

Start/End Dates

Meeting Days

Meeting Times

Location

Instructor

Course Topic (if applicable)

## 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**

#1642	Section 01	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	M	12:00 PM - 01:40 PM	UH0244	Jessica Bonjour			
	01/17-05/19	TR	02:00 PM - 03:15 PM	UH0145	Jessica Bonjour			
#1623	Section 02	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	M	02:00 PM - 03:40 PM	UH0244	Jessica Bonjour			
	01/17-05/19	TR	02:00 PM - 03:15 PM	UH0145	Jessica Bonjour			
#1624	Section 03	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	T	11:00 AM - 12:40 PM	UH0244	Jessica Bonjour			
	01/17-05/19	TR	02:00 PM - 03:15 PM	UH0145	Jessica Bonjour			
#1625	Section 04	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	T	03:30 PM - 05:10 PM	UH0244	Jessica Bonjour			
	01/17-05/19	TR	02:00 PM - 03:15 PM	UH0145	Jessica Bonjour			
#1675	Section 05	[units: 4]	Gen Ed Laboratory (GL)	NOTE: This section is for students with lab contracts only.				Dept. Consent
	01/17-05/19	Arranged	Arranged		Jessica Bonjour			
	01/17-05/19	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.**

#1626	Section 01X	[units: 5]	Gen Ed Laboratory (GL)					
	01/17-05/19	M	08:00 AM - 10:45 AM	UH0242	Jessica Bonjour	LEARNING COMMUNITY		
	01/17-05/19	MTWR	12:00 PM - 12:50 PM	UH0140	Kimberly Naber			
#1628	Section 02	[units: 5]	Gen Ed Laboratory (GL)					
	01/17-05/19	T	08:00 AM - 10:45 AM	UH0242	John Ejnik			
	01/17-05/19	MTWR	12:00 PM - 12:50 PM	UH0140	Kimberly Naber			
#1629	Section 03	[units: 5]	Gen Ed Laboratory (GL)					
	01/17-05/19	W	08:00 AM - 10:45 AM	UH0242	Steven Girard			
	01/17-05/19	MTWR	11:00 AM - 11:50 AM	UH0140	Steven Girard			
#1677	Section 04	[units: 5]	Gen Ed Laboratory (GL)					
	01/17-05/19	R	08:00 AM - 10:45 AM	UH0242	Hassimi Traore			
	01/17-05/19	MTWR	11:00 AM - 11:50 AM	UH0140	Steven Girard			
#1644	Section 05	[units: 5]	Gen Ed Laboratory (GL)					
	01/17-05/19	M	02:00 PM - 04:45 PM	UH0242	Steven Girard			
	01/17-05/19	MTWR	12:00 PM - 12:50 PM	UH0140	Kimberly Naber			
#1648	Section 06	[units: 5]	Gen Ed Laboratory (GL)					
	01/17-05/19	T	02:00 PM - 04:45 PM	UH0242	Kimberly Naber			
	01/17-05/19	MTWR	11:00 AM - 11:50 AM	UH0140	Steven Girard			
#1652	Section 07	[units: 5]	Gen Ed Laboratory (GL)					
	01/17-05/19	W	02:00 PM - 04:45 PM	UH0242	Steven Girard			
	01/17-05/19	MTWR	12:00 PM - 12:50 PM	UH0140	Kimberly Naber			
#1656	Section 08	[units: 5]	Gen Ed Laboratory (GL)					
	01/17-05/19	R	02:00 PM - 04:45 PM	UH0242	Hephzibah Kumpaty			
	01/17-05/19	MTWR	11:00 AM - 11:50 AM	UH0140	Steven Girard			
#1662	Section 09	[units: 5]	Gen Ed Laboratory (GL)	NOTE: This section is for students with Lab Contracts only				Dept. Consent
	01/17-05/19	Arranged	Arranged		Kimberly Naber			
	01/17-05/19	MTWR	12:00 PM - 12:50 PM	UH0140	Kimberly Naber			
#1661	Section 10	[units: 5]	Gen Ed Laboratory (GL)	NOTE: This section is for students with Lab Contracts only				Dept. Consent
	01/17-05/19	Arranged	Arranged		Steven Girard			
	01/17-05/19	MTWR	11:00 AM - 11:50 AM	UH0140	Steven Girard			

