CHEMISTRY

Chemistry

CHEM 100 CHEMISTRY FOR THE CONSUMER (GL) ... A critical examination of those chemical products which have a significant impact upon the daily life of the consumer. Attention will be focused from the consumer viewpoint upon food additives, prescription and non-prescription drugs, fuels, pesticides, detergents, synthetic fibers and plastics. Meets General Studies laboratory science requirements.

COREQ: MATH 141 OR MATH 140 OR WAIVER

#2082 Section 01 [units: 4] Gen Ed Laboratory (GL)

01/19-05/17	*T*	*08:00 AM - 09:40 AM*	*UH0244*	*Hephzibah J Kumpaty*
01/19-05/17	*T*	*08:00 AM - 09:40 AM*	*UH0244*	*Paul G House*
01/19-05/17	*TR*	*02:00 PM - 03:15 PM*	*UH0145*	*Jessica L Bonjour*

#2063 Section 02 [units: 4] Gen Ed Laboratory (GL)

01/19-05/17	*M*	*11:00 AM - 12:40 PM*	*UH0244*	*John W Ejnik*
01/19-05/17	*TR*	*02:00 PM - 03:15 PM*	*UH0145*	*Jessica L Bonjour*

#2064 Section 03 [units: 4] Gen Ed Laboratory (GL)

01/19-05/17	*T*	*11:00 AM - 12:40 PM*	*UH0244*	*Steven W Anderson*
01/19-05/17	*TR*	*02:00 PM - 03:15 PM*	*UH0145*	*Jessica L Bonjour*

#2065 Section 04 [units: 4] Gen Ed Laboratory (GL)

01/19-05/17	*M*	*02:00 PM - 03:40 PM*	*UH0244*	*Hassimi Traore*
01/19-05/17	*M*	*02:00 PM - 03:40 PM*	*UH0244*	*Christopher T Veldkamp*
01/19-05/17	*TR*	*02:00 PM - 03:15 PM*	*UH0145*	*Jessica L Bonjour*

#4273 Section 05 [units: 4] Gen Ed Laboratory (GL)

01/19-05/17	*M*	*05:00 PM - 06:40 PM*	*UH0244*	*Jessica L Bonjour*
01/19-05/17	*TR*	*02:00 PM - 03:15 PM*	*UH0145*	*Jessica L Bonjour*

CHEM 102 INTRODUCTORY CHEMISTRY (GL) ... An introduction to the general concepts of chemistry including matter and energy, atomic and molecular structure, bonding, reactions and stoichiometry, gas laws, changes of state, thermochemistry, acid-base theory, solutions, colloids, kinetics, equilibria and electrochemistry.

PREREQ: MATH 141 WITH A GRADE OF C OR BETTER OR WAIVER.

#2066 Section 01 [units: 5] Gen Ed Laboratory (GL)

01/19-05/17	*M*	*08:00 AM - 10:45 AM*	*UH0242*	*Hassimi Traore*
01/19-05/17	*MTWR*	*12:00 PM - 12:50 PM*	*UH0140*	*Kimberly K Naber*

#2068 Section 02 [units: 5] Gen Ed Laboratory (GL)

01/19-05/17	*T*	*08:00 AM - 10:45 AM*	*UH0242*	*Kimberly K Naber*
01/19-05/17	*MTWR*	*12:00 PM - 12:50 PM*	*UH0140*	*Kimberly K Naber*

#2069 Section 03 [units: 5] Gen Ed Laboratory (GL)

01/19-05/17	*W*	*08:00 AM - 10:45 AM*	*UH0242*	*Steven N Girard*
01/19-05/17	*MTWR*	*11:00 AM - 11:50 AM*	*UH0140*	*Steven N Girard*

#4303 Section 04 [units: 5] Gen Ed Laboratory (GL)

01/19-05/17	*R*	*08:00 AM - 10:45 AM*	*UH0242*	*Hassimi Traore*
01/19-05/17	*MTWR*	*11:00 AM - 11:50 AM*	*UH0140*	*Steven N Girard*

#2070 Section 04X [units: 5] Gen Ed Laboratory (GL)

01/19-05/17	*R*	*08:00 AM - 10:45 AM*	*UH0242*	*Hassimi Traore*
01/19-05/17	*MTWR*	*11:00 AM - 11:50 AM*	*UH0140*	*Steven N Girard*

#2084 Section 05 [units: 5] Gen Ed Laboratory (GL)

