

DATE: 01-16-2018  
 TIME: 20:10:03

UNIVERSITY OF WASHINGTON STUDENT RECORDS SYSTEM  
 DETAILED CURRICULUM REPORT  
 Seattle CAMPUS

REPORT: SR21010-R-01 K  
 PAGE: 240

COLLEGE : C - Arts & Sciences  
 DEPARTMENT: CHEMISTRY

CURRIC NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D		D	S H F			V L E E W					RESPONS COURSE	JOINT COURSES	O M I T
				-ALL U	GRD		U N E	P	& N C M S N	A	S	W	T	P			
CHEM 110	PREP GEN CHEM Preparation for General Chemistry	AUT/2017 - AUT/9999	3.0-05.0	.	CR/NC	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 3/31/17 APPROVED:10/24/91													
CHEM 120	PRINCIPLES OF CHEM I Principles of Chemistry I	AUT/2017 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	Y	.	.	.	.	.
				LAST UPDT: 3/31/17 FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081													
CHEM 142	GENERAL CHEMISTRY General Chemistry	WIN/2018 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	Y	.	.	.	.	.
				LAST UPDT: 1/04/18 APPROVED: 2/14/97 FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081													
CHEM 143	ACCELERATD GEN CHEM Accelerated General Chemistry	AUT/2017 - AUT/9999	6.0	.	.	.	.	.	.	.	.	.	.	.	Y	.	.
				LAST UPDT: 4/13/17 APPROVED: 4/22/16													
CHEM 144	ADV GENERAL CHEM ADVANCED GENERAL CHEMISTRY	AUT/2009 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	Y	.	.	.	.	.
				LAST UPDT: 7/31/12 APPROVED: 6/16/09 FEE TYPE:1 \$55.00 BUDGET:069318 REV OBJ CD:943081													
CHEM 145	H-GENERAL CHEMISTRY Honors General Chemistry	AUT/2013 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	Y	.	.	.	.	.
				LAST UPDT: 2/09/15 COMMENT:EMAIL PREQ CHG FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081													
CHEM 152	GENERAL CHEMISTRY General Chemistry	WIN/2018 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	Y	.	.	.	.	.
				LAST UPDT:12/13/17 APPROVED: 2/14/97 FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081													
CHEM 153	AACELERATD GEN CHEM Accelerated General Chemistry	WIN/2017 - AUT/9999	6.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 5/02/17 APPROVED: 4/22/16													
CHEM 154	ADV GENERAL CHEM ADVANCED GENERAL CHEMISTRY	AUT/2009 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	Y	.	.	.	.	.
				LAST UPDT: 7/31/12 APPROVED: 6/16/09 FEE TYPE:1 \$55.00 BUDGET:069318 REV OBJ CD:943081													

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CURRIC NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D				S H F			V L E E W					RESPONS COURSE	JOINT COURSES	O M I T
				-ALL	U	GRD	E	U	N	E	P	& N	C	M	S			
CHEM 155	H-GENERAL CHEMISTRY Honors General Chemistry	AUT/2008 - AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	Y	.	.	.	.	
				LAST UPDT: 2/09/15 COMMENT:CHG DESC PER 08-10 UPDATE FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081														
CHEM 162	GENERAL CHEMISTRY General Chemistry	AUT/2015 - AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	Y	.	.	.	.	
				LAST UPDT: 3/11/15 APPROVED: 2/14/97 COMMENT:CHG DESC FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081														
CHEM 164	ADV GENERAL CHEM ADVANCED GENERAL CHEMISTRY	AUT/2009 - AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	Y	.	.	.	.	
				LAST UPDT: 7/31/12 APPROVED: 6/16/09 FEE TYPE:1 \$55.00 BUDGET:069318 REV OBJ CD:943081														
CHEM 165	H-GENERAL CHEMISTRY Honors General Chemistry	AUT/2008 - AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	Y	.	.	.	.	
				LAST UPDT: 2/09/15 APPROVED: 2/23/96 COMMENT:CHG DESC PER 08-10 UPDATE FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081														
CHEM 190	DISCOVERY SEMINAR Freshman Discovery Seminar in Chemistry	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	
				LAST UPDT: 3/18/09 APPROVED: 3/17/09														
CHEM 192	CHEM ACHVMNT WRKSHP Chemistry Achievement Workshop	SUM/2016 - AUT/9999	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 7/07/16 APPROVED:10/20/15														
CHEM 197	SCI OUTREACH TRAIN SCIENCE OUTREACH TRAINING	WIN/2017 - AUT/9999	1.0-02.0	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT:12/23/16 APPROVED: 9/27/93														
CHEM 198	TUTORIAL STUDY Tutorial Study	SUM/2016 - AUT/9999	2.0	6.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 4/20/16														
CHEM 199	SPECIAL PROBLEMS Special Problems	SPR/1995 - AUT/9999	1.0-06.0	6.0	Y	CR/NC	.	.	Y	.	.	.	.	.	.	.	.	
				LAST UPDT: 7/23/15 FEE TYPE:1 \$50.00 BUDGET:069318 REV OBJ CD:943081														
CHEM 220	PRINCIPLES CHEM II Principles of Chemistry II	AUT/2012 - AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.	
				LAST UPDT: 2/09/15 COMMENT:12-14 DESC, PREQ CHG FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081														



