

DATE: 01-21-2020
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UNIVERSITY OF WASHINGTON STUDENT RECORDS SYSTEM
 DETAILED CURRICULUM REPORT
 Seattle CAMPUS

REPORT: SR21010-R-01 K
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COLLEGE : J - Engineering
 DEPARTMENT: AERONAUTICAL & ASTRO

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 & A	N C	M S	N					
A A 101	AIR/SPACE VEHICLES Air and Space Vehicles	AUT/1997 - AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 8/08/18 APPROVED: 2/14/97 FEE TYPE:1 \$25.00 BUDGET:069310 REV OBJ CD:943081													
A A 198	SPECIAL TOPICS Special Topics in Aeronautics and Astronautics	SUM/2009 - AUT/9999	1.0-05.0	10.0	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 4/21/09 APPROVED: 4/21/09													
A A 210	ENGR STATICS Engineering Statics	WIN/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT:12/05/12 APPROVED: 3/15/99													
				COMMENT:EMAIL PREQ CHG													
A A 260	THERMODYNAMICS Thermodynamics	WIN/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT:12/05/12 APPROVED: 2/23/96													
				COMMENT:EMAIL PREQ CHG													
A A 299	UNDERGRAD RESEARCH Undergraduate Research	WIN/2007 - AUT/9999	1.0-05.0	10.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/14/06 APPROVED:11/14/06													
A A 301	COMP AERODYNAMICS Compressible Aerodynamics	SUM/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/05/13													
				COMMENT:CHG DESC, PREQ													
A A 302	INCOMP AERODYNAMICS Incompressible Aerodynamics	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/10/18													
A A 310	ORB SPACE FLIGHT Orbital and Space Flight Mechanics	AUT/2000 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/28/00 APPROVED: 5/06/71													
				COMMENT:CD PROOF PREREQ CHANGE													
A A 311	ATM FLIGHT MECH Atmospheric Flight Mechanics	AUT/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/25/16 APPROVED: 6/03/71													
A A 312	STRUCT VIBRATIONS Structural Vibrations	AUT/2000 - AUT/9999	4.0
				LAST UPDT: 2/28/00 APPROVED: 7/29/71													
				COMMENT:CD PROOF PREREQ CHANGE													

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				-ALL	U		GRD	E	U	N	E	P	&	N			
A A	320 AEROSPACE INSTR Aerospace Instrumentation	AUT/2016 - AUT/9999	3.0	Y
				LAST UPDT: 8/25/16 APPROVED: 5/22/63 FEE TYPE:1 \$15.00 BUDGET:069310 REV OBJ CD:943081													
A A	321 AEROSPACE LAB I Aerospace Laboratory I	WIN/2017 - AUT/9999	3.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/04/17 APPROVED: 5/23/63 FEE TYPE:1 \$50.00 BUDGET:069626 REV OBJ CD:943081													
A A	322 AEROSPACE LAB II Aerospace Laboratory II	SPR/2016 - AUT/9999	3.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/10/17 APPROVED: 5/23/63 FEE TYPE:1 \$50.00 BUDGET:069626 REV OBJ CD:943081													
A A	330 STRUCTRL ANLYS I STRUCTURAL ANALYSIS I	AUT/1996 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/02/97 COMMENT:CHANGE DESCRIPTION													
A A	331 AEROSPACE STRUCT I Aerospace Structures I	SUM/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/13/13 COMMENT:CHG DESC													
A A	332 AEROSPACE STRUCT II Aerospace Structures II	SUM/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/13/13 COMMENT:CHG DESC													
A A	370 INTRO APPLIED ANLYS INTRODUCTION TO APPLIED ANALYSIS	SPR/1996 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/03/97 APPROVED: 9/18/69 COMMENT:CHANGE DESCRIPTION													
A A	395 UNDERGRAD SEMINAR Undergraduate Seminar	AUT/2017 - AUT/9999	1.0	4.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/12/17 APPROVED:11/14/06													
A A	400 GAS DYNAMICS Gas Dynamics	WIN/2010 - AUT/9999	3.0
				LAST UPDT: 2/11/19 COMMENT:10-12 PREQ CHG													

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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	L I E C Q T	P & N C M S N	A S W T P R G				
A A	401 FLUID MECHANICS FLUID MECHANICS	WIN/1984 - AUT/9999	3.0
				LAST UPDT:10/02/06													
				COMMENT:CHANGE DESCRIPTION													
A A	402 VISC FLUID MECHANICS Viscous Fluid Mechanics	SPR/2018 - AUT/9999	3.0
				LAST UPDT:10/18/17													
A A	405 AEROSPACE PLASMAS Introduction to Aerospace Plasmas	AUT/2000 - AUT/9999	3.0
				LAST UPDT: 2/28/00													
				COMMENT:CD PROOF PREREQ CHANGE													
A A	406 ELECTRIC PROPULSION Electric Propulsion	AUT/2019 - AUT/9999	3.0
				LAST UPDT: 3/22/19 APPROVED: 6/01/99													
A A	409 COMPUTER TOOLS COMPUTER TOOLS FOR AEROSPACE ENGINEERS	AUT/2007 - AUT/9999	2.0
				LAST UPDT: 5/16/07 APPROVED:12/30/98													
				COMMENT:CHG TITLES													
A A	410 AIRCRAFT DESIGN I Aircraft Design I	WIN/2017 - AUT/9999	4.0	.	.	12	.	Y
				LAST UPDT: 8/25/16													
				FEE TYPE:1 \$50.00 BUDGET:069310 REV OBJ CD:943081													
A A	411 AIRCRAFT DESIGN II Aircraft Design II	AUT/2000 - AUT/9999	4.0	.	.	22	.	Y
				LAST UPDT: 2/10/17													
				FEE TYPE:1 \$50.00 BUDGET:069626 REV OBJ CD:943081													
				COMMENT:EMAIL PREREQ CHANGE													
A A	419 AEROSPACE HEAT TSFR Aerospace Heat Transfer	AUT/2000 - AUT/9999	3.0
				LAST UPDT: 2/28/00 APPROVED:12/06/91													
				COMMENT:CD PROOF PREREQ CHANGE													
A A	420 SPACE SYS DESIGN I Spacecraft and Space Systems Design I	WIN/2017 - AUT/9999	4.0	.	.	12	.	Y
				LAST UPDT: 2/10/17 APPROVED: 6/28/79													
				FEE TYPE:1 \$50.00 BUDGET:069626 REV OBJ CD:943081													

