

DATE: 10-08-2018
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DETAILED CURRICULUM REPORT
Seattle CAMPUS

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COLLEGE : C - Arts & Sciences
DEPARTMENT: CHEMISTRY

CURRIC	COURSE NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D D S H F L I E E W										RESPONS	JOINT	O
						-ALL MAX	U P	GRD SYS	E D	HYPH	U M	N R	E E	P A	& S			
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: 3/01/18 FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081																		
CHEM	142	GENERAL CHEMISTRY General Chemistry	WIN/2018 -	AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	Y	.	.	
LAST UPDT: 3/01/18 APPROVED: 2/14/97 FEE TYPE:1 \$70.00 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: 3/01/18 COMMENT:EMAIL PREQ CHG FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081																		
CHEM	152	GENERAL CHEMISTRY General Chemistry	WIN/2018 -	AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	Y	.	.	
LAST UPDT: 3/01/18 APPROVED: 2/14/97 FEE TYPE:1 \$70.00 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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COURSE CURRIC NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D -ALL U	D GRD E	S H F U N E	V L I	E E L C	W R	RESPONS COURSE	JOINT COURSES	O M I T
					MAX	P	SYS	D	HYPH	M R E	P & N A S W	T P R G	
CHEM 155	H-GENERAL CHEMISTRY Honors General Chemistry	AUT/2008 -	AUT/9999	5.0	.	.	.	.	Y	.	Y	Y	.
					LAST UPDT: 3/01/18								
COMMENT:CHG DESC PER 08-10 UPDATE					FEE TYPE:1	\$70.00 BUDGET:069318 REV OBJ CD:943081							
CHEM 162	GENERAL CHEMISTRY General Chemistry	AUT/2015 -	AUT/9999	5.0	.	.	.	.	Y	.	Y	Y	.
					LAST UPDT: 3/01/18 APPROVED: 2/14/97								
COMMENT:CHG DESC					FEE TYPE:1	\$70.00 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: 3/01/18 APPROVED: 2/23/96								
COMMENT:CHG DESC PER 08-10 UPDATE					FEE TYPE:1	\$70.00 BUDGET:069318 REV OBJ CD:943081							
CHEM 190	DISCOVERY SEMINAR Freshman Discovery Seminar in Chemistry	AUT/2018 -	AUT/9999	5.0	.	.	.	.	.	.	Y	.	.
					LAST UPDT: 8/16/18 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: 8/06/18 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: 3/01/18								
COMMENT:12-14 DESC, PREQ CHG					FEE TYPE:1	\$70.00 BUDGET:069318 REV OBJ CD:943081							