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CURRIC	NUM	TITLE	EFFECTIVE	QUARTERS	CREDITS	OVER D		D	S H F			V L E E W					RESPONS	JOINT	O
						-ALL	U		GRD	E	U	N	E	P	&	N			
CHEM	297	SCI OUTREACH PARTIC SCIENCE OUTREACH PARTICIPATION	WIN/2017 -	AUT/9999	1.0-02.0	6.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	
						LAST UPDT:12/23/16		APPROVED: 9/27/93											
CHEM	299	SPEC PROBS/RPT WRTG Special Problems and Report Writing	SPR/1995 -	AUT/9999	1.0-06.0	6.0	Y	CR/NC	.	.	.	.	.	.	.	.	Y	.	
						LAST UPDT: 8/17/06		APPROVED: 9/20/84											
CHEM	312	INORGANIC CHEMISTRY Inorganic Chemistry	AUT/2016 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.		
						LAST UPDT: 7/18/16		APPROVED:10/01/89											
CHEM	317	INORGANIC CHEM LAB Inorganic Chemistry Laboratory	WIN/2017 -	AUT/9999	4.0	.	.	.	.	Y	.	.	Y	.	.	.	.		
						LAST UPDT: 7/18/16		APPROVED:10/01/89		FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081									
CHEM	321	QUANTITATIVE ANLYS Quantitative Analysis	AUT/2009 -	AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.		
						LAST UPDT: 2/09/15		APPROVED: 9/01/77		COMMENT:CHG PREQ FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081									
CHEM	335	H-ORGANIC CHEMISTRY Honors Organic Chemistry	AUT/2012 -	AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.		
						LAST UPDT: 7/31/12		APPROVED: 2/01/71		COMMENT:12-14 PREQ CHG									
CHEM	336	H-ORGANIC CHEMISTRY Honors Organic Chemistry	WIN/1986 -	AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.		
						LAST UPDT:10/26/04		APPROVED: 2/01/71											
CHEM	337	H-ORGANIC CHEMISTRY Honors Organic Chemistry	WIN/2003 -	AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.		
						LAST UPDT: 2/23/05		APPROVED: 2/01/71		COMMENT:CHG DESCRIPTION									
CHEM	346	H-ORGANIC CHEM LAB Organic Chemistry Honors Laboratory	WIN/2015 -	AUT/9999	3.0	.	.	.	.	Y	.	.	Y	.	.	.	.		
						LAST UPDT: 2/09/15		APPROVED: 9/01/77		COMMENT:EMAIL PREREQ CHANGE FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081									
CHEM	347	H-ORG&QUAL ORGN LAB Organic and Qualitative Organic Honors Laboratory	WIN/2015 -	AUT/9999	3.0	.	.	.	.	Y	.	.	Y	.	.	.	.		
						LAST UPDT: 2/09/15		APPROVED:		COMMENT:EMAIL PREQ CHG FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081									