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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 A	527 SPACE POWER SYSTEM Space Power Systems	WIN/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/21/09		APPROVED: 1/20/09											
A A	528 SPACE DYN & CONTROL Spacecraft Dynamics and Control	WIN/2008 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/30/07		APPROVED:10/30/07											
A A	529 SPACE PROPULSION Space Propulsion	AUT/1972 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/03/97		APPROVED: 9/18/69											
A A	530 MECHANICS OF SOLIDS Mechanics of Solids	AUT/1989 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/03/97													
				COMMENT:CHANGE DESCRIPTION													
A A	531 FRACTURE & SCALING Quasibrittle Fracture Mechanics and Scaling	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/28/19													
A A	532 MECH COMP MATERIALS Mechanics of Composite Materials	WIN/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/08/11													
				COMMENT:EMAIL PREQ CHG													
A A	533 MTRLS &PROCESS TECH Materials and Processing Technology of Aerospace Composites	WIN/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/05/17		APPROVED: 1/18/11											
				COMMENT:EMAIL PREQ CHG													
A A	534 COMPOSITE STRUCT Integrity of Composite Aircraft Structures	WIN/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/05/17		APPROVED: 9/15/09											
				COMMENT:EMAIL PREQ CHG													
A A	535 ADV COMPOSITE STRUC Advanced Composite Structural Analysis	SPR/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	A A	535 M E	500
				LAST UPDT: 2/29/12		APPROVED: 2/28/12											
A A	538 STRUCTURAL OPTIM Introduction to Structural Optimization	SUM/2008 - AUT/9999	3.0
				LAST UPDT: 5/21/08		APPROVED: 5/20/08											

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						-ALL	U		GRD	E	U	N	E	P	&	N			
A A	540	FINITE ELM ANLYS I Finite Element Analysis I	WIN/1984 -	AUT/9999	3.0
		COMMENT:CHANGE DESCRIPTION																	
A A	541	FINITE ELM ANLYS II Finite Element Analysis II	WIN/1984 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
		COMMENT:CHANGE DESCRIPTION																	
A A	543	COMPRESSIBLE CFD Computational Fluid Dynamics of Compressible Flows	WIN/2019 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
A A	544	INCOMPRESSIBLE CFD Computational Fluid Dynamics of Incompressible Flows	WIN/2019 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
A A	545	COMP MTHDS PLASMAS Computational Methods for Plasmas	SPR/2007 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
A A	546	ADV TPCS CTRL SYST Advanced Topics in Control System Theory	AUT/2005 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
A A	547	LINEAR SYSTEMS Linear Systems Theory	AUT/2018 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	E E	547 M E	547	.
																	E E	547	
A A	548	LIN MULTVAR CONTROL Linear Multivariable Control	AUT/2005 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	E E	548 M E	548	.
		COMMENT: CHG PREREQ															E E	548	
A A	549	ST EST & KALMAN FLTR Estimation and System Identification	AUT/2012 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	E E	549 M E	549	.
		COMMENT:EMAIL PREQ CHG															E E	549	
A A	550	NONLIN OPT CONTROL Nonlinear Optimal Control	AUT/2014 -	AUT/9999	3.0	E E	550 E E	550	.
		COMMENT:14-16 PREQ CHG															M E	550	

