic chemical and measurement concepts, measurement instrumentation and techniques, and principles, tools, and applications in spectroscopy, electrochemistry, separations, sensors, mass spectroscopy and surface characterization. Prerequisite: CHEM 315, CHEM 420, and CHEM 444.

CRN	Type	Section	Time	Days	Location	Instructor
29935	lecture	A	10:30 AM - 11:50 AM	TR	room 171 Roger Adams Laboratory	Bailey, R

521 **Advanced Analytical Chem Lab** credit: 1 hours.

Graduate-level laboratory course in chemical analysis meant to be taken concurrently with CHEM 520. Experiments in atomic and molecular spectroscopy, electrochemistry, and molecular separations cover areas relevant to modern chemical analysis with similar emphasis on sample manipulation, instrumentation and data analysis. Prerequisite: CHEM 315, CHEM 420, CHEM 442, and CHEM 444, or preparation in chemistry and physics equivalent to a major in the natural sciences or engineering at the bachelor's degree level.

CRN	Type	Section	Time	Days	Location	Instructor
31576	laboratory	A	06:00 PM - 09:50 PM	T	room 303 Chemistry Annex	Bailey, R

525 **Analytical Chemistry Seminar** credit: 1 hours.

Required of all graduate students whose major is analytical chemistry.

CRN	Type	Section	Time	Days	Location	Instructor
29939	lecture-discussion	A	04:00 PM - 05:50 PM	F	room 116 Roger Adams Laboratory	Scheeline, A

532 **Physical Organic Chemistry** credit: 4 hours.

Advanced survey of organic chemistry with emphasis on reaction mechanisms and concepts of physical organic chemistry. Prerequisite: CHEM 332 or CHEM 436 and one year of physical chemistry.

CRN	Type	Section	Time	Days	Location	Instructor
29946	lecture	A	11:00 AM - 11:50 AM	MWF	room 163 Noyes Laboratory	Silverman, S

534 **Advanced Organic Synthesis** credit: 4 hours.

Advanced survey of organic chemistry with emphasis on synthesis. Prerequisite: CHEM 332 or CHEM 436.

CRN	Type	Section	Time	Days	Location	Instructor
42841	lecture	A	08:30 AM - 09:50 AM	TR	room 165 Noyes Laboratory	Burke, M

	lecture	A	05:00 PM - 06:20 PM	W	room 165 Noyes Laboratory	Burke, M
: For graduate students						

535 **Organic Chemistry Seminar** credit: 2 hours.  
Current literature in organic chemistry. Prerequisite: Consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
29949	lecture-discussion	A	04:00 PM - 04:50 PM	MR	room 116 Roger Adams Laboratory	Van Der Donk, W
	lecture-discussion	A	07:30 PM - 09:50 PM	W	room 116 Roger Adams Laboratory	Van Der Donk, W
: Current literature in organic chemistry. Prerequisite: Graduate student standing and consent of instructor.						

538 **Topics in Organic Chemistry** credit: 2 to 4 hours.  
Advanced course dealing with a subject not ordinarily covered by regularly scheduled courses, such as natural product synthesis and biosynthesis, organic photochemistry, chemistry of special families of organic compounds, etc. May be repeated. Prerequisite: CHEM 532 and CHEM 534, one of which may be taken concurrently.

CRN	Type	Section	Time	Days	Location	Instructor
49328	lecture	A	10:00 AM - 10:50 AM	MWF	room 163 Noyes Laboratory	Hartwig, J
49328: 2 hours MECHANISMS OF ORGANOMETALLIC REACTIONS This is taught the first half of the semester. A survey of the structure, bonding, reactivity, and reaction mechanisms of organometallic complexes of the transition elements. The course will begin with fundamental principles and conclude with catalytic applications of organometallic chemistry. Meets 22-Aug-07 - 12-Oct-07.						
49329	lecture	B	10:00 AM - 10:50 AM	MWF	room 163 Noyes Laboratory	White, M
49329: 2 hours ORGANOMETALLIC SYNTHESIS This is taught the second half of the semester. Meets 15-Oct-07 - 07-Dec-07.						