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				-ALL U	GRD	D	E		P & A	N & S	C & T	M & P	S & R			
CHEM 397	SCI OUTREACH MENTOR SCIENCE OUTREACH MENTORS	AUT/1998 - AUT/9999	1.0-02.0	6.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.
								LAST UPDT: 8/25/16		APPROVED: 9/27/93						
CHEM 399	UNDERGRAD RESEARCH Undergraduate Research	AUT/1984 - AUT/9999	0.0	12.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	.
								LAST UPDT: 4/11/94								
CHEM 410	RADIOCHEM LAB Radiochemistry Laboratory	WIN/2013 - AUT/9999	2.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.
	COMMENT:EMAIL PREQ CHG							LAST UPDT: 2/09/15		APPROVED:12/01/89		FEE TYPE:1		\$65.00 BUDGET:069318		REV OBJ CD:943081
CHEM 415	THE CHEMICAL BOND THE CHEMICAL BOND	SPR/2002 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.	.	.	.
	COMMENT:GENCAT PREREQ CHANGE							LAST UPDT: 1/16/02								
CHEM 416	TRANSITION METALS Transition Metals	SPR/2002 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.	.	.	.
	COMMENT:GENCAT PREREQ CHANGE							LAST UPDT: 4/21/05		APPROVED: 6/01/85						
CHEM 417	ORGANOMETALLIC CHEM Organometallic Chemistry	AUT/2016 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.	.	.	.
								LAST UPDT: 7/18/16		APPROVED:12/01/87						
CHEM 418	NUCLEAR CHEMISTRY Nuclear Chemistry	WIN/2016 - SPR/2018	3.0	.	.	.	.	.	.	Y	.	.	.	.	.	.
								LAST UPDT:12/27/17		APPROVED: 5/01/81						
CHEM 418	NUCLEAR CHEMISTRY Nuclear Chemistry	SUM/2018 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.	.	.	.
								LAST UPDT:12/27/17		APPROVED: 5/01/81						
CHEM 419	BIOINORGANIC CHEM Bioinorganic Chemistry	AUT/2016 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.	.	.	.
								LAST UPDT: 7/18/16		APPROVED:10/01/89						
CHEM 425	MESO/MICROFLUIDICS Meso and Microfluidics in Chemical Analysis	SPR/2017 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.	.	.	.
								LAST UPDT:12/23/16		APPROVED: 9/20/16						

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CURRIC	NUM	COURSE TITLE	EFFECTIVE	QUARTERS	CREDITS	OVER D		D	S H F			V	E E W			RESPONS	JOINT	O					
						-ALL	U		GRD	E	U		N	E	P				& N	C	M	S	N
						MAX	P	SYS	D	HYPH	M	R	E	A	S	W	T	P	R	G	COURSE	COURSES	T
CHEM	426	INSTRUMENTAL ANLYS Instrumental Analysis	SPR/1992 -	AUT/9999	3.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 2/09/15 APPROVED: 9/27/91 FEE TYPE:3 \$65.00 BUDGET:069318 REV OBJ CD:943081																	
CHEM	428	BIOINSTRUMENT ANLYS Bioinstrumental Analysis	SPR/2009 -	AUT/9999	3.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 2/09/15 APPROVED:10/26/04 COMMENT:CHG PREQ FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081																	
CHEM	429	SEPARATION TECHS Chemical Separation Techniques	AUT/2016 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 7/18/16 APPROVED: 2/01/84																	
CHEM	430	ADV PHYS ORGNC CHEM Advanced Physical Organic Chemistry	AUT/2016 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 7/18/16 APPROVED: 9/15/15																	
CHEM	431	ADV SYN ORGNC CHEM Advanced Synthetic Organic Chemistry	WIN/2016 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 9/24/15 APPROVED: 9/15/15																	
CHEM	432	ADV BIO ORGNC CHEM Advanced Bio-Organic Chemistry	AUT/2016 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 7/18/16 APPROVED: 9/15/15																	
CHEM	433	THEORETICAL ORGANIC THEORTCL ORGANIC CHMSTRY-PREDICTNS & EXPRMNTL TSTS	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 7/09/09 APPROVED: 2/22/93 COMMENT:EMAIL PREQ CHG																	
CHEM	434	POLYMER CHEMISTRY Polymer Chemistry	AUT/2016 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 2/23/16 APPROVED: 2/23/16																	
CHEM	436	CHEMICAL BIOLOGY Chemical Biology	WIN/2016 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 7/18/16 APPROVED: 2/28/94																	
CHEM	437	DNA & PROTEIN CHEM ORGANIC & BIOORGANIC CHEM NUCLEIC ACIDS IN PROTEIN	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 7/09/09 APPROVED: 2/28/92 COMMENT:EMAIL PREQ CHG																	