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						-ALL	U		GRD	E	U	N	E	P	&	N			
A A	551	AEROSPACE SYST II AEROSPACE SYSTEMS II	WIN/1970 -	AUT/9999	3.0
						LAST UPDT: 1/27/93													
A A	552	NLINEAR PRBS AEROEL NONLINEAR PROBLEMS IN AEROELASTICITY	AUT/1993 -	AUT/9999	3.0
						LAST UPDT:10/02/06 APPROVED: 3/29/93													
						COMMENT:WAS A A 557													
A A	553	VIBR AEROSPACE SYS Vibrations of Aerospace Systems	SPR/1983 -	AUT/9999	3.0
						LAST UPDT: 4/03/97													
A A	554	AEROELASTICITY Aeroelasticity	AUT/1993 -	AUT/9999	3.0
						LAST UPDT:10/02/06 APPROVED: 3/29/93													
						COMMENT:WAS A A 556													
A A	555	SPEC TPC AEROSP SYS SPECIAL TOPICS IN AEROSPACE SYSTEMS	AUT/1976 -	AUT/9999	3.0
						LAST UPDT:10/02/06													
A A	556	SPACE AND LAB PHYS Space and Laboratory Plasma Physics	AUT/2009 -	AUT/9999	3.0	ESS	576	ESS	576
						LAST UPDT: 3/21/16													
						COMMENT:UPDATE JT COURSE													
A A	557	PHYS FUSION PLASMAS Physics of Fusion Plasmas	SUM/1998 -	AUT/9999	3.0
						LAST UPDT: 2/03/98 APPROVED: 1/29/98													
A A	558	PLASMA THEORY Plasma Theory	SUM/1998 -	AUT/9999	3.0
						LAST UPDT: 2/02/98													
						COMMENT:REPLACES A A 557													
A A	559	PLASMA SCIENCE SMNR Plasma Science Seminar	SUM/1998 -	AUT/9999	1.0	30.0	.	CR/NC
						LAST UPDT: 5/16/13 APPROVED: 1/24/96													
						COMMENT:WAS A A 558, 5/2013 RETRO MAX													
A A	560	PLASMA DIAGNOSTICS Plasma Diagnostics	WIN/2007 -	AUT/9999	3.0
						LAST UPDT:12/13/06 APPROVED:12/13/06													

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					-ALL	U		GRD	E	U	N	E	P	&	N				C
A A	564 KIN THRY RADIAT TR Kinetic Theory/Radiative Transfer	AUT/2009 - AUT/9999	3.0	
					LAST UPDT: 4/20/09														
A A	565 FUSION REACTOR FNDR Fusion Reactor Fundamentals	WIN/1993 - AUT/9999	3.0	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
					LAST UPDT:10/02/06 APPROVED: 3/29/93														
A A	570 MANIFOLDS AND GEOM Manifolds and Geometry for Systems and Control	AUT/2007 - AUT/9999	3.0	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	A A	570 E E	570		
					LAST UPDT: 4/05/07 APPROVED: 2/21/07													M E 570	
A A	571 PRIN OF DYNAM I Principles of Dynamics I	AUT/1969 - AUT/9999	3.0	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
					LAST UPDT: 2/11/19														
A A	578 CONVEX OPTIMIZATION Convex Optimization	AUT/2017 - AUT/9999	4.0	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	E E	578 M E	578		
					LAST UPDT: 5/31/18 APPROVED: 3/29/05													CSE 578 E E 578	
A A	580 GEOMETRIC METHODS Geometric Methods for Non-Linear Control Systems	SPR/2007 - AUT/9999	3.0	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	A A	580 E E	580		
					LAST UPDT: 2/25/16 APPROVED: 2/21/07													M E 580	
A A	581 DIGITAL CONTROL SYS Digital Control System Design	WIN/2017 - AUT/9999	4.0	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	M E	581 E E	581		
					LAST UPDT: 6/13/16 APPROVED: 4/29/96													M E 581	
					FEE TYPE:1 \$50.00 BUDGET:069397 REV OBJ CD:943081														
A A	582 DISCRETE EVENT SYS Introduction to Discrete Event Systems	AUT/2005 - AUT/9999	3.0	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	M E	582 E E	582		
					LAST UPDT: 3/22/16 APPROVED: 4/29/96													M E 582	
					COMMENT:CHG TITLES, DESCRIPT, PREREQ														
A A	583 NONLINEAR CONTR SYS Nonlinear Control Systems	AUT/2005 - AUT/9999	3.0	E E	583 M E	583		
					LAST UPDT: 3/21/16													E E 583	
					COMMENT:CHANGED JOINT STATUS-NEW A A														

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				-ALL U	GRD	E	D							
A A	599 SPECIAL PROJECTS Special Projects	SPR/1976 - AUT/9999	1.0-05.0	30.0	Y
	COMMENT:5/2013 RETRO MAX													LAST UPDT: 5/16/13
A A	600 INDEPN DNT STDY/RSCH Independent Study or Research	SUM/1969 - AUT/9999	0.0	999.0	Y	.	11	LAST UPDT: 5/07/12
A A	700 MASTERS THESIS Master's Thesis	WIN/1963 - AUT/9999	0.0	999.0	Y	.	11	LAST UPDT: 5/07/12 APPROVED: 1/01/70
A A	800 DOCTORAL DISSERTATN Doctoral Dissertation	AUT/1970 - AUT/9999	0.0	999.0	Y	.	11	LAST UPDT: 5/07/12 APPROVED: 1/01/70

