COLLEGE : J - Engineering
DEPARTMENT: MAT SCI AND ENGR

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	IAS	NW	ELECT	EMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
MSE	170	FUNDMNT MATERLS SCI Fundamentals of Materials Science	AUT/2009 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	.		.
		LAST UPDT: 6/24/09 APPROVED: 6/15/99																				
		COMMENT:CHG PREQ																				
MSE	273	INTR MOLC ENG MATS Introduction to Molecular Engineering of Interfaces and Surfaces	WIN/2012 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	.		.
		LAST UPDT:11/18/11 APPROVED:10/18/11																				
MSE	298	INTRO MODERN MTLS Introduction to Modern Materials	SPR/2005 - AUT/9999	1.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		.
		LAST UPDT: 2/02/05 APPROVED: 1/31/05																				
MSE	310	INTRO MSE Introduction to Materials Science and Engineering	AUT/2002 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.		.
		LAST UPDT: 8/31/15 APPROVED: 2/22/93																				
		COMMENT:WAS MSE 300;CHG CRDS,HRS,DESCR FEE TYPE:1 $25.00 BUDGET:069332 REV OBJ CD:943081																				
MSE	311	INTEGRAT JR LAB I Integrated Junior Laboratory I	AUT/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.		.
		LAST UPDT: 8/31/15 APPROVED: 2/22/93																				
		COMMENT:CHG CREDITS, PREQ FEE TYPE:1 $45.00 BUDGET:069332 REV OBJ CD:943081																				
MSE	312	INTEGRAT JR LAB II Integrated Junior Laboratory II	WIN/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.		.
		LAST UPDT: 8/31/15 APPROVED: 2/22/93																				
		COMMENT:CHG CREDITS, PREQ FEE TYPE:1 $45.00 BUDGET:069332 REV OBJ CD:943081																				
MSE	313	INTEGRAT JR LAB III Integrated Junior Laboratory III	SPR/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.		.
		LAST UPDT: 8/31/15 APPROVED: 2/22/93																				
		COMMENT:CHG DESC, CREDITS FEE TYPE:1 $45.00 BUDGET:069332 REV OBJ CD:943081																				
MSE	321	THERM & PHAS EQUIL Thermodynamics and Phase Equilibrium	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		.
		LAST UPDT: 3/12/14																				
		COMMENT:EMAIL PREQ CHG																				
MSE	322	KINETIC MICRO EVOL Kinetics and Microstructural Evolution	WIN/2003 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		.
		LAST UPDT:10/25/06 APPROVED: 6/24/02																				
		COMMENT:WAS MSE315;CHG TITLE,DESC.PRER																				

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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
MSE	331	CRYSTALLOG & STRUCT Crystallography and Structure	AUT/2002 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/14/08 APPROVED: 2/22/93																	
		COMMENT:WAS MSE 314; CHG TTLS,CRDS,CD																				
MSE	333	MTLS CHARACTERIZ Materials Characterization	SPR/2012 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 6/18/12 APPROVED: 6/24/02																	
		COMMENT:CHG PREQ																				
MSE	342	MATERIALS PROCESS I Materials Processing I	AUT/2014 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 3/12/14 APPROVED: 6/24/02																	
		COMMENT:EMAIL PREQ CHG																				
MSE	351	ELEC PROP MATERIALS Electronic Properties of Materials	WIN/2011 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT:12/15/09																	
		COMMENT:CHG TITLES																				
MSE	352	PROP OF MATERIALS Functional Properties of Materials I	SPR/2003 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 6/25/02 APPROVED: 6/24/02																	
MSE	362	MECH BEHAV MTLS I Mechanical Behavior of Materials I	SPR/2003 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/14/08 APPROVED:11/17/83																	
		COMMENT:WAS MSE316;CHG TITLE,CR,DES,PR																				
MSE	399	UG RES SEMINAR Undergraduate Research Seminar	WIN/2014 - AUT/9999	1.0		.	CR/NC	.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 6/05/13 APPROVED: 6/04/13																	
MSE	421	STUDIES IN THERMO Case Studies in Thermodynamics	WIN/2003 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT:10/25/06 APPROVED:11/17/83																	
		COMMENT:CHG TITLES,DESCRIPT,PREREQ.																				
MSE	431	FAILURE ANALYSIS Failure Analysis and Durability of Materials	AUT/2007 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/14/08 APPROVED: 4/19/75																	
		COMMENT:CHG TITLES, PREQ																				

