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

#1808 Section 01 [units: 4] Gen Ed Laboratory (GL)

09/06-12/22	*M*	*09:00 AM - 10:40 AM*	*UH0262*	*John Ejnik*	
09/06-12/22	*TR*	*02:00 PM - 03:15 PM*	*UH0145*	*Jessica Bonjour*	

#1809 Section 02 [units: 4] Gen Ed Laboratory (GL)

09/06-12/22	*M*	*12:00 PM - 01:40 PM*	*UH0262*	*Jessica Bonjour*	
09/06-12/22	*TR*	*02:00 PM - 03:15 PM*	*UH0145*	*Jessica Bonjour*	

#1810 Section 03 [units: 4] Gen Ed Laboratory (GL)

09/06-12/22	*M*	*02:00 PM - 03:40 PM*	*UH0262*	*Kimberly Naber*	
09/06-12/22	*TR*	*02:00 PM - 03:15 PM*	*UH0145*	*Jessica Bonjour*	

#1811 Section 04 [units: 4] Gen Ed Laboratory (GL)

09/06-12/22	*T*	*09:00 AM - 10:40 AM*	*UH0262*	*Jessica Bonjour*	
09/06-12/22	*TR*	*02:00 PM - 03:15 PM*	*UH0145*	*Jessica Bonjour*	

#1880 Section 05 [units: 4] Gen Ed Laboratory (GL)

09/06-12/22	*T*	*12:00 PM - 01:40 PM*	*UH0262*	*Jessica Bonjour*	
09/06-12/22	*TR*	*02:00 PM - 03:15 PM*	*UH0145*	*Jessica 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.

#1813 Section 01 [units: 5] Gen Ed Laboratory (GL)

09/06-12/22	*M*	*08:00 AM - 10:45 AM*	*UH0242*	*Christopher Veldkamp*	
09/06-12/22	*MTWR*	*11:00 AM - 11:50 AM*	*UH0140*	*Steven Girard*	

#1879 Section 02 [units: 5] Gen Ed Laboratory (GL)

09/06-12/22	*M*	*02:00 PM - 04:45 PM*	*UH0242*	*Christopher Veldkamp*	
09/06-12/22	*MTWR*	*11:00 AM - 11:50 AM*	*UH0140*	*Steven Girard*	

#1877 Section 03 [units: 5] Gen Ed Laboratory (GL)

09/06-12/22	*T*	*08:00 AM - 10:45 AM*	*UH0242*	*John Ejnik*	
09/06-12/22	*MTWR*	*11:00 AM - 11:50 AM*	*UH0140*	*Steven Girard*	

#1836 Section 04 [units: 5] Gen Ed Laboratory (GL)

09/06-12/22	*T*	*02:00 PM - 04:45 PM*	*UH0242*	*Steven Girard*	
09/06-12/22	*MTWR*	*11:00 AM - 11:50 AM*	*UH0140*	*Steven Girard*	

#1815 Section 05 [units: 5] Gen Ed Laboratory (GL)

09/06-12/22	*T*	*05:00 PM - 07:45 PM*	*UH0242*	*Marsha Goodell*	
09/06-12/22	*MTWR*	*12:00 PM - 12:50 PM*	*UH0145*	*Kimberly Naber*	

#1841 Section 06 [units: 5] Gen Ed Laboratory (GL)

09/06-12/22	*W*	*08:00 AM - 10:45 AM*	*UH0242*	*Catherine Chan*	
09/06-12/22	*MTWR*	*11:00 AM - 11:50 AM*	*UH0140*	*Steven Girard*	

#1834 Section 07 [units: 5] Gen Ed Laboratory (GL)

09/06-12/22	*W*	*02:00 PM - 04:45 PM*	*UH0242*	*Jessica Bonjour*	
09/06-12/22	*MTWR*	*12:00 PM - 12:50 PM*	*UH0145*	*Kimberly Naber*	

#1839 Section 08 [units: 5] Gen Ed Laboratory (GL)

09/06-12/22	*W*	*05:00 PM - 07:45 PM*	*UH0242*	*Hassimi Traore*	
09/06-12/22	*MTWR*	*12:00 PM - 12:50 PM*	*UH0145*	*Kimberly Naber*	

#1840 Section 09X [units: 5] Gen Ed Laboratory (GL)

09/06-12/22	*R*	*08:00 AM - 10:45 AM*	*UH0242*	*Kimberly Naber*	*LEARNING COMMUNITY*
09/06-12/22	*MTWR*	*12:00 PM - 12:50 PM*	*UH0145*	*Kimberly Naber*	

#1843 Section 10 [units: 5] Gen Ed Laboratory (GL)