01/19-05/17	*F*	*08:00 AM - 10:45 AM*	*UH0242*	*Jessica L Bonjour*
01/19-05/17	*MTWR*	*12:00 PM - 12:50 PM*	*UH0140*	*Kimberly K Naber*

#2088 Section 06 [units: 5] Gen Ed Laboratory (GL)

01/19-05/17	*M*	*02:00 PM - 04:45 PM*	*UH0242*	*Steven N Girard*
01/19-05/17	*MTWR*	*11:00 AM - 11:50 AM*	*UH0140*	*Steven N Girard*

#2092 Section 07 [units: 5] Gen Ed Laboratory (GL)

01/19-05/17	*T*	*02:00 PM - 04:45 PM*	*UH0242*	*Kimberly K Naber*
01/19-05/17	*MTWR*	*12:00 PM - 12:50 PM*	*UH0140*	*Kimberly K Naber*

#2096 Section 08 [units: 5] Gen Ed Laboratory (GL)

01/19-05/17	*W*	*02:00 PM - 04:45 PM*	*UH0242*	*Steven N Girard*
01/19-05/17	*MTWR*	*11:00 AM - 11:50 AM*	*UH0140*	*Steven N Girard*

#2098 Section 09 [units: 5] Gen Ed Laboratory (GL)

01/19-05/17	*R*	*02:00 PM - 04:45 PM*	*UH0242*	*Hephzibah J Kumpaty*
01/19-05/17	*MTWR*	*12:00 PM - 12:50 PM*	*UH0140*	*Kimberly K Naber*

#2101 Section 10 [units: 5] Gen Ed Laboratory (GL) NOTE: This section is for students with Lab Contracts only Dept. Consent

01/19-05/17	*Arranged*	*Arranged*		*Steven N Girard*
01/19-05/17	*MTWR*	*11:00 AM - 11:50 AM*	*UH0140*	*Steven N Girard*

Start/End Dates	Meeting Days	Meeting Times	Location	Instructor	Course Topic (if applicable)	
#2102 Section 11 [units: 5]	Gen Ed Laboratory (GL)	NOTE: This section is for students with Lab Contracts only				Dept. Consent
01/19-05/17	Arranged	Arranged		Kimberly K Naber		
01/19-05/17	MTWR	12:00 PM - 12:50 PM	UH0140	Kimberly K Naber		

CHEM 104 INTRODUCTORY CHEMISTRY (GL) ... A continuation of CHEM 102.

PREREQ: CHEM 102

#2071 Section 01 [units: 5]	Gen Ed Laboratory (GL)				
01/19-05/17	M	08:00 AM - 10:45 AM	UH0244	Christopher T Veldkamp	
01/19-05/17	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore	
#2073 Section 02 [units: 5]	Gen Ed Laboratory (GL)				
01/19-05/17	W	08:00 AM - 10:45 AM	UH0244	Kimberly K Naber	
01/19-05/17	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore	
#4274 Section 03 [units: 5]	Gen Ed Laboratory (GL)				
01/19-05/17	R	08:00 AM - 10:45 AM	UH0244	Baocheng Han	
01/19-05/17	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore	
#2074 Section 03X [units: 5]	Gen Ed Laboratory (GL)				
01/19-05/17	R	08:00 AM - 10:45 AM	UH0244	Baocheng Han	
01/19-05/17	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore	
#2085 Section 04 [units: 5]	Gen Ed Laboratory (GL)				
01/19-05/17	T	02:00 PM - 04:45 PM	UH0244	Hassimi Traore	
01/19-05/17	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore	
#2089 Section 05 [units: 5]	Gen Ed Laboratory (GL)				
01/19-05/17	W	02:00 PM - 04:45 PM	UH0244	Steven W Anderson	
01/19-05/17	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore	
#2097 Section 06 [units: 5]	Gen Ed Laboratory (GL)				
01/19-05/17	R	02:00 PM - 04:45 PM	UH0244	Baocheng Han	
01/19-05/17	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore	
#2103 Section 07 [units: 5]	Gen Ed Laboratory (GL)	NOTE: This section is for students with lab contracts only.				Dept. Consent
01/19-05/17	Arranged	Arranged		Hassimi Traore		
01/19-05/17	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore		
#2114 Section 08 [units: 5]	Gen Ed Laboratory (GL)	NOTE: Restricted to students in the PIE Program at Stoughton High School.				
01/19-05/17	Arranged	Arranged		Eric Benedict	PIE PROGRAM	
01/19-05/17	Arranged	Arranged		Catherine W Chan	PIE PROGRAM	
01/19-05/17	Arranged	Arranged		Kimberly K Naber	PIE PROGRAM	

CHEM 112 CHEMISTRY FOR OCCUPATIONAL AND ENVIRONMENTAL APPLICATIONS ... This course will explore the bonding, structure, properties and reactivity of the main classes of organic compounds focusing on acid/base, redox, and radical reactions. The safety concerns of these reactions will be discussed and predicted by using chemical information found in online and text sources.

