COLLEGE : J - Engineering
DEPARTMENT: CHEMICAL ENGR

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DU P	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	IAS	NW	EECT	CMP	EQSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
CHEM E	198	CAREER PLANNING II	SPR/1972 - AUT/9999	1.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		CAREER PLANNING II			LAST UPDT:10/02/06			APPROVED:11/11/71														
CHEM E	299	UNDERGRAD RESEARCH	SPR/2012 - AUT/9999	1.0-03.0	9.0	.		.		.	.	.	.	.	.	.	.	.	.			.
		UNDERGRADUATE RESEARCH			LAST UPDT:12/21/11			APPROVED:12/20/11														
CHEM E	301	LEADERSHIP SEMINAR	AUT/2008 - AUT/9999	1.0		.	CR/NC	.		.	.	.	.	.	.	.	.	.	.			.
		LEADERSHIP SEMNIAR			LAST UPDT: 3/14/07			APPROVED: 3/13/07														
CHEM E	309	CREAT INNOVATION	AUT/2010 - AUT/9999	2.0		.		.		.	.	.	Y	.	.	.	.	.	.	BSE	309 BSE 309	.
		CREATIVITY AND INNOVATION			LAST UPDT: 6/16/10			APPROVED:11/22/82														
		COMMENT:CHG JT STATUS																				
CHEM E	310	MATERL & ENRGY BAL	SPR/2011 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		MATERIAL AND ENERGY BALANCES			LAST UPDT: 2/25/11			APPROVED: 3/27/80														
		COMMENT:EMAIL PREQ CHG																				
CHEM E	325	ENERGY AND ENTROPY	AUT/2009 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		ENERGY AND ENTROPY			LAST UPDT: 6/17/09			APPROVED: 6/16/09														
CHEM E	326	CH E THERMODYNAMICS	WIN/1990 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		CHEMICAL ENGINEERING THERMODYNAMICS			LAST UPDT:10/02/06			APPROVED: 2/01/72														
		COMMENT:CHG CREDITS																				
CHEM E	330	TRANSPORT PROCESS I	WIN/2007 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		TRANSPORT PROCESSES I			LAST UPDT:10/02/06																	
		COMMENT:CHG CRS																				
CHEM E	340	TRANSP PROCESS II	WIN/1990 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		TRANSPORT PROCESSES II			LAST UPDT:10/02/06																	
		COMMENT:CHG CREDITS																				
CHEM E	341	ENERGY & ENVIRON	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	Y	.	.	.	.	M E	341 M E 341	.
		ENERGY AND ENVIRONMENT			LAST UPDT: 8/12/09			APPROVED: 1/24/94													ENVIR 341	
		COMMENT:CHG PREQ - JT STATUS																				
CHEM E	345	INTRO FUEL CELLS	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		INTRODUCTION TO FUEL CELLS			LAST UPDT: 6/24/09			APPROVED: 6/25/03														
		COMMENT:CHG PREQ																				
CHEM E	355	BIO FOR ENGINEERS	WIN/2010 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		BIOLOGICAL FRAMEWORKS FOR ENGINEERS			LAST UPDT: 1/05/10			APPROVED: 2/25/02														
		COMMENT:EMAIL PREQ CHG																				