09/06-12/22	*R*	*02:00 PM - 04:45 PM*	*UH0242*	*Hassimi Traore*	
09/06-12/22	*MTWR*	*12:00 PM - 12:50 PM*	*UH0145*	*Kimberly Naber*	

#1844 Section 11 [units: 5] Gen Ed Laboratory (GL)

09/06-12/22	*R*	*05:00 PM - 07:45 PM*	*UH0244*	*Christopher Veldkamp*	
09/06-12/22	*MTWR*	*12:00 PM - 12:50 PM*	*UH0145*	*Kimberly Naber*	

#1846 Section 12 [units: 5] Gen Ed Laboratory (GL)

09/06-12/22	*F*	*11:00 AM - 01:45 PM*	*UH0244*	*Kimberly Naber*	
09/06-12/22	*MTWR*	*12:00 PM - 12:50 PM*	*UH0145*	*Kimberly Naber*	

Start/End Dates	Meeting Days	Meeting Times	Location	Instructor	Course Topic (if applicable)	
#1884 Section 17 [units: 5]	Gen Ed Laboratory (GL)	NOTE: Restricted to students in the Stoughton High School PIE cohort.				
09/06-12/22	Arranged	Arranged		Eric Benedict	PIE PROGRAM	
09/06-12/22	Arranged	Arranged		Kimberly Naber	PIE PROGRAM	
09/06-12/22	Arranged	Arranged		Catherine Chan	PIE PROGRAM	
#4756 Section 19 [units: 5]	Gen Ed Laboratory (GL)	NOTE: Restricted to students in the Stoughton PIE Program.				
09/06-12/22	Arranged	Arranged	OFF CAMPUS	Eric Benedict	PIE PROGRAM	
09/06-12/22	Arranged	Arranged	OFF CAMPUS	Kimberly Naber	PIE PROGRAM	
09/06-12/22	Arranged	Arranged	OFF CAMPUS	Catherine Chan	PIE PROGRAM	

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

PREREQ: CHEM 102

#1817 Section 01 [units: 5]	Gen Ed Laboratory (GL)					
09/06-12/22	T	02:00 PM - 04:45 PM	UH0244	Hassimi Traore		
09/06-12/22	MTWR	12:00 PM - 12:50 PM	UH0140	Hassimi Traore		
#1818 Section 02 [units: 5]	Gen Ed Laboratory (GL)					
09/06-12/22	W	08:00 AM - 10:45 AM	UH0244	Baocheng Han		
09/06-12/22	MTWR	12:00 PM - 12:50 PM	UH0140	Hassimi Traore		
#1819 Section 03 [units: 5]	Gen Ed Laboratory (GL)					
09/06-12/22	W	02:00 PM - 04:45 PM	UH0244	Steven Anderson		
09/06-12/22	MTWR	12:00 PM - 12:50 PM	UH0140	Hassimi Traore		
#1831 Section 04 [units: 5]	Gen Ed Laboratory (GL)					
09/06-12/22	R	08:00 AM - 10:45 AM	UH0244	Baocheng Han		
09/06-12/22	MTWR	12:00 PM - 12:50 PM	UH0140	Hassimi Traore		
#1835 Section 05 [units: 5]	Gen Ed Laboratory (GL)					
09/06-12/22	R	02:00 PM - 04:45 PM	UH0244	Christopher Veldkamp		
09/06-12/22	MTWR	12:00 PM - 12:50 PM	UH0140	Hassimi Traore		
#1848 Section 06 [units: 5]	Gen Ed Laboratory (GL)	NOTE: This section is restricted to students with Lab Contracts.				Dept. Consent
09/06-12/22	Arranged	Arranged		Hassimi Traore	LAB CONTRACTS ONLY	
09/06-12/22	MTWR	12:00 PM - 12:50 PM	UH0140	Hassimi Traore		

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

#1852 Section 01 [units: 1]				
09/06-12/22	T	01:00 PM - 01:50 PM	UH0144	John Ejnik
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☐

#1820 Section 01 [units: 3]				
09/06-12/22	MWF	09:00 AM - 09:50 AM	UH0143	Steven Anderson
#1847 Section 02 [units: 3]				
09/06-12/22	TR	11:00 AM - 12:15 PM	UH0144	Hephzibah Kumpaty

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

#1821 Section 01 [units: 3]				
09/06-12/22	MWF	09:00 AM - 09:50 AM	UH0144	John Grutsch

CHEM 260 INTRODUCTION TO INORGANIC CHEMISTRY ... CHEM 260 is an introduction to inorganic chemistry with emphasis on descriptive chemistry, bonding theories, acid-based theories, coordination chemistry and solid state chemistry.

