

DATE: 10-09-2017
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UNIVERSITY OF WASHINGTON STUDENT RECORDS SYSTEM
DETAILED CURRICULUM REPORT
Seattle CAMPUS

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COLLEGE : C - Arts & Sciences
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 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: 3/31/17														
FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081														
CHEM 142	GENERAL CHEMISTRY General Chemistry	AUT/2015 -	AUT/9999	5.0	.	.	.	.	Y	.	Y	.	Y	.
LAST UPDT: 5/05/16 APPROVED: 2/14/97														
COMMENT:CHG DESC 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	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 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: 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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COURSE CURRIC NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D -ALL U MAX P	GRD SYS	D E D 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 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: 2/09/15 APPROVED: 4/28/94 FEE TYPE:1 \$65.00 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: 7/18/16 APPROVED: 9/01/77 FEE TYPE:1 \$65.00 BUDGET:069318 REV OBJ CD:943081									
CHEM 242	ORGANIC CHEM LAB Organic Chemistry Laboratory	AUT/2016 -	AUT/9999	3.0	.	.	.	. . Y	. . Y		.			.
					LAST UPDT: 7/18/16 FEE TYPE:1 \$65.00 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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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			
							MAX	P	SYS	D	HYPH	M R E	A S W T P R G				T			
CHEM	297	SCI OUTREACH PARTIC	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	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	AUT/2016 - AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.	.	.	.			
LAST UPDT: 7/18/16 APPROVED:10/01/89																				
CHEM	317	INORGANIC CHEM LAB	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	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	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	WIN/1986 - AUT/9999	4.0	.	.	.	.	.	Y	.	.	.	.	.	.	.			
LAST UPDT:10/26/04 APPROVED: 2/01/71																				
CHEM	337	H-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	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	WIN/2015 - AUT/9999	3.0	.	.	.	Y	.	Y	.	.	.	.	.	.	.			
LAST UPDT: 2/09/15																				
COMMENT:EMAIL PREQ CHG FEE TYPE:1 \$65.00 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: 8/25/16 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	.	.	.	.
					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	WIN/2016 -	SPR/2018	3.0	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT: 3/23/16 APPROVED: 5/01/81									
CHEM 418	NUCLEAR CHEMISTRY Nuclear Chemistry	SUM/2018 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT: 9/17/15 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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COURSE CURRIC NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D -ALL U MAX P	GRD SYS	D E D 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 S N G	RESPONS COURSE	JOINT COURSES	O M I 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 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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CHEM 452	PHYS CHEM BIOCI 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 BIOCI Physical Chemistry for Biochemists II	WIN/2000 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.
LAST UPDT:10/26/04 APPROVED: 6/21/99														
CHEM 454	BIOMOLE SPECTROSCPY 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	.	.	.	.
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														
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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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 Computations in Chemistry	WIN/2003 - AUT/2017	3.0	.	.	.	.	. . Y	. . Y		.			.
LAST UPDT: 9/22/17 APPROVED: 2/28/94														
COMMENT:EMAIL PREREQ CHG 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														

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

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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 ANALYT 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: 7/11/14															
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															
CHEM 553	STATISTCL MECHANICS Statistical Mechanics	SPR/1969	- AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 3/03/10															

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COURSE CURRIC NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	D U P	D GRD SYS	D E HYPH	S H F U N E M R E	L I P A	E E C M S T N	R Q P G	RESPONS COURSE	JOINT COURSES					
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 581	PREP 2ND YEAR EXAM Preparation for Second-Year Exam	AUT/2006 - AUT/9999	3.0	9.0 Y CR/NC	. 11	.	.	.	.	.	.						.	
				LAST UPDT:11/12/09				APPROVED:10/05/92										
COMMENT:CHG TTLS, CREDITS, DESCRIPTION																		
CHEM 584	ELECT &OPTO POLYMERS Electronic and Optoelectronic Polymers	WIN/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.						.	
				LAST UPDT:10/21/15				APPROVED:10/20/15										

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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 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									
CHEM 592	SMNR ANALYTCL CHEM Seminar in Analytical Chemistry	AUT/1972 - AUT/9999	1.0	18.0 Y	CR/NC	.	.	.	.	.	.	.	.
				LAST UPDT: 0/00/00									
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	.	.	.	.	.	.	.	.	.
COMMENT: REPL CHEM 571; CHNG DESCRIPT				LAST UPDT: 10/10/96		APPROVED: 6/20/94							
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							

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						-ALL	U											E
						MAX	P	SYS	D	HYPH	M	R	E	A S W	T P R G	COURSE	COURSES	T
CHEM	800	DOCTORAL DISSERTATN Doctoral Dissertation	AUT/1970 -	AUT/9999	0.0	999.0	.	.	11	.	.	.	.	.	.	.	.	.

LAST UPDT: 4/19/10 APPROVED: 1/01/70