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CHEM 221	PRINCIPLES CHEM III Principles of Chemistry III	AUT/2012 -	AUT/9999	5.0	.	.	.	. . Y	. . Y		.			.
COMMENT:12-14 DESC CHG					LAST UPDT: 3/01/18 APPROVED: 4/28/94 FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081									
CHEM 223	ORG CHEM SHORT PROG Organic Chemistry - Short Program	SPR/2017 -	AUT/9999	4.0	.	.	.	. . .	. . Y		.			.
					LAST UPDT: 4/07/17 APPROVED:10/01/89									
CHEM 224	ORG CHEM SHORT PROG Organic Chemistry - Short Program	WIN/2002 -	AUT/9999	4.0	.	.	.	. . .	. . Y		.			.
COMMENT:CHANGE COURSE DESCRIPTOIN					LAST UPDT:10/26/04 APPROVED:10/01/89									
CHEM 237	ORGANIC CHEMISTRY Organic Chemistry	SPR/2017 -	AUT/9999	4.0	.	.	.	. . .	. . Y		.			.
					LAST UPDT: 2/10/17 APPROVED:10/27/89									
CHEM 238	ORGANIC CHEMISTRY Organic Chemistry	AUT/2016 -	AUT/9999	4.0	.	.	.	. . .	. . Y		.			.
					LAST UPDT: 7/18/16 APPROVED:10/27/89									
CHEM 239	ORGANIC CHEMISTRY Organic Chemistry	SPR/2017 -	AUT/9999	4.0	.	.	.	. . .	. . Y		.			.
					LAST UPDT:12/23/16 APPROVED:10/01/89									
CHEM 241	ORGANIC CHEM LAB Organic Chemistry Laboratory	AUT/2016 -	AUT/9999	3.0	.	.	.	. . Y	. . Y		.			.
					LAST UPDT: 3/01/18 APPROVED: 9/01/77 FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081									
CHEM 242	ORGANIC CHEM LAB Organic Chemistry Laboratory	AUT/2016 -	AUT/9999	3.0	.	.	.	. . Y	. . Y		.			.
					LAST UPDT: 3/01/18 FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081									
CHEM 291	STUDY ABROAD Study Abroad - Chemistry	SPR/2007 -	AUT/9999	1.0-15.0	15.0	.	.	. . .	. . Y		.			.
					LAST UPDT: 1/24/07 APPROVED: 1/24/07									
CHEM 296	INTRO CHEM RESEARCH RESEARCH IN CHEMISTRY, AN INTRODUCTION	SPR/2002 -	AUT/9999	1.0	.	CR/NC	.	. . .	. . Y		.			.
COMMENT:GENCAT PREREQ CHANGE					LAST UPDT: 2/14/02 APPROVED: 2/14/97									

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						-ALL	U											
						MAX	P	SYS	D	M R E	A	S	W	T	P	R	G	I
CHEM	297	SCI OUTREACH PARTIC Science Outreach Participation	WIN/2017	- AUT/9999	1.0-02.0	6.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 8/06/18 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	SUM/2018	- AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.
						LAST UPDT: 7/31/18 APPROVED:10/01/89												
CHEM	317	INORGANIC CHEM LAB Inorganic Chemistry Laboratory	WIN/2017	- AUT/9999	4.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.
						LAST UPDT: 3/01/18 APPROVED:10/01/89 FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081												
CHEM	321	QUANTITATIVE ANLYS Quantitative Analysis	AUT/2009	- AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.
						LAST UPDT: 3/01/18 APPROVED: 9/01/77 COMMENT:CHG PREQ FEE TYPE:1 \$70.00 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												
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: 3/01/18 APPROVED: 9/01/77 COMMENT:EMAIL PREREQ CHANGE FEE TYPE:1 \$70.00 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: 3/01/18 COMMENT:EMAIL PREQ CHG FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081												

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CHEM 397	SCI OUTREACH MENTOR Science Outreach Mentors	AUT/1998 -	AUT/9999	1.0-02.0	6.0	CR/NC	.	.	.	.	.	.	.	.
					LAST UPDT: 8/06/18 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	.	.	.	.
					LAST UPDT: 2/09/15 APPROVED:12/01/89 COMMENT:EMAIL PREQ CHG 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	.	.	.	.
					LAST UPDT: 1/16/02 COMMENT:GENCAT PREREQ CHANGE									
CHEM 416	TRANSITION METALS Transition Metals	SPR/2002 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT: 4/21/05 APPROVED: 6/01/85 COMMENT:GENCAT PREREQ CHANGE									
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	SUM/2018 -	WIN/2019	3.0	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT: 7/26/18 APPROVED: 5/01/81									
CHEM 418	NUCLEAR CHEMISTRY Nuclear Chemistry	SPR/2019 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT: 7/26/18 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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CHEM 426	INSTRUMENTAL ANALYSIS Instrumental Analysis	SPR/1992 -	AUT/9999	3.0	.	.	.	. . Y	. . Y		.			.
LAST UPDT: 3/01/18 APPROVED: 9/27/91 FEE TYPE:3 \$70.00 BUDGET:069318 REV OBJ CD:943081														
CHEM 428	BIOINSTRUMENTAL ANALYSIS Bioinstrumental Analysis	SPR/2009 -	WIN/2019	3.0	.	.	.	. . Y	. . Y		.			.
COMMENT:CHG PREQ LAST UPDT: 5/01/18 APPROVED:10/26/04 FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081														
CHEM 428	BIOINSTRUMENTAL ANALYSIS Bioinstrumental Analysis	SPR/2019 -	AUT/9999	3.0	.	.	.	. . Y	. . Y		.			.
LAST UPDT: 5/01/18 APPROVED:10/26/04 FEE TYPE:1 \$70.00 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		.			.
COMMENT:EMAIL PREQ CHG LAST UPDT: 7/09/09 APPROVED: 2/22/93														
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														