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				-ALL U	GRD		E	U N E	P	& N C M S N	A S W T P R G						
A E	501 ANALYTICAL METHODS Analytical Methods for Aerospace Engineering	AUT/2013 - AUT/9999	4.0
				LAST UPDT: 6/06/13		APPROVED: 6/04/13											
A E	510 LINEAR SYSTEMS Linear Systems Theory	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/19/14		APPROVED:11/18/14											
A E	511 CLASSICAL CONTROL Classical Control Theory	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/19/14		APPROVED:11/18/14											
A E	512 STABILITY & CONTROL Dynamics, Stability, and Control of Vehicles	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/19/14		APPROVED:11/18/14											
A E	513 MULTIVAR CTRL Multivariable Control	SUM/2018 - AUT/2020	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/19/19		APPROVED: 2/21/17											
A E	513 MULTIVAR CTRL Multivariable Control	WIN/2021 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/19/19		APPROVED: 2/21/17											
A E	514 ESTIMATION THEORY Estimation Theory	SUM/2018 - AUT/2020	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/19/19		APPROVED: 2/21/17											
A E	514 ESTIMATION THEORY Estimation Theory	WIN/2021 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/19/19		APPROVED: 2/21/17											
A E	519 AE TOPICS: CONTROLS Special Topics in Aerospace Engineering: Controls	AUT/2018 - AUT/9999	4.0	8.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/16/16		APPROVED:11/18/14											
A E	520 FUND FLUID DYNAMICS Fundamentals of Fluid Dynamics	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/08/15		APPROVED:11/18/14											
A E	521 AIRCRAFT PROPULSIONS Aircraft Propulsions	WIN/2018 - AUT/2020	4.0
				LAST UPDT: 7/19/19		APPROVED: 2/21/17											

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				-ALL U	GRD		E	U N E	P	& N C M S N	A S W T P R G						
A E	521 AIRCRAFT PROPULSIONS Aircraft Propulsions	WIN/2021 - AUT/9999	4.0
				LAST UPDT: 7/19/19		APPROVED: 2/21/17											
A E	522 ROCKET PROPULSION Rocket Propulsion	AUT/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/03/17		APPROVED: 11/18/14											
A E	523 AIRCRAFT NOISE Aircraft Noise	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 11/21/14		APPROVED: 11/18/14											
A E	524 COMPUT AERODYN Computational Aerodynamics	WIN/2018 - AUT/2020	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/15/19		APPROVED: 2/21/17											
A E	524 COMPUT AERODYN Computational Aerodynamics	WIN/2021 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/19/19		APPROVED: 2/21/17											
A E	529 AE TOPICS: FLUIDS Special Topics in Aerospace Engineering: Fluids	AUT/2018 - AUT/9999	4.0	8.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 12/16/16		APPROVED: 11/18/14											
A E	539 AE TOPICS: P/P/P Special Topics in Aerospace Engineering: Propulsion, Plasma, and Power	AUT/2014 - AUT/9999	4.0	8.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/31/17		APPROVED: 11/18/14											
A E	540 MECHANICS OF SOLIDS Mechanics of Solids	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 11/21/14		APPROVED: 11/18/14											
A E	541 FINITE ELM ANALYSIS Finite Element Analysis	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 11/21/14		APPROVED: 11/18/14											
A E	542 FATIGUE & FRACTURE Fatigue and Fracture in Aerospace Structures	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 11/21/14		APPROVED: 11/18/14											
A E	543 STRUCT VIBRATIONS Structural Vibrations	WIN/2018 - AUT/2020	4.0
				LAST UPDT: 8/15/19		APPROVED: 2/21/17											

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				-ALL U	GRD E							
A E	543 STRUCT VIBRATIONS Structural Vibrations	WIN/2021 - AUT/9999	4.0
				LAST UPDT: 7/19/19		APPROVED: 2/21/17						
A E	544 ADDITIVE MANUFACTUR Additive Manufacturing	SUM/2018 - AUT/2020	4.0	.	.	. . .	. . . . .					.
				LAST UPDT: 7/19/19		APPROVED: 2/21/17						
A E	544 ADDITIVE MANUFACTUR Additive Manufacturing	WIN/2021 - AUT/9999	4.0	.	.	. . .	. . . . .					.
				LAST UPDT: 7/19/19		APPROVED: 2/21/17						
A E	549 AE TOPICS: STRUC Special Topics in Aerospace Engineering: Structures	AUT/2018 - AUT/9999	4.0	8.0	.	. . .	. . . . .					.
				LAST UPDT:12/16/16		APPROVED:11/18/14						
A E	550 MECH OF COMPOSITES Mechanics of Composite Materials	AUT/2014 - AUT/9999	4.0	.	.	. . .	. . . . .					.
				LAST UPDT:11/21/14		APPROVED:11/18/14						
A E	551 AERO COMP DESIGN I Aerospace Composite Design I	WIN/2018 - AUT/2020	4.0	.	.	. . .	. . . . .					.
				LAST UPDT: 7/19/19		APPROVED: 2/21/17						
A E	551 AERO COMP DESIGN I Aerospace Composite Design I	WIN/2021 - AUT/9999	4.0	.	.	. . .	. . . . .					.
				LAST UPDT: 7/19/19		APPROVED: 2/21/17						
A E	552 AERO COMP DESIGN II Aerospace Composite Design II	WIN/2018 - AUT/2020	4.0	.	.	. . .	. . . . .					.
				LAST UPDT: 7/19/19		APPROVED: 2/21/17						
A E	552 AERO COMP DESIGN II Aerospace Composite Design II	WIN/2021 - AUT/9999	4.0	.	.	. . .	. . . . .					.
				LAST UPDT: 7/19/19		APPROVED: 2/21/17						
A E	553 ADV COMPOSITE STRUC Advanced Composite Structural Analysis	AUT/2014 - AUT/9999	4.0	.	.	. . .	. . . . .					.
				LAST UPDT:11/21/14		APPROVED:11/18/14						
A E	554 MANUFACT AERO COMP Manufacture of Aerospace Composites	WIN/2018 - AUT/2020	4.0
				LAST UPDT: 8/15/19		APPROVED: 2/21/17						