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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
MSE	442	MTLS PROCESSING II Materials Processing II	AUT/2002 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/06/08			APPROVED: 3/18/71														
		COMMENT:WAS CER E 421;CHG CRDS,TTLS,CD																				
MSE	443	PROCESS PRINCIPLES Process Principles in Ferrous and Non-Ferrous Materials Production	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 3/18/09			APPROVED: 9/22/83														
		COMMENT:CHG TITLES, DESC																				
MSE	450	MAGNETIC MATERIALS Magnetism, Magnetic Materials, and Related Technologies	SPR/2013 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 5/16/12			APPROVED: 5/15/12														
MSE	452	PROPERTIES MTLS II Functional Properties of Materials II	WIN/2003 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/06/08			APPROVED: 9/20/79														
		COMMENT:WAS CER E414;CHG TITLE,CR,DES,																				
MSE	462	MECH BEHAV MTLS II Mechanical Behavior of Materials II	SPR/2009 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT:10/22/08			APPROVED: 4/01/75														
		COMMENT:CHG PREQ																				
MSE	463	CORROSN & WEAR MTLS Corrosion and Wear of Materials	SPR/2003 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/14/08			APPROVED: 7/10/69														
		COMMENT:WAS METE432;CHG TITLES,CR,DESC																				
MSE	471	POLYMER SCI & ENGR Introduction to Polymer Science and Engineering	AUT/2002 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/14/08			APPROVED:12/21/88														
		COMMENT:WAS MSE 433; CHG TTLS,DESCR,HR																				
MSE	473	NONCRYSTALLINE STATE Noncrystalline State	SPR/2003 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/06/08																	
		COMMENT:WAS CERE 411;CHG TITLE,DES,PRE																				
MSE	475	COMPOSITE MATERIALS Introduction to Composite Materials	AUT/2003 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/14/08																	
		COMMENT:WAS MSE423;CHG TITLE,DESC,PRER																				

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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	CMP	EQSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
MSE	477	HI-TEMP MATERIALS High Temperature Materials	SPR/2003 - AUT/9999	4.0		.		.		.	.	.										.
					LAST UPDT: 8/06/08																	
		COMMENT:WAS CERE470;CHG TITLE,DESC,PRE																				
MSE	481	NANOSTRUCTURES Science and Technology of Nanostructures	WIN/2005 - AUT/9999	3.0		.		.		.	.	.										.
					LAST UPDT:12/23/03 APPROVED:12/22/03																	
MSE	482	BIOMATS, TISSUE ENG Biomaterials/Nanomaterials in Tissue Engineering	WIN/2013 - AUT/9999	3.0		.		.		.	.	.										.
					LAST UPDT:12/19/12 APPROVED:12/18/12																	
MSE	483	NANOMEDICINE Nanomedicine	SPR/2013 - AUT/9999	3.0		.		.		.	.	.										.
					LAST UPDT:12/19/12 APPROVED:12/18/12																	
MSE	484	MATERIALS CHEMISTRY Materials Chemistry	SPR/2006 - AUT/9999	3.0		.		.		.	.	.			Y					CHEM	484 CHEM 484	.
					LAST UPDT: 8/20/14 APPROVED: 2/24/06																	
		COMMENT:WAS MSE 371																				
MSE	485	ELECTRNC PACKAGING Introduction to Electronic Packaging and Materials	WIN/1997 - AUT/9999	3.0		.		.		.	.	.								M E	485 M E 485	.
					LAST UPDT: 6/14/96 APPROVED: 4/29/96																	
MSE	486	IC TECHNOLOGY Fundamentals of Integrated Circuit Technology	AUT/2012 - AUT/9999	3.0		.		.		.	.	.								MSE	486 E E 486	.
					LAST UPDT: 5/31/12 APPROVED: 1/03/01																	
		COMMENT:EMAIL PREQ CHG																				
MSE	487	ELECT PKG LAB Laboratory in Electronic Packaging and Materials	WIN/2000 - AUT/9999	1.0		.		.		.	.	Y								M E	487 M E 487	.
					LAST UPDT: 7/23/15 APPROVED: 2/03/99																	
					FEE TYPE:1 $75.00 BUDGET:069397 REV OBJ CD:943081																	
MSE	491	DESIGN MTLS ENGRG I Design in Materials Engineering I	SPR/2007 - AUT/9999	2.0		.		.		.	.	.										.
					LAST UPDT:10/26/09																	
		COMMENT:CHG TITLES, CREDITS, PREQ																				
MSE	492	DESIGN MTLS ENGRG II Design in Materials Engineering II	SPR/2007 - AUT/9999	2.0		.		.		.	.	.										.
					LAST UPDT: 1/24/07 APPROVED:12/11/02																	
		COMMENT:CHG CREDITS, DESC																				