540 **Quantum Mechanics** credit: 4 hours.  
The sequence, CHEM 540 and CHEM 542, is designed to give seniors and graduate students a unified treatment of physical chemistry on an advanced level; topics include the electronic structure and spectra of atoms, principles of wave mechanics, experimental and theoretical aspects of the chemical bond in diatomic and polyatomic molecules, statistical thermodynamics, and chemical kinetics. Prerequisite: CHEM 444 or equivalent.

CRN	Type	Section	Time	Days	Location	Instructor
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29918	lecture	A	09:00 AM - 10:20 AM	TR	room 164 Noyes Laboratory	Makri, N
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544 **Statistical Thermodynamics** credit: 4 hours.

Fundamentals of classical thermodynamics with emphasis on equilibrium and stability criteria; an introduction to equilibrium statistical mechanics with discussion of several ensembles and applications to ideal systems of interest to chemists; and introduction to nonequilibrium thermodynamics. Prerequisite: CHEM 442 and CHEM 444, or equivalent.

CRN	Type	Section	Time	Days	Location	Instructor
29953	lecture	A	10:00 AM - 11:20 AM	MWF	room 162 Noyes Laboratory	Luthey-Schulten, Z

545 **Physical Chemistry Seminar** credit: 1 or 2 hours.

Required of all graduate students whose major is physical chemistry. Approved for both letter and S/U grading. Prerequisite: Consent of instructor.

To be taken by physical chemistry graduate students during any semester. A seminar will be presented to fulfill a Ph.D. requirement.

CRN	Type	Section	Time	Days	Location	Instructor
29955	lecture-discussion	A	04:00 PM - 05:20 PM	W	room 112 Chemistry Annex	Dlott, D

575 **Chemical Biology Seminar** credit: 1 hours.

Required of all graduate students whose major is Chemical Biology. Prerequisite: Consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
29957	lecture-discussion	A	12:00 PM - 01:50 PM	R	room 217 Noyes Laboratory	Katzenellenbogen, J

29957: Current literature in chemical biology. Prerequisite: Graduate student standing and consent of instructor.

584 **Introduction to Materials Chem** credit: 4 hours.

Processing of ceramics, metals, polymers, and semiconductors, both traditional and advanced, and their mechanical, electrical, magnetic, optical and thermal properties.

CRN	Type	Section	Time	Days	Location	Instructor
46582	lecture	A	02:00 PM - 02:50 PM	MWF	room 163 Noyes Laboratory	Suslick, K

585 **Materials Chemistry Seminar** credit: 1 hours.

Required of all Chemistry graduate students whose major area is Materials Chemistry.

CRN	Type	Section	Time	Days	Location	Instructor
43843	lecture-discussion	A	04:00 PM - 05:50 PM	R	room 112 Chemistry Annex	Girolami, G

590 **Special Topics in Chemistry** credit: 1 to 4 hours.

Designed for students majoring or minoring in chemistry who wish to undertake individual studies of a non-research nature under the direction of a faculty member of the department. Approved for both letter and S/U grading.

Prerequisite: Consent of instructor and written approval of department head. Staff for the course is the same as for CHEM 599.

CRN	Type	Section	Time	Days	Location	Instructor
10512	independent study		ARRANGED			
10512: Departmental Approval Required						
31581	lecture-discussion	C	02:00 PM - 03:20 PM	MW	room 1302 Siebel Center for Comp Sci	Hergenrother, P
31581: 4 hours Chem 590C: Introduction to Chemical Biology Lecture. An overview of the methods utilized in research at the interface of chemistry and biology, and their application to contemporary biological problems. Prerequisite: One year of undergraduate organic chemistry, and graduate student standing. Undergraduates may register with consent of instructor.						

599 **Thesis Research** credit: 0 to 16 hours.

Candidates for the master's degree who elect research are required to present a thesis. A thesis is always required of students working toward the degree of Doctor of Philosophy. Not all candidates for thesis work necessarily are accepted. Any student whose major is in a department other than chemistry or chemical engineering must receive permission from the head of the Department of Chemistry to register in this course. Approved for S/U grading only.

During Summer terms, this course can only be taken for 0 to 8 hours.

CRN	Type	Section	Time	Days	Location	Instructor
10514	independent study		ARRANGED			
10514: Departmental Approval Required						