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

**PREREQ: CHEM 102**

#1631	Section 01	[units: 5]	Gen Ed Laboratory (GL)					
	01/17-05/19	M	08:00 AM - 10:45 AM	UH0244	Christopher Veldkamp			
	01/17-05/19	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore			

<i>Start/End Dates</i>	<i>Meeting Days</i>	<i>Meeting Times</i>	<i>Location</i>	<i>Instructor</i>	<i>Course Topic (if applicable)</i>
#1633 Section 02 [units: 5]	Gen Ed Laboratory (GL)				
01/17-05/19	W	08:00 AM - 10:45 AM	UH0244	Hassimi Traore	
01/17-05/19	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore	
#1676 Section 03 [units: 5]	Gen Ed Laboratory (GL)				
01/17-05/19	R	08:00 AM - 10:45 AM	UH0244	Baocheng Han	
01/17-05/19	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore	
#1634 Section 03X [units: 5]	Gen Ed Laboratory (GL)				
01/17-05/19	R	08:00 AM - 10:45 AM	UH0244	Baocheng Han	
01/17-05/19	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore	
#1645 Section 04 [units: 5]	Gen Ed Laboratory (GL)				
01/17-05/19	R	02:00 PM - 04:45 PM	UH0244	Hassimi Traore	
01/17-05/19	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore	
#1649 Section 05 [units: 5]	Gen Ed Laboratory (GL)				
01/17-05/19	W	02:00 PM - 04:45 PM	UH0244	Steven Anderson	
01/17-05/19	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore	
#1657 Section 06 [units: 5]	Gen Ed Laboratory (GL)				
01/17-05/19	W	05:00 PM - 07:45 PM	UH0244	Hassimi Traore	
01/17-05/19	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore	
#1663 Section 07 [units: 5]	Gen Ed Laboratory (GL)		NOTE: This section is for students with lab contracts only.		Dept. Consent
01/17-05/19	Arranged	Arranged		Hassimi Traore	
01/17-05/19	MTWR	12:00 PM - 12:50 PM	UH0145	Hassimi Traore	
#1672 Section 08 [units: 5]	Gen Ed Laboratory (GL)		NOTE: Restricted to students in the Partners in Education (PIE) program at DSHA High School		
01/17-05/19	Arranged	Arranged	OFF CAMPUS	Eric Benedict	PIE PROGRAM
01/17-05/19	Arranged	Arranged	OFF CAMPUS	Catherine Chan	PIE PROGRAM
01/17-05/19	Arranged	Arranged	OFF CAMPUS	Kimberly 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**

#1660 Section 01 [units: 3]					
01/17-05/19	TR	09:30 AM - 10:45 AM	UH0144	Jessica 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**

#1664 Section 01 [units: 1]					
01/17-05/19	T	01:00 PM - 01:50 PM	UH0236	Kimberly 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**

#1635 Section 01 [units: 3]					
01/17-05/19	MWF	09:00 AM - 09:50 AM	UH0143	John Grutsch	

**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**

#1636 Section 01 [units: 3]					
01/17-05/19	MWF	09:00 AM - 09:50 AM	UH0144	Steven Anderson	
#1667 Section 02 [units: 3]					
01/17-05/19	TR	11:00 AM - 12:15 PM	UH0144	Hephzibah 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**

#1637 Section 01 [units: 2]					
01/17-05/19	TR	08:00 AM - 10:45 AM	UH0246	John Grutsch	
#1638 Section 02 [units: 2]					
01/17-05/19	MW	11:00 AM - 01:45 PM	UH0246	Paul House	
#1653 Section 03 [units: 2]					
01/17-05/19	TR	11:00 AM - 01:45 PM	UH0246	John Grutsch	

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

#1639	Section 01	[units: 2]				
01/17-05/19	MW	02:00 PM - 04:45 PM	UH0246	Hephzibah Kumpaty		
#1643	Section 02	[units: 2]				
01/17-05/19	TR	02:00 PM - 04:45 PM	UH0246	Steven Anderson		