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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	EMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
MSE	497	UNDERGRAD RESEARCH	SPR/2005 - AUT/9999	1.0-05.0	12.0	.	CR/NC	.		.	.	.	.	.	.	.	.	.	.			.
		Undergraduate Research																				
					LAST UPDT:12/21/04 APPROVED:12/24/04																	
MSE	498	SPECIAL TOPICS	WIN/2013 - AUT/9999	1.0-05.0	15.0	Y		.		.	.	Y	.	.	.	.	.	.	.			.
		Special Topics																				
					LAST UPDT:12/18/12 APPROVED:11/17/83																	
		COMMENT:CHG MAX CREDITS		FEE TYPE:1 $50.00 BUDGET:069332 REV OBJ CD:943081																		
MSE	499	SPECIAL PROJECT	AUT/1992 - AUT/9999	0.0	5.0	Y		.	11	.	.	.	.	.	.	.	.	.	.			.
		Special Project																				
					LAST UPDT: 2/24/95 APPROVED:11/19/87																	
		COMMENT:CHANGE DESCRIPTION																				
MSE	501	ADV PROC. INORG MAT	AUT/1999 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Advanced Processing of Inorganic Materials																				
					LAST UPDT:10/30/06 APPROVED:10/27/89																	
		COMMENT:CHANGE TITLE & DESCRIPTION																				
MSE	502	SOL-GEL PROCESSING	AUT/1999 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Sol-Gel Processing																				
					LAST UPDT: 2/08/99 APPROVED: 2/03/99																	
MSE	504	INTRO TO MEMS	AUT/2001 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.	E E	502 M E 504	.
		Introduction to Microelectro Mechanical Systems																				
					LAST UPDT:10/30/06 APPROVED: 5/21/01																E E 502	
		COMMENT:CHANGE JOINT STATUS																				
MSE	510	BONDING & STRUCTURE	AUT/2004 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Bonding, Crystallography, and Symmetry-Related Properties of Materials																				
					LAST UPDT:12/01/03 APPROVED:10/01/89																	
		COMMENT:CHANGE DESC,TITLES																				
MSE	512	TRANSM ELC MICRSCPY	WIN/1990 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Experimental Transmission Electron Microscopy																				
					LAST UPDT:10/30/06 APPROVED: 6/27/85																	
		COMMENT:CHG DESC																				
MSE	513	TEM LAB	WIN/1990 - AUT/9999	2.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Transmission Electron Microscopy Laboratory																				
					LAST UPDT:10/30/06 APPROVED: 6/27/85																	
		COMMENT:CHG TITLES, DESC																				

