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 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	E	U	N	E	P	& N	C				M	S	N
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	.	.	.	.	.	.
				COMMENT:CHG DESC PER 08-10 UPDATE LAST UPDT: 4/28/11 APPROVED: 2/23/96 FEE TYPE:1 \$60.00 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 197	SCI OUTREACH TRAIN SCIENCE OUTREACH TRAINING	SPR/1997 - AUT/9999	1.0-02.0	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/31/96 APPROVED: 9/27/93													
CHEM 198	TUTORIAL STUDY TUTORIAL STUDY	AUT/2005 - AUT/9999	2.0	6.0	Y	CR/NC	.	.	.	.	Y	.	.	.	.	.	.
				COMMENT:CHANGE CREDITS LAST UPDT:10/27/05													
CHEM 199	SPECIAL PROBLEMS SPECIAL PROBLEMS	SPR/1995 - AUT/9999	1.0-06.0	6.0	Y	CR/NC	.	.	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 7/22/04 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	.	.	.	.	.	.
				COMMENT:12-14 DESC, PREQ CHG LAST UPDT: 7/31/12 FEE TYPE:1 \$60.00 BUDGET:069318 REV OBJ CD:943081													
CHEM 221	PRINCIPLES CHEM III PRINCIPLES OF CHEMISTRY III	AUT/2012 - AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.
				COMMENT:12-14 DESC CHG LAST UPDT: 7/31/12 APPROVED: 4/28/94 FEE TYPE:1 \$60.00 BUDGET:069318 REV OBJ CD:943081													
CHEM 223	ORG CHEM SHORT PROG ORGANIC CHEMISTRY - SHORT PROGRAM	AUT/2012 - AUT/9999	4.0	Y
				COMMENT:12-14 PREQ CHG LAST UPDT: 7/31/12 APPROVED:10/01/89													

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				-ALL U	GRD		U N E	P & N	C M S N	A S W T P R G	P	S	D	H			
CHEM 299	SPEC PROBS/RPT WRTG SPECIAL PROBLEMS AND REPORT WRITING	SPR/1995 - AUT/9999	1.0-06.0	6.0	Y	CR/NC	Y	.	
				LAST UPDT: 8/17/06		APPROVED: 9/20/84											
CHEM 312	INORGANIC CHEMISTRY INORGANIC CHEMISTRY	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	Y	.	.
				LAST UPDT: 7/31/12		APPROVED: 10/01/89											
				COMMENT: 12-14 PREQ CHG													
CHEM 317	INORGANIC CHEM LAB INORGANIC CHEMISTRY LABORATORY	AUT/2002 - AUT/9999	4.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.
				LAST UPDT: 4/28/11		APPROVED: 10/01/89											
				FEE TYPE: 1		\$60.00		BUDGET: 069318		REV OBJ CD: 943081							
CHEM 321	QUANTITATIVE ANLYS QUANTITATIVE ANALYSIS	AUT/2009 - AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.
				LAST UPDT: 4/28/11		APPROVED: 9/01/77											
				FEE TYPE: 1		\$60.00		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	SPR/2006 - AUT/9999	3.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.
				LAST UPDT: 4/28/11		APPROVED: 9/01/77											
				FEE TYPE: 1		\$60.00		BUDGET: 069318		REV OBJ CD: 943081							
CHEM 347	H-ORG&QUAL ORGN LAB ORGANIC AND QUALITATIVE ORGANIC HONORS LABORATORY	SPR/1976 - AUT/9999	3.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.
				LAST UPDT: 4/28/11		APPROVED: 9/01/77											
				FEE TYPE: 1		\$60.00		BUDGET: 069318		REV OBJ CD: 943081							
				COMMENT: CHG CREDITS													

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						-ALL U	GRD							
						MAX	P	SYS	D HYPH	M R E	A S W T P R G			I
														T
CHEM	426	INSTRUMENTAL ANLYS INSTRUMENTAL ANALYSIS	SPR/1992 -	AUT/9999	3.0	.	.	.	Y	.	Y	.	.	.
						LAST UPDT: 4/28/11 APPROVED: 9/27/91 FEE TYPE:1 \$60.00 BUDGET:069318 REV OBJ CD:943081								
CHEM	428	BIOINSTRUMENT ANLYS BIOINSTRUMENTAL ANALYSIS	SPR/2009 -	AUT/9999	3.0	.	.	.	Y	.	Y	.	.	.
						LAST UPDT: 4/28/11 APPROVED:10/26/04 COMMENT:CHG PREQ FEE TYPE:1 \$60.00 BUDGET:069318 REV OBJ CD:943081								
CHEM	429	SEPARATION TECHS CHEMICAL SEPARATION TECHNIQUES	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	.
						LAST UPDT: 7/09/09 APPROVED: 2/01/84 COMMENT:EMAIL PREQ CHG								
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	436	MOLECULAR ENZYMOLOGY MOLECULAR ENZYMOLOGY	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	.
						LAST UPDT: 7/09/09 APPROVED: 2/28/94 COMMENT:EMAIL PREQ CHG								
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/2012 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	.
						LAST UPDT: 7/31/12 APPROVED:11/01/88 COMMENT:12-14 PREQ 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								
CHEM	455	PHYSICAL CHEMISTRY PHYSICAL CHEMISTRY	AUT/2012 -	AUT/9999	3.0	Y	.	.	.
						LAST UPDT: 7/31/12 COMMENT:12-14 PREQ CHG								