**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**

#3983	Section 01	[units: 5]				
01/17-05/19	MW	02:00 PM - 04:45 PM	UH0247	Kimberly Naber		
#3982	Section 01C	[units: 5]				
01/17-05/19	TR	02:00 PM - 03:15 PM	UH0236	Baocheng Han		

**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 hours of lecture weekly. (Spring only)

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

#1640	Section 01	[units: 3]				
01/17-05/19	TR	11:00 AM - 12:15 PM	UH0236	Paul 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**

#1647	Section 01	[units: 3]				
01/17-05/19	TR	12:30 PM - 01:45 PM	UH0144	Christopher 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**

#1659	Section 01	[units: 2]				
01/17-05/19	TR	08:00 AM - 10:45 AM	UH0262	Christopher 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**

#1641	Section 01	[units: 1]				
01/17-05/19	R	02:00 PM - 04:45 PM	UH0247	Paul House		

**CHEM 480 INSTRUMENTAL METHODS OF ANALYSIS ...** A survey of optical and electrometric 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**

#1655	Section 01	[units: 4]				
01/17-05/19	T	03:00 PM - 05:45 PM	UH0247	John Ejnik		
01/17-05/19	MWF	10:00 AM - 10:50 AM	UH0236	John Ejnik		

**CHEM 484 TOPICS IN CHEMISTRY ...** A course where students will use chemical and scientific 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**

#1646	Section 01	[units: 0.5-1]				
01/17-05/19	F	12:00 PM - 12:50 PM	UH0236	Hephzibah 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**

#1665	Section 01	[units: 1]				
01/17-05/19	Arranged	Arranged		Christopher 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

#1668	Section 01	[units: 1-2]				Instructor Consent
01/17-05/19	Arranged	Arranged		Kimberly Naber		
S/NC Grading Basis Only						

<i>Start/End Dates</i>	<i>Meeting Days</i>	<i>Meeting Times</i>	<i>Location</i>	<i>Instructor</i>	<i>Course Topic (if applicable)</i>	
<b>CHEM 493 CHEMISTRY INTERNSHIP ... Variable Topics</b>						
#1674	Section 01	[units: 1-3]				Dept. Consent
01/17-05/19	Arranged	Arranged		Steven Anderson		
S/NC Grading Basis Only						
<b>CHEM 498R INDEPENDENT STUDY - UNDERGRADUATE RESEARCH ... Study of a selected topic or topics under the direction of a faculty member.</b>						
<b>Repeatable for a maximum of 6 credits in major/degree. Credits in this course may not be used to fulfill minor requirements in Chemistry.</b>						
#1651	Section 01	[units: 0.5-3]				Dept. Consent
01/17-05/19	Arranged	Arranged		Steven Anderson		
#1670	Section 02	[units: 0.5-3]				Dept. Consent
01/17-05/19	Arranged	Arranged		Jessica Bonjour		
#1671	Section 03	[units: 0.5-3]				Dept. Consent
01/17-05/19	Arranged	Arranged		Paul House		
#1673	Section 04	[units: 0.5-3]				Dept. Consent
01/17-05/19	Arranged	Arranged		John Ejnik		
#4397	Section 05	[units: 0.5-3]				Dept. Consent
01/17-05/19	Arranged	Arranged		Steven Girard		
#4398	Section 06	[units: 0.5-3]				Dept. Consent
01/17-05/19	Arranged	Arranged		Baocheng Han		
#4399	Section 07	[units: 0.5-3]				Dept. Consent
01/17-05/19	Arranged	Arranged		Hephzibah Kumpaty		
#4400	Section 08	[units: 0.5-3]				Dept. Consent
01/17-05/19	Arranged	Arranged		Hassimi Traore		
#4401	Section 09	[units: 0.5-3]				Dept. Consent
01/17-05/19	Arranged	Arranged		Christopher Veldkamp		
#4611	Section 10	[units: 0.5-3]				Dept. Consent
01/17-03/11	Arranged	Arranged		John Ejnik		