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CHEM 437	DNA & PROTEIN CHEM ORGANIC & BIOORGANIC CHEM NUCLEIC ACIDS IN PROTEIN	AUT/2009 - AUT/9999	3.0		.	.	.	.	.	Y	.			.
COMMENT:EMAIL PREQ CHG					LAST UPDT: 7/09/09 APPROVED: 2/28/92									
CHEM 452	PHYS CHEM BIO C I Physical Chemistry for Biochemists I	AUT/2014 - AUT/9999	3.0		.	.	.	.	.	Y	.			.
COMMENT:14-16 DESC CHG					LAST UPDT: 7/23/14 APPROVED:11/01/88									
CHEM 453	PHYS CHEM BIO C II Physical Chemistry for Biochemists II	WIN/2000 - AUT/9999	3.0		.	.	.	.	.	Y	.			.
LAST UPDT:10/26/04 APPROVED: 6/21/99														
CHEM 454	BIOMOLE SPECTROSCOPY Introduction to Biomolecular Spectroscopy	SPR/2017 - AUT/9999	3.0		.	.	.	.	.	Y	.			.
LAST UPDT: 4/20/17 APPROVED: 9/02/16														
CHEM 455	PHYSICAL CHEMISTRY Physical Chemistry	AUT/2012 - AUT/9999	3.0		.	.	.	.	.	Y	.			.
COMMENT:12-14 PREQ CHG					LAST UPDT: 7/31/12									
CHEM 456	PHYSICAL CHEMISTRY Physical Chemistry	AUT/2012 - AUT/9999	3.0		.	.	.	.	.	Y	.			.
COMMENT:12-14 PREQ CHG					LAST UPDT: 7/31/12 APPROVED: 9/01/86									
CHEM 457	PHYSICAL CHEMISTRY Physical Chemistry	AUT/2014 - AUT/9999	3.0		.	.	.	.	.	Y	.			.
COMMENT:EMAIL PREQ CHG					LAST UPDT: 9/02/14 APPROVED: 6/01/71									
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					LAST UPDT: 2/11/14									
CHEM 460	SPECT MOLEC IDENT Spectroscopic Molecular Identification	AUT/2016 - AUT/9999	3.0		.	.	.	.	.	Y	.			.
LAST UPDT: 7/18/16 APPROVED:12/01/83														

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CHEM 461	PHYS CHEM LAB Physical Chemistry Laboratory	SPR/2007	- AUT/9999	3.0	.	.	.	. . Y	. . Y		.			.
					LAST UPDT: 3/01/18 APPROVED: 7/01/71 FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081									
CHEM 462	SYNTH ORGANIC TECH Techniques of Synthetic Organic Chemistry	AUT/2016	- AUT/9999	2.0-03.0	3.0	.	.	. . Y	. . Y		.			.
					LAST UPDT: 3/01/18 FEE TYPE:1 \$70.00 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: 3/01/18 APPROVED:12/01/83 FEE TYPE:1 \$70.00 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: 3/01/18 APPROVED: 9/27/91 FEE TYPE:1 \$70.00 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									