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CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	IAS	NW	ELECT	ECMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
CHEM E	375	CH E COMPUTR SKILLS	WIN/2010 - AUT/9999	2.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		CHEMICAL ENGINEERING COMPUER SKILLS			LAST UPDT:10/16/09 APPROVED: 6/25/03																	
		COMMENT:CHG GRADING																				
CHEM E	435	TRANSP PROCESS III	AUT/1973 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		TRANSPORT PROCESSES III			LAST UPDT: 7/10/09																	
CHEM E	436	CHEM ENGR LAB I	WIN/2008 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		CHEMICAL ENGINEERING LABORATORY I			LAST UPDT: 6/21/07																	
		COMMENT:CHG DESC																				
CHEM E	437	CHEM ENGR LAB II	WIN/1974 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		CHEMICAL ENGINEERING LABORATORY II			LAST UPDT: 7/10/09																	
CHEM E	442	RENEWABLE ENERGY	AUT/2009 - AUT/9999	4.0		.		.		.	.	.	.	.	Y	.	.	.	.	M E 442	M E 442	.
		RENEWABLE ENERGY			LAST UPDT: 8/12/09 APPROVED: 5/24/93																ENVIR 442	
		COMMENT:CHG PREQ - JT STATUS																				
CHEM E	445	FUEL CELL ENGR	SPR/2001 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		FUEL CELL ENGINEERING			LAST UPDT: 8/25/00 APPROVED: 8/23/00																	
CHEM E	450	SLD MTLS& CHEM PROC	WIN/1992 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		SOLID STATE MATERIALS AND CHEMICAL PROCESSES			LAST UPDT:12/28/92 APPROVED: 5/30/91																	
CHEM E	455	SURF COLL SCI LAB	WIN/2010 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		SURFACE AND COLLOID SCIENCE LABORATORY			LAST UPDT: 6/17/09 APPROVED: 3/01/80																	
		COMMENT:CHG CREDITS, PREQ, DESC																				
CHEM E	458	SURFACE ANALYSIS	WIN/1989 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	BIOEN 492	BIOEN 492	.
		SURFACE ANALYSIS			LAST UPDT:10/17/00 APPROVED:12/17/87																	
CHEM E	461	ELECTROCHEMICAL ENG	WIN/1993 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		ELECTROCHEMICAL ENGINEERING			LAST UPDT:12/14/92 APPROVED: 5/29/92																	
CHEM E	462	ENVIRONMENTAL APPL	SPR/1991 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		APPLICATION OF CHEMICAL ENGR PRINC TO ENVRN PROBS			LAST UPDT:12/31/92 APPROVED: 9/18/90																	
CHEM E	465	REACTOR DESIGN	WIN/2008 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		REACTOR DESIGN			LAST UPDT: 6/21/07																	
		COMMENT:CHG DESC																				
CHEM E	467	BIOCHEMICAL ENGRING	WIN/1988 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	CHEM E467	BIOEN 467	.
		BIOCHEMICAL ENGINEERING			LAST UPDT:10/04/94 APPROVED:12/17/87																	

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CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	I&S	NW	ELECT	ECMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
CHEM E	468	AIR P CONT DESIGN	SUM/2000 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	CEE 494	CEE 494 M E 468	.
		AIR POLUTION CONTROL EQUIPMENT DESIGN			LAST UPDT:10/02/06			APPROVED: 5/27/82														
CHEM E	475	CMPU ANLYS CHM ENGR	AUT/1988 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		COMPUTER ANALYSIS IN CHEMICAL ENGINEERING			LAST UPDT: 0/00/00			APPROVED:12/01/87														
CHEM E	477	MOLEC BIOL APPLIC	SPR/1996 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		PROKARYOTIC MOLECULAR BIOLOGY APPLICATIONS IN ENG			LAST UPDT: 3/19/96			APPROVED: 2/23/96														
CHEM E	480	PROC DYNM & CONTRL	WIN/2008 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		PROCESS DYNAMICS AND CONTROL			LAST UPDT: 6/21/07																	
		COMMENT:CHG DESC																				
CHEM E	481	PROCESS OPTIMIZATN	SPR/1968 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		PROCESS OPTIMIZATION			LAST UPDT: 6/06/06																	
CHEM E	482	ADVANCED CONTROL	SPR/1988 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		ADVANCED TOPICS IN PROCESS CONTROL			LAST UPDT: 3/14/94			APPROVED:12/01/87														
CHEM E	484	ELECTRONIC POLYMERS	AUT/2003 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		ELECTRONIC AND OPTOELECTRONIC POLYMERS			LAST UPDT: 6/26/03			APPROVED: 6/25/03														
		COMMENT:CONVERSION OF TEMP COURSE																				
CHEM E	485	PROCESS DESIGN I	WIN/2008 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		PROCESS DESIGN I			LAST UPDT: 6/21/07			APPROVED: 4/01/80														
		COMMENT:CHG DESC																				
CHEM E	486	PROCESS DESIGN II	SPR/1998 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		PROCESS DESIGN II			LAST UPDT:10/02/06																	
		COMMENT:CHG CREDITS																				
CHEM E	490	ENG MATLS BIOMED AP	SPR/1978 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	BIOEN 490	BIOEN 490	.
		ENGINEERING MATERIALS FOR BIOMEDICAL APPLICATIONS			LAST UPDT:10/02/06			APPROVED: 9/23/71														
		COMMENT:NEW DESCRIPTION																				
CHEM E	491	CONTROLLED RELEASE	WIN/1979 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	BIOEN 491	BIOEN 491	.
		CONTROLLED RELEASE SYSTEMS-PRINCIPLES & APPLICATNS			LAST UPDT:10/04/94			APPROVED:11/17/77														
CHEM E	495	PHYS CHEM TRNSPORT	AUT/1988 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		PHYSICOCHEMICAL TRANSPORT PHENOMENA			LAST UPDT: 0/00/00			APPROVED:12/01/87														
CHEM E	497	DESIGN SPEC PROJ	SPR/1998 - AUT/9999	1.0-06.0	12.0	.		.	11	.	.	.	.	.	.	.	.	.	.			.
		SPECIAL PROJECTS IN CHEMICAL ENGINEERING DESIGN			LAST UPDT: 4/24/98			APPROVED: 3/31/98														