PREREQ: CHEM 102

#2100 Section 01 [units: 3]					
01/19-05/17	TR	09:30 AM - 10:45 AM	UH0144	Jessica L Bonjour	

CHEM 184 INTRODUCTION TO CHEMISTRY ... An introduction to career tracks and career opportunities in chemistry. This course will feature readings on different career possibilities in chemistry and visiting lectures by practicing chemists. Professional skills, identification of career tracks, and scientific and technical communication will be emphasized. One hour lecture per week.

PREREQ: DECLARED CHEMISTRY MAJOR OR PERMISSION OF INSTRUCTOR

#2104 Section 01 [units: 1]				
01/19-05/17	T	01:00 PM - 01:50 PM	UH0236	Kimberly K Naber
S/NC Grading Basis Only				

CHEM 251 ORGANIC CHEMISTRY ... Introductory chemistry of the compounds of carbon, their structures and reactions. Taken primarily by chemistry majors and pre-professional students. The foundation for understanding organic reactions is established with an emphasis on bonding, functional groups, three dimensional structure of organic molecules, relationship between structure and reactivity, kinetics, and reaction mechanisms. Three hours of lecture per week.

PREREQ: CHEM 104□

#2075 Section 01 [units: 3]				
01/19-05/17	MWF	09:00 AM - 09:50 AM	UH0143	Sarah Hosseini

CHEM 252 ORGANIC CHEMISTRY ... A continuation of CHEM 251. The goal is to further examine the structure & reactivity relationship with emphasis on reactions and synthesis. It also illustrates how structural features considered in 251, combined with organic reactions learned in 252, can be sources of insight in the overall design of natural products and synthesized materials. Three hours of lecture per week.

PREREQ: CHEM 251

#2076 Section 01 [units: 3]				
01/19-05/17	MWF	09:00 AM - 09:50 AM	UH0144	Steven W Anderson
#2107 Section 02 [units: 3]				
01/19-05/17	TR	11:00 AM - 12:15 PM	UH0144	Hephzibah J Kumpaty

CHEM 261 ORGANIC CHEMISTRY LABORATORY ... Basic organic manipulative techniques and simpler syntheses are considered. Spectroscopic topics are introduced. Generally taken concurrently with CHEM 251. Two three-hour laboratories per week.

COREQ: CHEM 251

#2077 Section 01 [units: 2]
01/19-05/17 TR 08:00 AM - 10:45 AM UH0246 Sarah Hosseini
#2078 Section 02 [units: 2]
01/19-05/17 MW 11:00 AM - 01:45 PM UH0246 Paul G House
#2093 Section 03 [units: 2]
01/19-05/17 TR 11:00 AM - 01:45 PM UH0246 Sarah Hosseini

CHEM 262 ORGANIC CHEMISTRY LABORATORY ... A continuation of CHEM 261. Includes more advanced synthetic work and kinetic and mechanistic investigations, and spectroscopic techniques. Generally taken concurrently with CHEM 252. Two three-hour laboratories per week. (Spring only)

PREREQ: CHEM 261 AND CHEM 252 OR COREQ: CHEM 252

#2079 Section 01 [units: 2]
01/19-05/17 MW 02:00 PM - 04:45 PM UH0246 Hephzibah J Kumpaty
#2083 Section 02 [units: 2]
01/19-05/17 TR 02:00 PM - 04:45 PM UH0246 Steven W Anderson

CHEM 371 PHYSICAL CHEMISTRY ... The general principles governing the behavior of matter are investigated. Topics include the laws of thermodynamics, gases, phase diagrams, chemical equilibrium, electrochemistry, and kinetics. Three house of lecture weekly. (Spring only)

PREREQ: CHEM 352, COREQ MATH 254 AND PHYSCS 181 OR PHYSCS 141

#2080 Section 01 [units: 3]
01/19-05/17 TR 11:00 AM - 12:15 PM UH0236 Paul G House

CHEM 456 BIOCHEMISTRY OF METABOLISM AND SIGNALING ... The chemistry of biological systems, focusing on metabolism and biochemical signaling. Three lectures/week. For Chemistry majors (Biochemistry emphasis), Biology majors (allied health focus) and students interested in Biochemistry postgraduate education.