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COLLEGE : J - Engineering
 DEPARTMENT: AERONAUTICAL & ASTRO

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				-ALL	U		GRD	E	U		N	E	P	&			
A E	554 MANUFACT AERO COMP Manufacture of Aerospace Composites	WIN/2021 - AUT/9999	4.0
				LAST UPDT: 7/19/19		APPROVED: 2/21/17											
A E	559 AE TOPICS: COMPSTS Special Topics in Aerospace Engineering: Composites	AUT/2018 - AUT/9999	4.0	8.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/16/16		APPROVED:11/18/14											
A E	598 AERO ENG COLLOQUIUM Aerospace Engineering Colloquium	AUT/2013 - AUT/9999	1.0	30.0	.	CR/NC
				LAST UPDT: 1/15/14		APPROVED: 6/04/13											

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COLLEGE : J - Engineering
 DEPARTMENT: CHEMICAL ENGR

COURSE CURRIC NUM	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 MAX	U P		GRD SYS	E D	U M	N R	E E	P A	& S	N W				C T	M P	S R	G
CHEM E 198	CAREER PLANNING II CAREER PLANNING II	SPR/1972 - AUT/9999	1.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/02/06		APPROVED:11/11/71											
CHEM E 299	UNDERGRAD RESEARCH Undergraduate Research	SPR/2012 - AUT/9999	1.0-03.0	9.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/17/15		APPROVED:12/20/11											
CHEM E 301	LEADERSHIP SEMINAR Leadership Seminar	AUT/2008 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/14/07		APPROVED: 3/13/07											
CHEM E 309	CREAT INNOVATION Creativity and Innovation	AUT/2010 - AUT/9999	2.0	.	.	.	.	.	Y	.	.	.	.	BSE	309	BSE	309
				LAST UPDT: 6/16/10		APPROVED:11/22/82											
				COMMENT:CHG JT STATUS													
CHEM E 310	MATERL & ENRGY BAL Material and Energy Balances	SPR/2011 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/25/11		APPROVED: 3/27/80											
				COMMENT:EMAIL PREQ CHG													
CHEM E 325	ENERGY AND ENTROPY Energy and Entropy	AUT/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/13/12		APPROVED: 6/16/09											
				COMMENT:12-13 PREQ CHG													
CHEM E 326	CH E THERMODYNAMICS Chemical Engineering Thermodynamics	AUT/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/13/12		APPROVED: 2/01/72											
				COMMENT:12-14 PREQ CHG													
CHEM E 330	TRANSPORT PROCESS I Transport Processes I	WIN/2007 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/02/06													
				COMMENT:CHG CRS													
CHEM E 340	TRANSP PROCESS II Transport Processes II	WIN/1990 - AUT/9999	4.0
				LAST UPDT:10/02/06													
				COMMENT:CHG CREDITS													

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COLLEGE : J - Engineering
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COURSE CURRIC NUM	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 MAX	U P		GRD SYS	E D	U M	N R	E E	P A	& S	N W				C T	M P	S R	G
CHEM E 341	ENERGY & ENVIRON Energy and Environment	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	CHEM E341 M E	341	.
	COMMENT:CHG RESP DEPT																ENVIR	341
CHEM E 345	INTRO FUEL CELLS INTRODUCTION TO FUEL CELLS	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:12-14 PREQ CHG																	
CHEM E 355	BIO FOR ENGINEERS Biological Frameworks for Engineers	WIN/2015 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:EMAIL PREQ CHG																	
CHEM E 375	CH E COMPUTR SKILLS Chemical Engineering Computer Skills	WIN/2010 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:CHG GRADING																	
CHEM E 434	PHYSIO PROC NANOMED Physiological Processes in Engineering Nanomedicine	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.			.
CHEM E 435	TRANSP PROCESS III Transport Processes III	AUT/1973 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.			.
CHEM E 436	CHEM ENGR LAB I Chemical Engineering Laboratory I	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:12-14 PREQ CHG																	
CHEM E 437	CHEM ENGR LAB II Chemical Engineering Laboratory II	WIN/1974 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.			.
CHEM E 440	ENERGY MAT DEV & SYS Energy Materials, Devices, and Systems	AUT/2017 - SUM/2020	3.0	.	.	.	.	.	.	.	.	.	.	.	.	CHEM 466 MSE	466	.
																	CHEM	466
CHEM E 440	ENERGY MAT DEV & SYS Energy Materials, Devices, and Systems	AUT/2020 - AUT/9999	3.0	CHEM 466 MSE	466	.
																	CHEM	466

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COLLEGE : J - Engineering
 DEPARTMENT: CHEMICAL ENGR