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COURSE		TITLE		EFFECTIVE QUARTERS		QUARTER	OVER D		D		S H F		L I E C Q T		P & N C M S N		RESPONS	JOINT	M	I								
CURRIC	NUM					CREDITS	MAX	U P	GRD	E	HY	M	R	E	A	S	W	T	P	R	G	COURSE	COURSES					
CHEM	484	ELECT & OPTO POLYMERS	AUT/2015 - AUT/9999	3.0																		CHEM	484	MSE	484			
		Electronic and Optoelectronic Polymers																										
							LAST UPDT:		12/17/15		APPROVED: 2/24/06																	
CHEM	485	ELEC STRUCT MATERLS	WIN/2015 - AUT/9999	3.0																								
		Electronic Structure and Application of Materials																										
							LAST UPDT:		9/17/14		APPROVED: 9/16/14																	
CHEM	486	ELEC DYN ORG INORG	WIN/2015 - AUT/9999	3.0																								
		Electronic Dynamics in Organic and Inorganic Materials																										
							LAST UPDT:		9/17/14		APPROVED: 9/16/14																	
CHEM	491	ADV STUDY ABROAD	SPR/2007 - AUT/9999	1.0-15.0	15.0																							
		Study Abroad - Advanced Chemistry																										
							LAST UPDT:		1/24/07		APPROVED: 1/24/07																	
CHEM	496	UG RES SEMINAR	WIN/2004 - AUT/9999	1.0																		CHEM	496	BIOC	496			
		RESEARCH SEMINAR FOR UNDERGRADUATES																										
							LAST UPDT:		10/27/03		APPROVED: 6/21/99																	
		COMMENT:EMAIL PREREQ CHANGE																										
CHEM	498	TEACHING CHEMISTRY	WIN/1992 - AUT/9999	3.0																								
		Teaching Chemistry																										
							LAST UPDT:		7/23/14		APPROVED: 9/27/91																	
CHEM	499	UG RES/REPORT WRTG	AUT/1985 - AUT/9999	0.0																								
		Undergraduate Research and Report Writing																										
							LAST UPDT:		4/11/94																			
CHEM	500	GRNT PRPS & SCI WRT	AUT/2013 - AUT/9999	1.0																								
		Grant Proposal and Scientific Writing																										
							LAST UPDT:		9/17/13		APPROVED: 9/17/13																	
CHEM	501	READINGS IN CHEM	WIN/1997 - AUT/9999	1.0																								
		Readings in Chemistry																										
							LAST UPDT:		1/15/97		APPROVED: 12/31/96																	
CHEM	502	PRACTICAL NMR	WIN/1991 - AUT/9999	4.0																								

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CHEM 510	CRNT PRBS INOR CHEM Current Problems in Inorganic Chemistry	WIN/2006 - AUT/9999		3.0	9.0 Y	.	.	.	.	.	.			.
COMMENT:CHANGE CREDITS					LAST UPDT: 8/18/05 APPROVED:12/01/87									
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	.	.	.	.	.	.			.
COMMENT:CHANGE CREDITS					LAST UPDT: 8/18/05									
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	.	.	.	.	.	.	.	OCEAN 523 ATM S 508		.
COMMENT:MOVE JT COLLEGE					LAST UPDT: 3/22/16 APPROVED:12/20/99 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									

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CHEM 529	SEPARATION TECHS Chemical Separation Techniques	SPR/2012	- AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT:11/15/11 APPROVED:11/15/11															
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: 8/06/18															
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

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CHEM 552	STATISTCL MECHANICS Statistical Mechanics	WIN/1969 - AUT/9999		3.0	.	.	.	.	.	.	.			.
LAST UPDT: 3/03/10														
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	COMPUTATIONAL CHEM Computational Chemistry	WIN/2018 - AUT/9999		3.0	.	.	.	.	.	.	.			.
LAST UPDT: 1/24/18 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														