PREREQ: CHEM 104☐

#1849 Section 01 [units: 4]				
09/06-12/22	M	02:00 PM - 04:45 PM	UH0244	Steven Girard
09/06-12/22	MWF	01:00 PM - 01:50 PM	UH0236	Steven Girard

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

#1822 Section 01 [units: 2]				
09/06-12/22	MW	08:00 AM - 10:45 AM	UH0246	Jessica Bonjour

Start/End Dates	Meeting Days	Meeting Times	Location	Instructor	Course Topic (if applicable)
#1823 Section 02 [units: 2]					
09/06-12/22	MW	11:00 AM - 01:45 PM	UH0244	Hephzibah Kumpaty	
#1832 Section 03 [units: 2]					
09/06-12/22	TR	11:00 AM - 01:45 PM	UH0244	John Grutsch	
#1845 Section 04 [units: 2]					
09/06-12/22	TR	02:00 PM - 04:45 PM	UH0246	Steven Anderson	
#4496 Section 05 [units: 2]					
09/06-12/22	TR	05:00 PM - 07:45 PM	UH0246	John Grutsch	

CHEM 352 QUANTITATIVE ANALYSIS ... An introduction to volumetric, gravimetric and photometric techniques and fundamental methods of instrumental analysis. Three one-hour lectures and two three-hour laboratory periods per week. (Fall only)

PREREQ: CHEM 104☐

#1825 Section 01 [units: 5]					
09/06-12/22	MW	08:00 AM - 10:45 AM	UH0247	Kimberly Naber	
09/06-12/22	MWF	12:00 PM - 12:50 PM	UH0144	Baocheng Han	
#1826 Section 02 [units: 5]					
09/06-12/22	MW	02:00 PM - 04:45 PM	UH0247	Baocheng Han	
09/06-12/22	MWF	12:00 PM - 12:50 PM	UH0144	Baocheng Han	
#1833 Section 03 [units: 5]					
09/06-12/22	TR	08:00 AM - 10:45 AM	UH0247	Paul House	
09/06-12/22	MWF	12:00 PM - 12:50 PM	UH0144	Baocheng Han	

CHEM 370 PHYSICAL CHEMISTRY ... The general principles governing the behavior of matter are investigated. Topics include atomic structure and quantum machanics, spectroscopy and topics in solid state chemistry. Three hours of lecture weekly. (Fall only)

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

#1827 Section 01 [units: 3]					
09/06-12/22	TR	12:30 PM - 01:45 PM	UH0236	Paul House	

CHEM 454 BIOCHEMISTRY OF MACROMOLECULES ... The chemistry of the major compounds of living organisms, e.g., proteins, carbohydrates, lipids and nucleic acids, are studied. Meets for 3 lectures/week, and is required for all Chemistry majors.

PREREQ: BIOLOGY 120 OR BIOLOGY 141(OR EQUIVALENT) WITH A C OR BETTER AND CHEM 251 OR CONSENT OF INSTRUCTOR

#1842 Section 01 [units: 3]					
09/06-12/22	TR	11:00 AM - 12:15 PM	UH0142	Christopher Veldkamp	

CHEM 455 ADVANCED ORGANIC CHEMISTRY ... Lectures on advanced topics in organic chemistry. (Fall only)

PREREQ: CHEM 252

#1829 Section 01 [units: 3]					
09/06-12/22	TR	09:30 AM - 10:45 AM	UH0236	Steven Anderson	

CHEM 470 EXPERIMENTAL PHYSICAL CHEMISTRY ... A laboratory course in experimental physical chemistry. Experiments from various areas of physical chemistry will be performed. Three hours of laboratory per week. (Fall only)

COREQ: CHEM 370

#1828 Section 01 [units: 1]					
09/06-12/22	M	05:00 PM - 07:45 PM	UH0247	Paul House	
#4497 Section 02 [units: 1]					
09/06-12/22	W	05:00 PM - 07:45 PM	UH0247	Paul House	

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

#1830 Section 01 [units: 0.5-1]					
09/06-12/22	F	12:00 PM - 12:50 PM	UH0236	Hassimi Traore	
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

#1875 Section 02 [units: 1]					
09/06-12/22	Arranged	Arranged		John Ejnik	

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

#1873 Section 01 [units: 1-2]					Dept. Consent
09/06-12/22	Arranged	Arranged		Hassimi Traore	
S/NC Grading Basis Only					

Class# Section (Units) General Education Designation (if any) Consent

Start/End Dates *Meeting Days* *Meeting Times* *Location* *Instructor* *Course Topic (if applicable)*

CHEM 493 CHEMISTRY INTERNSHIP ... Variable Topics

#1885 Section 01 [units: 1-3] Dept. Consent

09/06-12/22 Arranged Arranged Steven Anderson

S/NC Grading Basis Only

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.

#1837 Section 01 [units: 0.5-3] Dept. Consent

09/06-12/22 Arranged Arranged Steven Girard