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						-ALL	U		GRD	E	U	N	E	P	&	N				C	M
						MAX	P	SYS	D	HYPH	M	R	E	A	S	W	T	P	R	G	T
CHEM	456	PHYSICAL CHEMISTRY PHYSICAL CHEMISTRY	AUT/2012 -	AUT/9999	3.0	Y
						LAST UPDT: 7/31/12		APPROVED: 9/01/86													
COMMENT:12-14 PREQ CHG																					
CHEM	457	PHYSICAL CHEMISTRY PHYSICAL CHEMISTRY	WIN/1967 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.
						LAST UPDT: 5/04/10		APPROVED: 6/01/71													
CHEM	458	AIR POLLUTION CHEM GLOBAL ATMOSPHERIC CHEMISTRY	AUT/2012 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	ATM S 458 ATM S 458
						LAST UPDT: 7/03/12															
COMMENT:CHG TITLES, PREQ, DESC																					
CHEM	460	SPECT MOLEC IDENT SPECTROSCOPIC MOLECULAR IDENTIFICATION	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.
						LAST UPDT: 7/09/09		APPROVED:12/01/83													
COMMENT:EMAIL PREQ CHG																					
CHEM	461	PHYS CHEM LAB PHYSICAL CHEMISTRY LABORATORY	SPR/2007 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.	.
						LAST UPDT: 4/28/11		APPROVED: 7/01/71													
COMMENT:CHG CREDITS, PREQ						FEE TYPE:1		\$60.00		BUDGET:069318		REV OBJ CD:943081									
CHEM	462	SYNTH ORGANIC TECH TECHNIQUES OF SYNTHETIC ORGANIC CHEMISTRY	AUT/2000 -	AUT/9999	2.0-03.0	3.0	.	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.
						LAST UPDT: 4/28/11		APPROVED:12/01/83													
COMMENT:EMAIL PREREQ CHANGE						FEE TYPE:1		\$60.00		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: 4/28/11		APPROVED:12/01/83													
COMMENT:EMAIL PREREQ CHANGE						FEE TYPE:1		\$60.00		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: 4/28/11		APPROVED: 9/27/91													
COMMENT:GENCAT PREREQ CHANGE						FEE TYPE:1		\$60.00		BUDGET:069318		REV OBJ CD:943081									
CHEM	465	COMPUTATIONAL CHEM COMPUTATIONS IN CHEMISTRY	WIN/2003 -	AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.
						LAST UPDT: 4/28/11		APPROVED: 2/28/94													
COMMENT:EMAIL PREREQ CHG						FEE TYPE:1		\$60.00		BUDGET:069318		REV OBJ CD:943081									

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				-ALL	U		GRD	E	U	N	E	P	&	N			
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	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHANGE CREDITS			LAST UPDT: 8/18/05		APPROVED:12/01/87											
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: 0/00/00		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	OCEAN 523	.
	COMMENT:MOVE JT COLLEGE			LAST UPDT: 2/10/10		APPROVED:12/20/99		ATM S		508							
CHEM 525	PROCESS ANALYSIS PROCESS ANALYTICAL CHEMISTRY	SPR/1986 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/17/06		APPROVED:12/19/85											
CHEM 526	CHEMOMETRICS CHEMOMETRICS	AUT/1986 - AUT/9999	3.0	9.0	Y	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/17/06													
CHEM 529	SEPARATION TECHS CHEMICAL SEPARATION TECHNIQUES	SPR/2012 - AUT/9999	3.0
				LAST UPDT:11/15/11		APPROVED:11/15/11											

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						-ALL	U		GRD	E	U	N	E	P	&	N				C
CHEM	530	ADV ORGANIC CHEM ADVANCED ORGANIC CHEMISTRY	AUT/1964 -	AUT/9999	3.0	
						LAST UPDT: 0/00/00		APPROVED: 2/01/80												
CHEM	531	ADV ORGANIC CHEM ADVANCED ORGANIC CHEMISTRY	SUM/1999 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 2/23/99		COMMENT:CHANGE DESCRIPTION												
CHEM	532	ADV ORGANIC CHEM ADVANCED ORGANIC CHEMISTRY	SUM/1999 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 2/23/99		APPROVED: 2/01/80												
						COMMENT:CHANGE DESCRIPTION														
CHEM	540	CUR PROBS ORGN CHEM CURRENT PROBLEMS IN ORGANIC CHEMISTRY	SPR/1997 -	AUT/9999	1.0-03.0	12.0	Y	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 1/09/97														
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/1969 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 3/03/10														
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	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												

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				-ALL	U		GRD	E	U	N	E	P	&	N			
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	SPR/2005 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	MSE	560	MSE	560
				LAST UPDT: 8/24/04		APPROVED: 8/20/04											
CHEM 565	COMPUTATION IN CHEM COMPUTATIONS IN CHEMISTRY	WIN/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/21/11		APPROVED: 9/20/11											
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 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: 3/03/10													
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																

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					-ALL	U		GRD	E	U	N	E	P	&	N			
CHEM 597	NANOTECH SEMINAR NANOTECHNOLOGY SEMINAR	AUT/2006 -	AUT/9999	1.0	18.0	.	CR/NC	CHEM 597	BIOEN 518	.
					LAST UPDT: 9/21/06 APPROVED: 9/21/06													
CHEM 600	INDEPNONT 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													