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				-ALL U	GRD		U	E	U	N	E	P	& N	C			
CHEM 452	PHYS CHEM BIOC I Physical Chemistry for Biochemists I	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
	COMMENT:14-16 DESC CHG																
CHEM 453	PHYS CHEM BIOC II Physical Chemistry for Biochemists II	WIN/2000 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
CHEM 454	BIOMOLE SPECTROSCOPY Introduction to Biomolecular Spectroscopy	SPR/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
CHEM 455	PHYSICAL CHEMISTRY Physical Chemistry	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
	COMMENT:12-14 PREQ CHG																
CHEM 456	PHYSICAL CHEMISTRY Physical Chemistry	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
	COMMENT:12-14 PREQ CHG																
CHEM 457	PHYSICAL CHEMISTRY Physical Chemistry	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
	COMMENT:EMAIL PREQ CHG																
CHEM 458	AIR POLLUTION CHEM Air Pollution Chemistry	AUT/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	ATM S 458	ATM S 458
	COMMENT:CHG TITLES, PREQ, DESC																
CHEM 460	SPECT MOLEC IDENT Spectroscopic Molecular Identification	AUT/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
CHEM 461	PHYS CHEM LAB Physical Chemistry Laboratory	SPR/2007 - AUT/9999	3.0	.	.	.	.	.	Y	.	Y	.	.	.	.	.	.
	COMMENT:CHG CREDITS, PREQ																

LAST UPDT: 2/09/15 APPROVED: 7/01/71  
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						-ALL	U	GRD	E	U	N	E	P	N	C	M	S				N		
						MAX	P	SYS	D	HYPH	M	R	E	A	S	W	T	P	R	G	COURSE	COURSES	T
CHEM	462	SYNTH ORGANIC TECH Techniques of Synthetic Organic Chemistry	AUT/2016	- AUT/9999	2.0-03.0	3.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.			.	
						LAST UPDT: 7/18/16																	
						FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081																	
CHEM	463	SPECTRO TECHNIQUES Spectroscopic Techniques for Structural Identification	AUT/1980	- AUT/9999	2.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.			.		
						LAST UPDT: 2/09/15 APPROVED:12/01/83																	
						FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081																	
CHEM	464	COMPUTER DATA ANLYS Computers in Data Acquisition and Analysis	SPR/2002	- AUT/9999	3.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.			.		
						LAST UPDT: 2/09/15 APPROVED: 9/27/91																	
						COMMENT:GENCAT PREREQ CHANGE FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081																	
CHEM	465	COMPUTATIONAL CHEM Computational Chemistry	WIN/2018	- AUT/9999	3.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.			.		
						LAST UPDT: 9/22/17 APPROVED: 2/28/94																	
						FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081																	
CHEM	466	ENERGY MAT DEV & SYS Energy Materials, Devices, and Systems	AUT/2017	- AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.		CHEM	466	CHEM E440	.
						LAST UPDT: 5/08/17 APPROVED: 3/21/17																	
						MSE 466																	
CHEM	475	H-PHYSICAL CHEM Honors Physical Chemistry	AUT/2012	- AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.			.		
						LAST UPDT: 7/31/12 APPROVED: 2/25/00																	
						COMMENT:12-14 PREQ CHG																	
CHEM	476	HONORS PHYS CHEM HONORS PHYSICAL CHEMISTRY	WIN/2001	- AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.			.		
						LAST UPDT: 3/16/00 APPROVED: 2/25/00																	
CHEM	477	HONORS PHYS CHEM HONORS PHYSICAL CHEMISTRY	SPR/2001	- AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.			.		
						LAST UPDT: 3/16/00 APPROVED: 2/25/00																	
CHEM	484	ELECT & OPTO POLYMERS Electronic and Optoelectronic Polymers	AUT/2015	- AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.		CHEM	484	MSE 484	.
						LAST UPDT:12/17/15 APPROVED: 2/24/06																	
CHEM	485	ELEC STRUCT MATERLS Electronic Structure and Application of Materials	WIN/2015	- AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.			.		
						LAST UPDT: 9/17/14 APPROVED: 9/16/14																	