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COURSE					OVER D	D	S H F									
CURRIC	NUM	TITLE	EFFECTIVE	QUARTER	-ALL U	GRD	U N E	M R E	A S	P & N	C M S	Q T	R G	RESPONS	JOINT	
			QUARTERS	CREDITS	MAX	P	SYS	D	HYPH					COURSE	COURSES	
CHEM	571	RESEARCH INORGANIC Current Research Topics in Inorganic Chemistry	SPR/2018 - AUT/9999	1.0	18.0	.	CR/NC	.	.	.	.	.	.			.
					LAST UPDT: 2/21/18		APPROVED: 1/23/18									
CHEM	573	ORGANIC/BIOLOGICAL RESRCH Current Research Topics in Organic and Biological Chemistry	AUT/2018 - AUT/9999	1.0	18.0	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/20/18		APPROVED: 9/18/18									
CHEM	574	SPECTROSCOPY RESERCH Current Research Topics in Spectroscopy	AUT/2018 - AUT/9999	1.0	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/20/18		APPROVED: 9/18/18									
CHEM	575	RESEARCH COMPUTATION Current Research Topics in Theoretical and Computational Chemistry	AUT/2018 - AUT/9999	1.0	18.0	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/20/18		APPROVED: 9/18/18									
CHEM	578	RESRCH MATERIAL CHEM Current Research Topics in Materials Chemistry	SPR/2018 - AUT/9999	1.0	18.0	.	CR/NC	.	.	.	.	.	.			.
					LAST UPDT: 3/21/18		APPROVED: 3/20/18									
CHEM	581	PREP 2ND YEAR EXAM Preparation for Second-Year Exam	AUT/2006 - AUT/9999	3.0	9.0	Y	CR/NC	.	11	.	.	.	.			.
		COMMENT:CHG TTLS, CREDITS, DESCRIPTION			LAST UPDT:11/12/09		APPROVED:10/05/92									
CHEM	584	ELECT &OPTO POLYMERS Electronic and Optoelectronic Polymers	WIN/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.			.
					LAST UPDT:10/21/15		APPROVED:10/20/15									
CHEM	585	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									
CHEM	586	ELEC DYN ORG INORG Electronic Dynamics in Organic and Inorganic Materials	WIN/2015 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.			.
					LAST UPDT: 2/23/15		APPROVED: 9/16/14									
CHEM	587	NANOMAT CHEM ENGR Nanomaterials Chemistry and Engineering	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	CHEM E535	CHEM E535	.
					LAST UPDT: 4/19/18		APPROVED: 4/17/18									
CHEM	590	SMNR GENERAL CHEM Seminar in General Chemistry	AUT/1967 - AUT/9999	1.0	18.0	Y	CR/NC	.	.	.	.	.	.			.
					LAST UPDT: 3/03/10											

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CHEM 591	SMNR INORGANIC CHEM Seminar in Inorganic Chemistry	WIN/1970	- AUT/9999	1.0	18.0 Y	CR/NC	.	.	.	.	.	.	.	.
LAST UPDT: 0/00/00														
CHEM 592	SMNR ANALYTCL CHEM Seminar in Analytical Chemistry	AUT/1968	- AUT/9999	1.0	18.0 Y	CR/NC	.	.	.	.	.	.	.	.
LAST UPDT:11/20/17														
CHEM 593	SMNR ORGANIC CHEM Seminar in Organic Chemistry	AUT/1969	- AUT/9999	1.0	18.0 Y	CR/NC	.	.	.	.	.	.	.	.
LAST UPDT: 1/26/09														
CHEM 595	SMNR PHYSICAL CHEM Seminar in Physical Chemistry	AUT/1967	- AUT/9999	1.0	18.0 Y	CR/NC	.	.	.	.	.	.	.	.
LAST UPDT:11/12/14														
CHEM 596	SMNR BIOTECHNOLOGY SEMINAR IN BIOTECHNOLOGY	AUT/1996	- AUT/9999	1.0	6.0	.	.	.	.	.	.	.	.	.
LAST UPDT:10/10/96 APPROVED: 6/20/94														
COMMENT:REPL CHEM 571;CHNG DESCRIPT														
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														