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			
CHEM E 468	AIR P CONT DESIGN Air-Pollution Control	SUM/2000 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	CEE	494 M E	468	.
				LAST UPDT: 5/30/19		APPROVED:12/01/99								CEE	494		
CHEM E 480	PROC DYNM & CONTRL Process Dynamics and Control	WIN/2008 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.				.
	COMMENT:CHG DESC			LAST UPDT: 6/21/07													
CHEM E 481	PROCESS OPTIMIZATN Process Optimization	SPR/1968 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.				.
				LAST UPDT: 6/06/06													
CHEM E 482	ADVANCED CONTROL Advanced Topics in Process Control	SPR/1988 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.				.
				LAST UPDT: 3/14/94		APPROVED:12/01/87											
CHEM E 484	ELECTRONIC POLYMERS Electronic and Optoelectronic Polymers	AUT/2003 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.				.
	COMMENT:CONVERSION OF TEMP COURSE			LAST UPDT: 6/26/03		APPROVED: 6/25/03											
CHEM E 485	PROCESS DESIGN I Process Design I	WIN/2008 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.				.
	COMMENT:CHG DESC			LAST UPDT: 6/21/07		APPROVED: 4/01/80											
CHEM E 486	PROCESS DESIGN II Process Design II	AUT/2012 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.				.
	COMMENT:12-14 DESC CHG			LAST UPDT: 7/13/12													
CHEM E 490	ENG MATLS BIOMED AP Engineering Materials for Biomedical Applications	SPR/1978 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	BIOEN 490	BIOEN 490		.
	COMMENT:NEW DESCRIPTION			LAST UPDT:10/02/06		APPROVED: 9/23/71											
CHEM E 491	CONTROLLED REL SYS Controlled-Release Systems	WIN/2015 - AUT/9999	3.0	BIOEN 491	BIOEN 491		.
	COMMENT:CHANGE TITLES			LAST UPDT: 4/16/14		APPROVED:11/17/77											

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COURSE CURRIC NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D		D	S H F			V L E E W L I E C Q T P & N C M S N					RESPONS COURSE	JOINT COURSES	O M I T
				-ALL U	GRD		U	N	E	P	A	S	N	C				M	S	N
CHEM E 493	ADV SURFACE ANLYS Advanced Surface Analysis	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	BIOEN 493	BIOEN 493	.
				LAST UPDT: 4/18/12		APPROVED: 4/17/12											
CHEM E 497	DESIGN SPEC PROJ Special Projects in Chemical Engineering Design	SPR/1998 - AUT/9999	1.0-06.0	12.0	.	.	11	.	.	.	.	.	.	.			.
				LAST UPDT: 4/24/98		APPROVED: 3/31/98											
CHEM E 498	SPECIAL TOPICS Special Topics in Chemical Engineering	WIN/1980 - AUT/9999	1.0-04.0	12.0	Y	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:10/02/06		APPROVED: 6/07/79											
				COMMENT:RICHLAND ADDED 01-24-1980													
CHEM E 499	UNDERGRAD RESEARCH Undergraduate Research	SPR/1988 - AUT/9999	1.0-06.0	12.0	Y	.	11	.	.	.	.	.	.	.			.
				LAST UPDT:10/02/06													
				COMMENT:CHG PREQS													
CHEM E 510	MATH FOUND SYST THR Mathematical Foundations of Systems Theory	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	E E 510 A A	510	.
				LAST UPDT: 7/31/14		APPROVED:10/24/91											
				COMMENT:14-16 PREQ CHG													
CHEM E 511	BIOMATERIAL SEMINAR Biomaterials Seminar	SPR/2010 - AUT/9999	1.0	18.0	.	CR/NC	.	.	.	.	.	.	.	.	BIOEN 511	BIOEN 511	.
				LAST UPDT: 3/21/16		APPROVED: 1/24/85											
				COMMENT:CHG MAX CREDITS													
CHEM E 512	METH OF ENGR ANALYS Methods of Engineering Analysis	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 6/09/17		APPROVED: 5/14/97											
CHEM E 514	ADV CHEME LAB Advanced Chemical Engineering Laboratory	WIN/2015 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:12/17/14		APPROVED:12/16/14											
CHEM E 515	EXPERIMENTL METHODS Experimental Methods in Chemical Engineering Research	AUT/2003 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 6/26/03		APPROVED: 6/25/03											
CHEM E 523	SMNR IN CHEM ENGR Seminar in Chemical Engineering	AUT/1984 - AUT/9999	0.0-01.0	30.0	.	CR/NC
				LAST UPDT: 5/02/13		APPROVED: 5/23/69											
				COMMENT:CHG CREDITS, 5/2013 RETRO MAX													

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COLLEGE : J - Engineering
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				-ALL	U		GRD	E	U	N	E	P	& N	C				M	S
CHEM E 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		546	.
CHEM E 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		547	.
CHEM E 554	NANOSCALE SCI I Nanoscale Science I: Contact Mechanics and Rheology	SPR/1998 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	on the Nanoscale			.
				LAST UPDT: 1/30/98		APPROVED:10/23/97												.	
CHEM E 555	INTERFACL PHENOMENA Interfacial Phenomena	WIN/1984 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.				.
				LAST UPDT:10/02/06														.	
				COMMENT:RTRN CHG CREDITS													.		
CHEM E 556	COLLOIDAL SYSTEMS Colloidal Systems	SPR/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.				.
				LAST UPDT: 2/26/14		APPROVED: 3/02/72												.	
				COMMENT:CHG TITLES, CREDITS, DESC													.		
CHEM E 557	RES INTERF COLL SCI RESEARCH IN INTERFACIAL AND COLLOID SCIENCE	AUT/1997 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.				.
				LAST UPDT:12/11/12		APPROVED: 4/15/97												.	
CHEM E 558	SURFACE ANALYSIS Surface Analysis	WIN/1985 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	BIOEN 592	BIOEN 592	.	
				LAST UPDT:10/17/00		APPROVED:10/25/84												.	
CHEM E 560	REACTNS AT SURFACES Reactions at Solid Surfaces	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.				.
				LAST UPDT: 7/13/12		APPROVED:12/17/87												.	
				COMMENT:12-14 DESC, PREQ CHG													.		
CHEM E 561	ELECTRONS AT SURFS ELECTRONS AT SURFACES	WIN/1997 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.				.
				LAST UPDT:11/25/96		APPROVED:11/18/96												.	
CHEM E 564	APPL CHEM KINETICS APPLICATIONS OF CHEMICAL KINETICS	AUT/1982 - AUT/9999	3.0		
				LAST UPDT:12/11/12		APPROVED: 2/18/71												.	
				COMMENT:CHG DESC													.		