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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
MSE	515	ADV TEM Advanced Transmission Electron Microscopy	SPR/1990 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 0/00/00 APPROVED:10/01/89																	
MSE	518	ADVANCED MINERALOGY Advanced Mineralogy	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	ESS 537	ESS 537	.
					LAST UPDT: 8/12/09 APPROVED: 3/01/90																	
		COMMENT:CHG JT STATUS																				
MSE	520	SEMINAR Seminar	SPR/1984 - AUT/9999	1.0	6.0	Y	CR/NC	.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT:10/30/06 APPROVED:11/17/83																	
		COMMENT:WAS CER E/MET E 520																				
MSE	524	APP RATE PHENOMENA Applied Rate Phenomena	AUT/1977 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT:10/30/06 APPROVED: 3/30/77																	
MSE	525	KINETICS & PHASE TR Kinetics and Phase Transformations	SPR/2000 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT:10/30/06 APPROVED:10/27/89																	
		COMMENT:CHG TITLE & DESCRIPTION																				
MSE	528	PHYSICS VLSI FAB Physics and Modeling of VLSI Fabrication	AUT/2005 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.	E E 528	E E 528	.
					LAST UPDT: 5/26/05 APPROVED: 5/23/05																	
MSE	541	DEFECTS IN MATERIALS Defects in Materials	WIN/2001 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT:10/30/06 APPROVED:10/27/89																	
		COMMENT:CHANGE TITLES AND PREREQS																				
MSE	550	MAGNETIC MATERIALS Magnetism, Magnetic Materials, and Related Technologies	SPR/2012 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 5/15/12 APPROVED: 2/26/03																	
		COMMENT:CHG DESC																				
MSE	555	BIOMIMETICS Biomimetics: Bioinspired Design and Processing of Materials	SUM/1996 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 4/23/97 APPROVED: 1/24/96																	
MSE	560	ELECT/PHOTONIC MTLS Organic Electronic and Photonic Materials/Polymers	SPR/2005 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	MSE 560	CHEM 564	.
					LAST UPDT: 8/24/04 APPROVED: 8/20/04																	

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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
MSE	562	INTRO ELECTRONC COMP Introduction to Electronic Composites	SPR/1999 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	M E 562	M E 562	.
		LAST UPDT:10/30/06 APPROVED: 2/23/89																				
		COMMENT:CHANGE TITLE & DESCRIPTION																				
MSE	563	ADVANCED COMPOSITES Advanced Composites: Design and Manufacturing	SPR/1999 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	MSE 563	M E 563	.
		LAST UPDT: 2/23/99 APPROVED: 2/22/99																				
MSE	565	ELECTRON THEORY MTL Electron Theory of Materials	AUT/2010 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 5/26/10 APPROVED: 9/20/84																				
		COMMENT:10-12 PREQ CHG																				
MSE	568	ACT/SENSING MATR Active and Sensing Materials	AUT/2008 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	M E 568	M E 568	.
		LAST UPDT: 4/28/08 APPROVED: 4/15/08																				
MSE	570	MSE GRAD TUTORIAL Graduate Tutorial in Materials Science and Engineering	AUT/2013 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 9/24/13 APPROVED: 9/17/13																				
MSE	571	POLYMERIC MATERIALS POLYMERIC MATERIALS	AUT/1992 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	BIOEN 571	BIOEN 571	.
		LAST UPDT:10/04/94 APPROVED: 5/29/92																				
MSE	582	BIOMATS, TISSUE ENG Biomaterials/Nanomaterials in Tissue Engineering	WIN/2013 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT:12/19/12 APPROVED:12/18/12																				
MSE	583	NANOMEDICINE Nanomedicine	SPR/2013 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT:12/19/12 APPROVED:12/18/12																				
MSE	598	ENGR MTLS PROJECT Engineering Materials Problems	AUT/1999 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 6/22/99 APPROVED: 6/21/99																				
MSE	599	SPEC TPCS MATLS SCI Special Topics in Materials Science	WIN/2013 - AUT/9999	1.0-05.0	15.0	Y		.		.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT:12/18/12 APPROVED: 1/29/87																				
		COMMENT:CHG MAX 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	EECMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
MSE	600	INDEPENDENT STUDY Independent Study or Research	WIN/1989 - AUT/9999	0.0	999.0	.		.	11		.	.	.			.	.	.	.	.		.
		LAST UPDT: 4/19/10 APPROVED: 6/09/88																				
		COMMENT:WAS CER E 600																				
MSE	700	MASTERS THESIS Master's Thesis	AUT/1988 - AUT/9999	0.0	999.0	.		.	11		.	.	.			.	.	.	.	.		.
		LAST UPDT: 4/19/10 APPROVED: 6/09/88																				
MSE	800	DOCTORAL DISSERTATN Doctoral Dissertation	WIN/1989 - AUT/9999	0.0	999.0	.		.	11		.	.	.			.	.	.	.	.		.
		LAST UPDT: 4/19/10 APPROVED: 6/09/88																				
		COMMENT:WAS CER E 800																				