PREREQ: C OR BETTER IN BIOLOGY 120 OR BIOLOGY 141 (OR EQUIVALENT) OR INSTRUCTOR CONSENT AND BIOLOGY 251 AND BIOLOGY 253 AND CHEM 251 OR CHEM 454 AND CHEM 251

#2087 Section 01 [units: 3]
01/19-05/17 TR 12:30 PM - 01:45 PM UH0141 Christopher T Veldkamp

CHEM 458 RESEARCH IN BIOCHEMISTRY ... A laboratory course that teaches biochemical research techniques through guided original research projects.

PREREQ: BIOLOGY 120 OR BIOLOGY 141 (OR EQUIVALENT) WITH A C OR BETTER AND CHEM 251 OR CONSENT OF INSTRUCTOR. COREQ: CHEM 454 OR BIOLOGY 456/CHEM 456

#2099 Section 01 [units: 2]
01/19-05/17 TR 08:00 AM - 10:45 AM UH0262 Christopher T Veldkamp

CHEM 471 EXPERIMENTAL PHYSICAL CHEMISTRY ... Hands on experience with some experimental techniques of physical chemistry. Three hours of laboratory per week. (Spring only)

COREQ: CHEM 371

#2081 Section 01 [units: 1]
01/19-05/17 M 02:00 PM - 04:45 PM UH0247 Paul G House

CHEM 480 INSTRUMENTAL METHODS OF ANALYSIS ... A survey of optical and electrometic determinations, separation methods and basic instrumentation as applied to chemical analysis. Two one-hour lectures and two three-hour laboratory periods per week.

PREREQ: CHEM 252 AND CHEM 352

#2095 Section 01 [units: 4]
01/19-05/17 TR 03:00 PM - 05:45 PM UH0247 John W Ejnik
01/19-05/17 MW 10:00 AM - 10:50 AM UH0236 John W Ejnik

CHEM 484 TOPICS IN CHEMISTRY ... A course where students will use chemical and scientic literature, introduction to the seminar concept, participation in studies and discussion of current developments in chemistry. The student will review a topic and present that topic orally and in writing. This course may not be used as part of the Chemistry minor.

PREREQ: JUNIOR/SENIOR STATUS OR CONSENT OF INSTRUCTOR

#2086 Section 01 [units: 1]
01/19-05/17 F 12:00 PM - 12:50 PM UH0236 Hephzibah J Kumpaty
S/NC Grading Basis Only

CHEM 488 SENIOR HONORS THESIS ... The senior honors thesis is a requirement of the honors program which is designed to recognize a student's exceptional dedication and ability. Students will complete a substantial research project in their senior year. Results must be written up as a thesis, presented in a seminar, and defended orally.

PREREQ: SENIOR STANDING AND CHEM 498

#2105 Section 01 [units: 1]
01/19-05/17 Arranged Arranged Christopher T Veldkamp

CHEM 492 SUPERVISED TEACHING AIDE ... This course provides students with teaching experience in a college-level chemistry laboratory course they have previously taken. It includes instruction on how to best operate as a teaching aide and in depth instruction on the experiments and instrumentation used in that chemistry course. Prereq: Instructor consent

#2108 Section 01 [units: 1-2] Instructor Consent

01/19-05/17 Arranged Arranged Steven N Girard

S/NC Grading Basis Only

CHEM 493 CHEMISTRY INTERNSHIP ... Variable Topics

#2116 Section 01 [units: 1-3] Dept. Consent

01/19-05/17 Arranged Arranged Steven W Anderson

S/NC Grading Basis Only

CHEM 498 INDEPENDENT STUDY IN CHEMISTRY ... Study of a selected topic or topics under the direction of a faculty member. Repeatable for a maximum of 6 credits in major/degree. Credits in this course may not be used to fulfill minor requirements in Chemistry.

#2106 Section 01 [units: 1-3] Dept. Consent

01/19-05/17 Arranged Arranged Paul G House

#2111 Section 02 [units: 1-3] Dept. Consent

01/19-05/17 Arranged Arranged Christopher T Veldkamp

CHEM 498R INDEPENDENT STUDY - UNDERGRADUATE RESEARCH ... Study of a selected topic or topics under the direction of a faculty member. Repeatable for a maximum of 6 credits in major/degree. Credits in this course may not be used to fulfill minor requirements in Chemistry.

#2113 Section 03 [units: 0.5-3] Dept. Consent

01/19-05/17 Arranged Arranged Paul G House