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CURRIC NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D		D	S H F			V	E E W					RESPONS COURSE	JOINT COURSES	O M I T	
				-ALL	U		GRD	E	U		N	E	P	& N	C				M
CHEM 486	ELEC DYN ORG INORG Electronic Dynamics in Organic and Inorganic Materials	WIN/2015 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	
				LAST UPDT: 9/17/14		APPROVED: 9/16/14													
CHEM 491	ADV STUDY ABROAD Study Abroad - Advanced Chemistry	SPR/2007 - AUT/9999	1.0-15.0	15.0	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	
				LAST UPDT: 1/24/07		APPROVED: 1/24/07													
CHEM 496	UG RES SEMINAR RESEARCH SEMINAR FOR UNDERGRADUATES	WIN/2004 - AUT/9999	1.0	2.0	.	CR/NC	.	.	.	.	Y	.	.	.	.	CHEM 496	BIOC 496	.	
				LAST UPDT:10/27/03		APPROVED: 6/21/99													
				COMMENT:EMAIL PREREQ CHANGE															
CHEM 498	TEACHING CHEMISTRY Teaching Chemistry	WIN/1992 - AUT/9999	3.0	.	.	CR/NC	.	.	.	.	Y	.	.	.	.	.	.	.	
				LAST UPDT: 7/23/14		APPROVED: 9/27/91													
CHEM 499	UG RES/REPORT WRTG Undergraduate Research and Report Writing	AUT/1985 - AUT/9999	0.0	12.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	Y	.	.	
				LAST UPDT: 4/11/94															
CHEM 500	GRNT PRPS & SCI WRT Grant Proposal and Scientific Writing	AUT/2013 - AUT/9999	1.0	.	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 9/17/13		APPROVED: 9/17/13													
CHEM 501	READINGS IN CHEM Readings in Chemistry	WIN/1997 - AUT/9999	1.0	9.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 1/15/97		APPROVED:12/31/96													
CHEM 502	PRACTICAL NMR PRACT NMR METH FOR BIOL & ORG STRUCT ELUCIDATION	WIN/1991 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 0/00/00		APPROVED:10/01/89													
CHEM 508	ADV INORGANIC CHEM Advanced Inorganic Chemistry	SPR/1972 - AUT/9999	3.0	9.0	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 0/00/00															
CHEM 510	CRNT PRBS INOR CHEM Current Problems in Inorganic Chemistry	WIN/2006 - AUT/9999	3.0	9.0	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 8/18/05		APPROVED:12/01/87													
				COMMENT:CHANGE CREDITS															

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						-ALL	U		GRD	E	U	N	E	P	&	N			
CHEM	516	TRANSITION METALS Transition Metals	AUT/2015 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 9/17/15		APPROVED: 9/15/15											
CHEM	517	ORGANOMETALLICS Organometallics	WIN/2016 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT:10/21/15		APPROVED:10/20/15											
CHEM	520	CRNT PRB ANLYT CHEM Current Problems in Analytical Chemistry	WIN/2006 -	AUT/9999	3.0	9.0	Y	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 8/18/05		COMMENT:CHANGE CREDITS											
CHEM	521	ELECTROCHEMISTRY Analytical Electrochemistry	SPR/1986 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 9/09/15		APPROVED:12/01/85											
CHEM	522	ANLYT SPECTROSCOPY Atomic and Molecular Analytical Spectroscopy	AUT/1986 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT:10/15/92		APPROVED:12/01/85											
CHEM	523	GEOCHEMICAL CYCLES Geochemical Cycles	SPR/2010 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 3/22/16		APPROVED:12/20/99		OCEAN 523 ATM S 508									
										OCEAN 523									
CHEM	524	ANLYT MASS SPECTROM Analytical Mass Spectrometry	WIN/2016 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT:10/21/15		APPROVED:10/20/15											
CHEM	525	MESO/MICROFLUIDICS Meso and Microfluidics in Chemical Analysis	SPR/2017 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT:11/15/16		APPROVED: 9/20/16											
CHEM	526	CHEMOMETRICS CHEMOMETRICS	AUT/1986 -	AUT/9999	3.0	9.0	Y	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 8/17/06													
CHEM	529	SEPARATION TECHS Chemical Separation Techniques	SPR/2012 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT:11/15/11		APPROVED:11/15/11											