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CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	IAS	NW	ELECT	ECMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
CHEM E	498	SPECIAL TOPICS	WIN/1980 - AUT/9999	1.0-04.0	12.0	Y		.														.
		SPECIAL TOPICS IN CHEMICAL ENGINEERING			LAST UPDT:10/02/06			APPROVED: 6/07/79														
		COMMENT:RICHLAND ADDED 01-24-1980																				
CHEM E	499	UNDERGRAD RESEARCH	SPR/1988 - AUT/9999	1.0-06.0	12.0	Y		.	11													.
		UNDERGRADUATE RESEARCH			LAST UPDT:10/02/06																	
		COMMENT:CHG PREQS																				
CHEM E	510	MATH FOUND SYST THR	AUT/2005 - AUT/9999	4.0				.												E E 510	A A 510	.
		MATHEMATICAL FOUNDATIONS OF SYSTEMS THEORY			LAST UPDT: 3/28/05			APPROVED:10/24/91													E E 510	
		COMMENT: CHG JOINT AA NUMBER																			M E 510	
CHEM E	511	BIOMATERIAL SEMINAR	SPR/2010 - AUT/9999	1.0	18.0		CR/NC	.												BIOEN 511	BIOEN 511	.
		BIOMATERIALS SEMINAR			LAST UPDT:12/15/09			APPROVED:12/09/92														
		COMMENT:CHG MAX CREDITS																				
CHEM E	512	METH OF ENGR ANALYS	AUT/2011 - AUT/9999	3.0				.												CHEM E512	AMATH 512	.
		METHODS OF ENGINEERING ANALYSIS			LAST UPDT: 5/19/11			APPROVED: 5/14/97														
		COMMENT:CHG RESP DEPT																				
CHEM E	515	EXPERIMENTL METHODS	AUT/2003 - AUT/9999	3.0				.														.
		EXPERIMENTAL METHODS IN CHEMICAL ENGINEERING RESEA			LAST UPDT: 6/26/03			APPROVED: 6/25/03														
CHEM E	523	SMNR IN CHEM ENGR	AUT/1984 - AUT/9999	0.0-01.0			CR/NC	.														.
		SEMINAR IN CHEMICAL ENGINEERING			LAST UPDT:10/02/06			APPROVED: 5/23/69														
		COMMENT:CHG CREDITS																				
CHEM E	525	CHEM ENGR THERMDYNM	AUT/1972 - AUT/9999	4.0				.														.
		CHEMICAL ENGINEERING THERMOYNAMICS			LAST UPDT:10/02/06																	
		COMMENT:CHG CREDITS																				
CHEM E	526	TPCS IN THERMODYNAM	AUT/1982 - AUT/9999	3.0				.														.
		TOPICS IN THERMODYNAMICS			LAST UPDT:10/02/06																	
		COMMENT:CHG DESC																				
CHEM E	530	MOMNT,HT,MS TR I	AUT/1986 - AUT/9999	4.0				.														.
		MOMENTUM,HEAT,AND MASS TRANSFER I			LAST UPDT: 2/26/10																	
CHEM E	531	MOMNT,HT,MS TR II	WIN/2001 - AUT/9999	3.0				.														.
		MOMENTUM,HEAT,AND MASS TRANSFER II			LAST UPDT:10/02/06			APPROVED: 5/23/63														
		COMMENT:CHANGE CREDITS																				

