

DATE: 04-15-2019
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DETAILED CURRICULUM REPORT
Seattle CAMPUS

REPORT: SR21010-R-01 K
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DEPARTMENT: CHEMISTRY

COURSE CURRIC NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D -ALL U MAX P	D GRD SYS	D E HYPH	S H F U N E M R E	V L I P & N A S W	E E L C M T P R	W R Q T S N G	RESPONS COURSE	JOINT COURSES	O M I T
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	GRD SYS	D E	S H F U N E	V L I	E E L C	W R Q T	RESPONS COURSE	JOINT COURSES	O M I T
					MAX	P	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									
					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									
					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									
					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									
					FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081									
					COMMENT:12-14 DESC, PREQ CHG									

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COURSE CURRIC NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D -ALL U MAX P	D GRD SYS	D E HYPH	S H F U N E M R E	V L I P & N A S W	E E L C M T P R	W Q T S N G	RESPONS COURSE	JOINT COURSES	O M I T
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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CURRIC	COURSE NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D		GRD	D	S H F		V		E E		W	O							
						-ALL	U			E	U	N	E	L	I			E	C	Q	T			
						MAX	P	SYS	D	HYPH	M	R	E	P	N	C	M	S	N	R	I	T		
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	SPR/2019	- AUT/9999	5.0	.	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.	.	.		
						LAST UPDT:11/20/18		APPROVED: 9/01/77																
						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																
						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: 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		APPROVED: 9/01/77																
						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/2019	3.0	.	.	.	.	.	Y	.	.	.	.
LAST UPDT: 1/28/19 APPROVED:12/01/87														
CHEM 417	ORGANOMETALLIC CHEM Organometallic Chemistry	WIN/2020 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.
LAST UPDT: 1/28/19 APPROVED:12/01/87														
CHEM 418	NUCLEAR CHEMISTRY Nuclear Chemistry	SPR/2019 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.
LAST UPDT:11/15/18 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 ANLYS 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	BIOINSTRUMENT ANLYS 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 COMMENT:EMAIL PREQ CHG	AUT/2009 -	AUT/9999	3.0	.	.	.	. . .	.	. . Y		.	.	.
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														
CHEM 437	DNA & PROTEIN CHEM ORGANIC & BIOORGANIC CHEM NUCLEIC ACIDS IN PROTEIN COMMENT:EMAIL PREQ CHG	AUT/2009 -	AUT/9999	3.0	.	.	.	. . .	.	. . Y		.	.	.
LAST UPDT: 7/09/09 APPROVED: 2/28/92														

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COURSE					OVER D	D	S H F			L I	E C Q	T				
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					CREDITS	MAX	P	SYS	D		A	S	W	T	P	R
CHEM	452	PHYS CHEM BIOC 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 BIOC II Physical Chemistry for Biochemists II	WIN/2000 -	AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.	.
COMMENT:14-16 DESC CHG					LAST UPDT:10/26/04 APPROVED: 6/21/99											
CHEM	454	BIOMOLE SPECTROSCPY Introduction to Biomolecular Spectroscopy	SPR/2017 -	AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.	.
COMMENT:14-16 DESC CHG					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	.	.	.	.
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	.	.	.	.
COMMENT:14-16 DESC CHG					LAST UPDT: 7/18/16 APPROVED:12/01/83											
CHEM	461	PHYS CHEM LAB Physical Chemistry Laboratory	SPR/2007 -	AUT/9999	3.0	.	.	.	.	Y	.	Y	.	.	.	.
COMMENT:CHG CREDITS, PREQ					LAST UPDT: 3/01/18 APPROVED: 7/01/71											
FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081																

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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 ANALYS Computers in Data Acquisition and Analysis	SPR/2002 - AUT/9999	3.0	.	.	.	.	. . Y	. . Y		.			.
LAST UPDT: 3/01/18 APPROVED: 9/27/91														
COMMENT:GENCAT PREREQ CHANGE 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														
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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COURSE CURRIC NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D -ALL U MAX P	D GRD SYS	D E HYPH	S H F U N E M R E	V L I P & N A S W	E E L E C M S N	W Q T P R G	RESPONS COURSE	JOINT COURSES	O M I T	
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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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	.	.	.	.	.	.	.	OCEAN 523	ATM S 508	.
					LAST UPDT: 3/22/16		APPROVED:12/20/99		OCEAN 523					
COMMENT:MOVE JT COLLEGE														
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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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/2019 -	AUT/9999	3.0	.	.	.	.	.	.	.	CHEM E545 MSE	545	.
LAST UPDT:12/19/18 APPROVED: 4/18/17														
CHEM 546	SW ENGR MOL DATA SCI Software Engineering for Molecular Data Scientists	WIN/2019 -	AUT/9999	3.0	.	.	.	.	.	.	.	CHEM E546 MSE	546	.
LAST UPDT:12/19/18 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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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															
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															

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COURSE CURRIC NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D -ALL U MAX P	D GRD SYS	D E HYPH	S H F U N E M R E	V L I P & A	E L N C W	E C M S	W R T P R G	RESPONS COURSE	JOINT COURSES	O M I T		
CHEM 573	ORGANIC/BIOLOGICAL RESEARCH 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 RESEARCH 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	RESEARCH 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												
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												

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COURSE		TITLE		EFFECTIVE QUARTERS		QUARTER	OVER D	D	S H F	L I	E E	W	RESPONS		JOINT		M			
CURRIC	NUM					CREDITS	-ALL U	GRD	D	U N E	P & N	C M S	Q T	COURSE	COURSES	I	T			
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																				