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				-ALL U	GRD		U	E	U	N	E	P	& N	C			
CHEM 530	ADV PHYS ORGNC CHEM Advanced Physical Organic Chemistry	AUT/2015 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/24/15		APPROVED: 2/01/80											
CHEM 531	ADV SYN ORGNC CHEM Advanced Synthetic Organic Chemistry	WIN/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/23/15													
CHEM 532	ADV BIO ORGNC CHEM Advanced Bio-Organic Chemistry	SPR/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/23/15		APPROVED: 2/01/80											
CHEM 534	POLYMER CHEMISTRY Polymer Chemistry	AUT/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/23/16		APPROVED: 2/23/16											
CHEM 536	CHEMICAL BIOLOGY Chemical Biology	WIN/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/22/16		APPROVED: 12/16/14											
CHEM 540	CUR PROBS ORGN CHEM CURRENT PROBLEMS IN ORGANIC CHEMISTRY	SPR/1997 - AUT/9999	1.0-03.0	12.0	Y	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/11/14													
CHEM 545	DATA SCI CLEAN ENRG Data Science Methods for Clean Energy Research	WIN/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	CHEM E545	CHEM E545
				LAST UPDT: 12/07/17		APPROVED: 4/18/17											
CHEM 546	SW ENGR MOL DATA SCI Software Engineering for Molecular Data Scientists	WIN/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	CHEM E546	CHEM E546
				LAST UPDT: 12/07/17		APPROVED: 4/18/17											
CHEM 550	INTRO QUANTUM CHEM Introduction to Quantum Chemistry	AUT/1968 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/05/10													
CHEM 551	INTRO QUANTUM CHEM Introduction to Quantum Chemistry	WIN/2015 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/18/14													
				COMMENT:EMAIL ENFORCE PREQ													
CHEM 552	STATISTCL MECHANICS Statistical Mechanics	WIN/1969 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/03/10													

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					-ALL U	GRD		E	U	N								
CHEM 553	STATISTCL MECHANICS Statistical Mechanics	SPR/1969 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 3/03/10													
CHEM 554	BIOMOLE SPECTROSCOPY Introduction to Biomolecular Spectroscopy	SPR/2017 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 9/30/16 APPROVED: 9/20/16													
CHEM 559	CHEMICAL KINETICS CHEMICAL KINETICS	WIN/1979 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 0/00/00													
CHEM 560	CUR PROB PHYS CHEM Current Problems in Physical Chemistry	SPR/1997 -	AUT/9999	1.0-03.0	12.0	Y	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 1/09/97 APPROVED: 3/01/77													
CHEM 562	SURFACE-MEMBRANE SURFACE AND MEMBRANE CHEMISTRY	SPR/1978 -	AUT/9999	3.0	9.0	Y	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 1/06/93 APPROVED: 3/01/77													
CHEM 563	MAGNETIC RESONANCE MAGNETIC RESONANCE METHODS IN CHEMISTRY	SPR/1978 -	AUT/9999	3.0	9.0	Y	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/17/06 APPROVED: 3/30/77													
CHEM 564	ELECT/PHOTONIC MTLs Organic Electronic and Photonic Materials/Polymers	WIN/2016 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	MSE	560	MOLENG530
					LAST UPDT:10/21/15 APPROVED: 8/20/04 MSE 560													
CHEM 565	COMPUTATION IN CHEM Computations in Chemistry	WIN/2012 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 9/21/11 APPROVED: 9/20/11													
CHEM 566	ENERGY MAT DEV & SYS Energy Materials, Devices, and Systems	AUT/2017 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	CHEM	566	CHEM E540
					LAST UPDT: 5/08/17 APPROVED: 3/21/17 MSE 566													
CHEM 567	COMPUTER DATA ANLYS Computers in Data Acquisition and Analysis	AUT/2017 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 3/31/17 APPROVED: 3/21/17													
CHEM 571	RESEARCH INORGANIC Current Research Topics in Inorganic Chemistry	SPR/2018 -	AUT/9999	1.0	18.0	CR/NC	.	.	.	.	.	.	.	.	.	.	.	Y
					LAST UPDT:12/22/17													



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					-ALL	U		GRD	E	U	N	E	P	&	N				C	M	S	N
					MAX	P	SYS	D	HYPH	M	R	E	A	S	W	T	P	R	G	COURSE	COURSES	T
CHEM 597	SEMINAR IN MOLENG Seminar in Molecular Engineering	WIN/2017 -	AUT/9999	1.0	30.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	MOLENG520	MOLENG520	.
					LAST UPDT:10/05/16 APPROVED:11/18/14																	
CHEM 600	INDEPN DNT STDY/RSCH Independent Study or Research	AUT/1967 -	AUT/9999	0.0	999.0	.	.	11	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 4/19/10																	
CHEM 700	MASTERS THESIS Master's Thesis	WIN/1970 -	AUT/9999	0.0	999.0	.	.	11	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 4/19/10 APPROVED: 1/01/70																	
CHEM 800	DOCTORAL DISSERTATN Doctoral Dissertation	AUT/1970 -	AUT/9999	0.0	999.0	.	.	11	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 4/19/10 APPROVED: 1/01/70																	