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CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	IS	NW	ELECT	ECMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
CHEM E	532	SEPARATION PROCESS	AUT/1982 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		SEPARATION PROCESSES				LAST UPDT:10/02/06																
		COMMENT:CHG DESC																				
CHEM E	533	MASS TRANSFER	WIN/1982 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		MASS TRANSFER				LAST UPDT: 0/00/00				APPROVED: 9/01/81												
CHEM E	554	NANOSCALE SCI I	SPR/1998 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		NANOSCALE SCIENCE I: CONTACT MECHANICS & RHEOLO...				LAST UPDT: 1/30/98				APPROVED:10/23/97												
CHEM E	555	INTERFACL PHENOMENA	WIN/1984 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		INTERFACIAL PHENOMENA				LAST UPDT:10/02/06																
		COMMENT:RTRN CHG CREDITS																				
CHEM E	556	COLLOIDAL MATERIALS	SPR/1981 - AUT/9999	3.0-04.0	4.0	.		.		.	.	.	.	.	.	.	.	.	.			.
		PRINCIPLES & APPLICATIONS OF COLLOIDAL MATERIAL				LAST UPDT:10/02/06				APPROVED: 3/02/72												
		COMMENT:CHG CREDITS																				
CHEM E	557	RES INTERF COLL SCI	AUT/1997 - AUT/9999	1.0		.	CR/NC	.		.	.	.	.	.	.	.	.	.	.			.
		RESEARCH IN INTERFACIAL AND COLLOID SCIENCE				LAST UPDT: 4/30/97				APPROVED: 4/15/97												
CHEM E	558	SURFACE ANALYSIS	WIN/1985 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	BIOEN 592	BIOEN 592	.
		SURFACE ANALYSIS				LAST UPDT:10/17/00				APPROVED:10/25/84												
CHEM E	559	THIN FILM TECHNOL	SPR/1996 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	CHEM E559	MSE 559	.
		THIN FILM SCIENCE, ENGINEERING, AND TECHNOLOGY				LAST UPDT: 7/03/95				APPROVED: 6/30/95												
CHEM E	560	REACTNS AT SURFACES	SPR/1988 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		REACTIONS AT SOLID SURFACES				LAST UPDT:10/02/06				APPROVED:12/17/87												
CHEM E	561	ELECTRONS AT SURFS	WIN/1997 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		ELECTRONS AT SURFACES				LAST UPDT:11/25/96				APPROVED:11/18/96												
CHEM E	562	HAZARDOUS AIR POLL	WIN/2001 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	CHEM E562	CEE 556	.
		HAZARDOUS AIR POLLUTION				LAST UPDT: 8/29/00				APPROVED:12/01/89												
CHEM E	564	APPL CHEM KINETICS	AUT/1982 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		APPLICATIONS OF CHEMICAL KINETICS				LAST UPDT:10/02/06				APPROVED: 2/18/71												
		COMMENT:CHG DESC																				
CHEM E	565	KINETIC & CATALYSIS	WIN/1978 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		KINETICS AND CATALYSIS				LAST UPDT: 0/00/00																

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CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	I&S	NW	ELECT	EC	MP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
CHEM	E 566	GAS AIR POLL CONT	WIN/2001 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	.	CHEM E566	CEE 558	.
		CONTROL OF GASEOUS AIR POLLUTANTS			LAST UPDT: 3/04/05			APPROVED:12/01/83															
		COMMENT:CHG JT STATUS																					
CHEM	E 567	PART AIR POLL CONT	AUT/1984 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	.	CHEM E567	CEE 559	.
		CONTROL OF PARTICULATE AIR POLLUTANTS			LAST UPDT:10/02/06			APPROVED:12/15/83															
CHEM	E 570	HIGH POLYMERS	SPR/1977 - AUT/9999	3.0		6.0	Y	.		.	.	.	.	.	.	.	.	.	.	.			.
		CHEMISTRY OF HIGH POLYMERS			LAST UPDT: 0/00/00																		
CHEM	E 571	POLY PHYS ENGR	SPR/1978 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	.			.
		POLYMER PHYSICS AND ENGINEERING			LAST UPDT: 0/00/00			APPROVED:10/01/77															
CHEM	E 572	ADV POLY COMP	AUT/1982 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	.			.
		ADVANCED POLYMERIC COMPOSITES			LAST UPDT: 0/00/00			APPROVED: 2/01/82															
CHEM	E 575	NONLINEAR ANALYSIS	SPR/1974 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	.			.
		NONLINEAR ANALYSIS IN CHEMICAL ENGINEERING			LAST UPDT:10/02/06			APPROVED: 5/23/63															
		COMMENT:CHG TITLES, CREDITS																					
CHEM	E 580	TOPICS CH E DESIGN	SPR/1975 - AUT/9999	3.0		9.0	Y	.		.	.	.	.	.	.	.	.	.	.	.			.
		TOPICS IN CHEMICAL ENGINEERING DESIGN			LAST UPDT:10/02/06			APPROVED: 3/28/74															
		COMMENT:CHG CREDITS																					
CHEM	E 582	ADVANCED CONTROL	SPR/1988 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	.			.
		ADVANCED TOPICS IN PROCESS CONTROL			LAST UPDT: 3/04/05			APPROVED:12/01/87															
CHEM	E 584	ELECTRONIC POLYMERS	AUT/2003 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	.			.
		ELECTRONIC AND OPTOELECTRONIC POLYMERS			LAST UPDT: 6/26/03			APPROVED: 6/25/03															
		COMMENT:CONVERSION OF TEMP COURSE																					
CHEM	E 588	RES APPL MICROBIOL	AUT/1997 - AUT/9999	1.0		.	CR/NC	.		.	.	.	.	.	.	.	.	.	.	.	CHEM E588	MICROM588	.
		RESEARCH IN APPLIED MICROBIOLOGY			LAST UPDT: 4/30/97			APPROVED: 4/15/97															
CHEM	E 590	ADV BIOMATERIALS	SPR/1986 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	.	BIOEN 590	BIOEN 590	.
		ADVANCED TOPICS IN BIOMATERIALS			LAST UPDT:10/04/94			APPROVED:11/25/85															
CHEM	E 591	ROBOT & CONTR COLL	AUT/1996 - AUT/9999	1.0		3.0	Y CR/NC	.		.	.	.	.	.	.	.	.	.	.	.	A A 591	A A 591	.
		ROBOTICS AND CONTROL SYSTEMS COLLOQUIUM			LAST UPDT: 4/03/97			APPROVED:10/27/93														E E 591	
																						M E 591	
CHEM	E 598	TEACHING CHEM ENG	WIN/1994 - AUT/9999	1.0-02.0		3.0	Y	.	11	.	.	.	.	.	.	.	.	.	.	.			.
		EFFECTIVE TEACHING OF CHEMICAL ENGINEERING			LAST UPDT: 4/26/93			APPROVED: 4/26/93															

