

DATE: 07-08-2019
 TIME: 20:10:04

UNIVERSITY OF WASHINGTON STUDENT RECORDS SYSTEM
 DETAILED CURRICULUM REPORT
 Seattle CAMPUS

REPORT: SR21010-R-01 K
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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 R G							
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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				-ALL	U		GRD	E	U	N	E	P	& N	C			
CHEM 220	PRINCIPLES CHEM II Principles of Chemistry II	AUT/2019 - AUT/9999	5.0	Y	.	.	Y
				LAST UPDT: 6/13/19 FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081													
CHEM 221	PRINCIPLES CHEM III Principles of Chemistry III	AUT/2012 - SUM/2019	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.
				COMMENT:12-14 DESC CHG LAST UPDT: 6/13/19 APPROVED: 4/28/94 FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081													
CHEM 221	PRINCIPLES CHEM III Principles of Chemistry III	AUT/2019 - AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 6/13/19 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 - SUM/2019	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 6/13/19 APPROVED:10/01/89													
CHEM 223	ORG CHEM SHORT PROG Organic Chemistry - Short Program	AUT/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 6/13/19 APPROVED:10/01/89													
CHEM 224	ORG CHEM SHORT PROG Organic Chemistry - Short Program	WIN/2002 - SUM/2019	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				COMMENT:CHANGE COURSE DESCRIPTOIN LAST UPDT: 6/13/19 APPROVED:10/01/89													
CHEM 224	ORG CHEM SHORT PROG Organic Chemistry - Short Program	AUT/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 6/13/19 APPROVED:10/01/89													
CHEM 237	ORGANIC CHEMISTRY Organic Chemistry	SPR/2017 - SUM/2019	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 6/13/19 APPROVED:10/27/89													
CHEM 237	ORGANIC CHEMISTRY Organic Chemistry	AUT/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 6/13/19 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													

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				-ALL	U		GRD	E	U	N	E	P	N	C			
CHEM 239	ORGANIC CHEMISTRY Organic Chemistry	SPR/2017 - SUM/2019	4.0	Y
				LAST UPDT: 6/13/19 APPROVED:10/01/89													
CHEM 239	ORGANIC CHEMISTRY Organic Chemistry	AUT/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 6/13/19 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	.	.	.	.	.	.
				LAST UPDT: 2/14/02 APPROVED: 2/14/97													
				COMMENT:GENCAT PREREQ CHANGE													
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													

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						-ALL	U		GRD	E	U	N	E	P	&	N				C	M
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	- SUM/2019	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.
						LAST UPDT: 6/13/19 APPROVED: 2/01/71															.
						COMMENT:12-14 PREQ CHG															.
CHEM	335	H-ORGANIC CHEMISTRY Honors Organic Chemistry	AUT/2019	- AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.
						LAST UPDT: 6/13/19 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	- SUM/2019	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.
						LAST UPDT: 6/13/19 APPROVED: 2/01/71															.
						COMMENT:CHG DESCRIPTION															.
CHEM	337	H-ORGANIC CHEMISTRY Honors Organic Chemistry	AUT/2019	- AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.
						LAST UPDT: 6/13/19 APPROVED: 2/01/71															.
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															.
						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															.
						FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081															.
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															.

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				-ALL U	GRD		U N E	P	N	C	M	S	N				
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/2019	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
COMMENT:GENCAT PREREQ CHANGE				LAST UPDT: 1/28/19 APPROVED:12/01/87													
CHEM 417	ORGANOMETALLIC CHEM Organometallic Chemistry	WIN/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
COMMENT:GENCAT PREREQ CHANGE				LAST UPDT: 1/28/19 APPROVED:12/01/87													
CHEM 418	NUCLEAR CHEMISTRY Nuclear Chemistry	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
COMMENT:GENCAT PREREQ CHANGE				LAST UPDT:11/15/18 APPROVED: 5/01/81													
CHEM 419	BIOINORGANIC CHEM Bioinorganic Chemistry	AUT/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
COMMENT:GENCAT PREREQ CHANGE				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	.	.	.	.	.	.
COMMENT:GENCAT PREREQ CHANGE				LAST UPDT:12/23/16 APPROVED: 9/20/16													
CHEM 426	INSTRUMENTAL ANLYS Instrumental Analysis	SPR/1992 - AUT/9999	3.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.
COMMENT:GENCAT PREREQ CHANGE				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	.	.	.	.	.	.
COMMENT:GENCAT PREREQ CHANGE				LAST UPDT: 5/01/18 APPROVED:10/26/04 FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081													

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				-ALL	U		GRD	E	U	N	E	P	&	N			
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													
CHEM 452	PHYS CHEM BIOC I Physical Chemistry for Biochemists I	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 7/23/14		APPROVED: 11/01/88											
				COMMENT:14-16 DESC CHG													
CHEM 453	PHYS CHEM BIOC II Physical Chemistry for Biochemists II	WIN/2000 - AUT/9999	3.0	Y
				LAST UPDT: 10/26/04		APPROVED: 6/21/99											

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				-ALL	U	GRD	E	U	N	E	P	&	N	C	M				S
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
	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	.	.	.	.	.
	COMMENT:CHG CREDITS, PREQ			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	.	.	.	.	.
				LAST UPDT: 3/01/18		APPROVED: 7/01/71		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	.	.	.	.	.
				LAST UPDT: 3/01/18		APPROVED:12/01/83		FEE TYPE:1 \$70.00 BUDGET:069318 REV OBJ CD:943081											

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				-ALL U	GRD E		U N E	P & N C M S N	A S W T P R G	COURSE	COURSES	T					
CHEM 464	COMPUTER DATA ANLYS Computers in Data Acquisition and Analysis	SPR/2002 - AUT/9999	3.0	Y	.	.	Y
		COMMENT:GENCAT PREREQ CHANGE		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	.	.	.	.	.	.	.
		COMMENT:12-14 PREQ CHG		LAST UPDT: 7/31/12		APPROVED: 2/25/00											
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											
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											

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						-ALL	U	GRD	E	U	N	E	P	&	N	C	M				S	N	P	C	M	S	N	A	S	W	T	P
CHEM	496	UG RES SEMINAR RESEARCH SEMINAR FOR UNDERGRADUATES	WIN/2004 - AUT/9999		1.0	2.0	.	CR/NC	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	
						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	
						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																										
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																										

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 Seattle CAMPUS

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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		E	U N E	P & N	C M S N	A S W T P R G						
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 547	DATA SCI CAPSTONE Data Science Capstone Project	AUT/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	CHEM E547 MSE	547	.	.
				LAST UPDT: 6/06/19		APPROVED: 1/22/19											
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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				-ALL	U		GRD	E	U	N	E	P	& N C M S N			
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										
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										
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										
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										

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				-ALL U	GRD		U	GRD	E		U	N	E			
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	.	.	.	.	.	.	.	.
				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										
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												
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												

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				-ALL	U		GRD	E	U	N	E	P	&	N			
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													