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COLLEGE : J - Engineering
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				-ALL U	GRD								
CHEM E 565	KINETIC & CATALYSIS Kinetics and Catalysis	WIN/1978 - AUT/9999	3.0
				LAST UPDT: 0/00/00									
CHEM E 566	GAS AIR POLL CONT CONTROL OF GASEOUS AIR POLLUTANTS	WIN/2001 - AUT/9999	3.0	.	.	.	.	.	.	.	CHEM E566	CEE	558
	COMMENT:CHG JT STATUS			LAST UPDT: 2/07/14 APPROVED:12/01/83									
CHEM E 567	PART AIR POLL CONT CONTROL OF PARTICULATE AIR POLLUTANTS	WIN/2001 - AUT/9999	3.0	.	.	.	.	.	.	.	CHEM E567	CEE	559
				LAST UPDT: 6/21/17 APPROVED:12/15/83									
CHEM E 570	HIGH POLYMERS CHEMISTRY OF HIGH POLYMERS	SPR/1972 - AUT/9999	3.0	6.0	Y	.	.	.	.	.	.	.	.
				LAST UPDT: 8/02/13									
CHEM E 571	POLY PHYS ENGR POLYMER PHYSICS AND ENGINEERING	SPR/1978 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 0/00/00 APPROVED:10/01/77									
CHEM E 572	ADV POLY COMP ADVANCED POLYMERIC COMPOSITES	AUT/1982 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 0/00/00 APPROVED: 2/01/82									
CHEM E 575	NONLINEAR ANALYSIS NONLINEAR ANALYSIS IN CHEMICAL ENGINEERING	SPR/1974 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG TITLES, CREDITS			LAST UPDT:12/11/12 APPROVED: 5/23/63									
CHEM E 580	TOPICS CH E DESIGN Topics in Chemical Engineering Design	AUT/2012 - AUT/9999	3.0	9.0	Y	.	.	.	.	.	.	.	.
	COMMENT:12-14 DESC CHG			LAST UPDT: 9/17/12 APPROVED: 3/28/74									
CHEM E 582	ADVANCED CONTROL ADVANCED TOPICS IN PROCESS CONTROL	SPR/1988 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/04/05 APPROVED:12/01/87									
CHEM E 584	ELECTRONIC POLYMERS Electronic and Optoelectronic Polymers	AUT/2003 - AUT/9999	3.0
	COMMENT:CONVERSION OF TEMP COURSE			LAST UPDT: 6/26/03 APPROVED: 6/25/03									

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COLLEGE : J - Engineering
 DEPARTMENT: CIVIL & ENV ENGINEERING

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				-ALL	U		GRD	E	U	N	E	P	&	N			
CEE 101	AMAZING INFRASTR Amazing Infrastructure, its Impacts and the Roles of Civil and Environmental Engineers	AUT/2018 - AUT/9999	1.0
				LAST UPDT: 4/19/18		APPROVED: 4/17/18											
CEE 102	CEE CAREERS Civil and Environmental Engineering and Careers--Companies and Agencies	WIN/2019 - AUT/9999	1.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/19/18		APPROVED: 4/17/18											
CEE 103	ENG NAT AND HUM DIS Engineering for Natural and Human Caused Disasters	SPR/2019 - AUT/9999	1.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/23/18		APPROVED: 3/20/18											
CEE 220	INTRO MECH OF MATLS Introduction to Mechanics of Materials	AUT/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.
				LAST UPDT: 7/10/12		APPROVED: 12/01/99											
				COMMENT:12-14 PREQ & DESC CHG													
CEE 250	ENVIRON PROCESSES Environmental Processes and flows	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.
				LAST UPDT: 9/06/12		APPROVED: 1/20/09											
				COMMENT:CHG TTLS, DESC, CREDITS, PREQ													
CEE 291	AUTOCAD Introduction to AutoCAD for Civil Engineers	WIN/2019 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.
				LAST UPDT: 2/03/17		APPROVED: 2/17/15											
				COMMENT:END INITIAL DL													
CEE 297	FOREIGN STUDY Foreign Study	SPR/2011 - AUT/9999	3.0-05.0	15.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 12/21/10		APPROVED: 12/21/10											
CEE 298	SPEICAL TOPICS Special Topics in Civil and Environmental Engineering	AUT/2012 - AUT/9999	1.0-05.0	10.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/16/12		APPROVED: 5/15/12											
CEE 299	INDEPENDENT PROJECT Independent Project	SPR/2011 - AUT/9999	1.0-05.0	10.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 12/21/10		APPROVED: 12/21/10											
CEE 306	CONSTRUCT ENGR I CONSTRUCTION ENGINEERING I	AUT/2005 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.
				LAST UPDT: 2/07/14		APPROVED: 12/01/99											
				COMMENT:CHANGE DESCRIPTION													
				FEE TYPE:1		\$25.00		BUDGET:069327 REV OBJ CD:943081									