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CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	I&S	NW	ELECT	EMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
CHEM E	599	CURRENT TPCS CH E CURRENT TOPICS IN CHEMICAL ENGINEERING COMMENT:CHG CREDITS	WIN/2009 - AUT/9999	1.0-05.0	12.0	Y		.														.
					LAST UPDT:11/19/08																	
CHEM E	600	INDEPENDNT STDY/RSH INDEPENDENT STUDY OR RESEARCH	SUM/1976 - AUT/9999	0.0	999.0	.		.	11													.
					LAST UPDT: 4/19/10 APPROVED:11/01/74																	
CHEM E	700	MASTERS THESIS MASTERS THESIS	AUT/1967 - AUT/9999	0.0	999.0	.		.	11													.
					LAST UPDT: 4/19/10 APPROVED:11/01/74																	
CHEM E	800	DOCTORAL DISSERTATN DOCTORAL DISSERTATION	SUM/1976 - AUT/9999	0.0	999.0	.		.	11													.
					LAST UPDT: 4/19/10 APPROVED: 1/01/70																	

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CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	I&S	NW	ELECT	EMP	CQSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
NME	220	MOL/NANO PRINCIPLES	WIN/2011 - AUT/9999	4.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
		INTRODUCTION TO MOLECULAR AND NANOSCALE PRINCIPLES																				
		COMMENT:WAS CHEM E 220																				
NME	221	NANO MOL ENG SEM I	SUM/2010 - AUT/9999	1.0		.	CR/NC	.		.	.	.	.	.	.	.	.	.	.			.
		NANOSCIENCE AND MOLECULAR ENGINEERING SEMINAR I																				
NME	321	NANO MOL ENG SEM II	SPR/2011 - AUT/9999	1.0		.	CR/NC	.		.	.	.	.	.	.	.	.	.	.			.
		NANOSCIENCE AND MOLECULAR ENGINEERING SEMINAR II																				
		COMMENT:EMAIL PREQ CHG																				
NME	421	NANO MOL ENG SEM III	SUM/2010 - AUT/9999	1.0		.	CR/NC	.		.	.	.	.	.	.	.	.	.	.			.
		NANOSCIENCE AND MOLECULAR ENGINEERING SEMINAR III																				
NME	498	SPECIAL TOPICS	AUT/2010 - AUT/9999	1.0-04.0	12.0	.		.		.	.	.	.	.	.	.	.	.	.			.
		SPECIAL TOPICS IN NANOSCIENCE & MOLECULAR ENGINEER																				

LAST UPDT: 6/17/10 APPROVED: 1/20/09
LAST UPDT: 6/17/10 APPROVED: 5/18/10
LAST UPDT: 5/19/11 APPROVED: 5/18/10
LAST UPDT: 6/17/10 APPROVED: 5/18/10
LAST UPDT: 6/17/10 APPROVED: 5/18/10