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COLLEGE : J - Engineering
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				-ALL U	GRD		E	U N E	P & A	N & S	C & W	M & T	S & P	R & R			
CEE 377	INTRO STRUCT DESIGN Introduction to Structural Design	AUT/2012 - AUT/9999	5.0
				LAST UPDT: 6/20/12		APPROVED: 6/19/12											
CEE 379	ELEM STRUC I ELEMENTARY STRUCTURES I	AUT/2008 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:PREQ CHG PER 08-10 UPDATE			LAST UPDT: 2/07/14		APPROVED:12/01/99											
CEE 380	ELEM STRUCT II ELEMENTARY STRUCTURES II	SPR/2003 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:EMAIL PREREQ CHG			LAST UPDT: 2/07/14		APPROVED:12/01/99											
CEE 390	CIVIL ENGR SYSTEMS CIVIL ENGINEERING SYSTEMS	AUT/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:EMAIL PREQ CHG			LAST UPDT: 2/07/14		APPROVED:12/01/99											
CEE 391	COMPUTER-AIDED DES GRAPHICS COMMUNICATION AND COMPUTER-AIDED DESIGN	AUT/2010 - AUT/9999	3.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
	COMMENT:10-12 PREQ CHG			LAST UPDT: 2/07/14		APPROVED: 7/13/05		FEE TYPE:1 \$50.00 BUDGET:069644 REV OBJ CD:943081									
CEE 392	BASIC CEE COMPUTING BASIC CIVIL ENGINEERING COMPUTING	AUT/2008 - AUT/9999	1.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:PREQ CHG PER 08-10 UPDATE			LAST UPDT: 2/07/14		APPROVED: 8/24/05											
CEE 401	PAVE DESIGN ROADS Pavement Design for Roads	WIN/2019 - AUT/9999	1.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/15/18		APPROVED:11/13/18											
CEE 402	ENER INFRASTRUCTURE Energy Infrastructure	WIN/2019 - AUT/9999	1.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/15/18		APPROVED:11/13/18											
CEE 404	INFRASTRUCTURE CONS Infrastructure Construction	AUT/2014 - AUT/9999	4.0
	COMMENT:14-16 DESC CHG			LAST UPDT: 7/23/14		APPROVED: 1/25/06											

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				-ALL U	GRD		U N E	P	& N C M S N	A S W T P R G							
CEE 405	TRAFFIC SIMULATION Traffic Simulation	SPR/2018 - AUT/9999	3.0
				LAST UPDT:12/21/17		APPROVED:12/19/17											
CEE 409	ENGR ROME: STDY ABRD Engineering Rome: Study Abroad	SPR/2015 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG CREDITS, HYPHEN			LAST UPDT:12/16/14		APPROVED: 5/15/12											
CEE 410	TRAFFIC ENGR FUND Traffic Engineering Fundamentals	AUT/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:EMAIL PREQ CHG			LAST UPDT: 2/07/13		APPROVED:12/01/99											
CEE 412	TRANSP DATA MGMT VIS Transportation Data Management and Visualization	WIN/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/22/19		APPROVED: 1/31/05											
CEE 413	TRANS TECH AND SYS TRANSPORTATION TECHNOLOGIES AND SYSTEMS	SUM/2000 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:WAS CIVE 413			LAST UPDT:10/05/06		APPROVED:12/01/99											
CEE 416	URBAN TRAN PLG/DES Urban Transportation Planning and Design	AUT/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:EMAIL PREQ CHG			LAST UPDT: 2/07/13		APPROVED:12/01/99											
CEE 417	URB TRANS DMND FORE URBAN TRANSPORTATION DEMAND FORECASTING	SUM/2000 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:WAS CIVE 417			LAST UPDT:10/05/06		APPROVED:12/01/99											
CEE 418	COMP-AIDED PLAN Computer-Aided Planning of Urban Systems	SUM/2000 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	CEE 418	URBDP 429	.	.
	COMMENT:WAS CIVE 418			LAST UPDT: 5/30/19		APPROVED: 6/29/78											
CEE 420	ENGR DEVLPING COMM Engineering with Developing Communities	SPR/2015 - AUT/9999	3.0
				LAST UPDT: 1/07/15		APPROVED:12/16/14											

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				-ALL U	GRD		U	GRD	E	U N E	P & N C M S N	A S W T P R G					
CEE 421	PAVEMENT DES&CONST Pavement Design and Construction	SPR/2017 - AUT/9999	4.0
				LAST UPDT: 8/07/18		APPROVED:12/01/99											
CEE 422	ENERGY AND TRANS Energy and Transportation	SPR/2015 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/17/14		APPROVED:12/16/14											
CEE 424	GIS FOR CIV ENGRS GIS for Civil Engineers	AUT/2015 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/23/15		APPROVED: 4/25/05											
CEE 425	REINF CONC CONST Reinforced Concrete Construction	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:14-16 PREQ CHG			LAST UPDT: 7/23/14		APPROVED: 2/27/04											
CEE 426	BDRY SURV/PLAT DSGN BOUNDARY SURVEYS AND PLAT DESIGN	SUM/2000 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:WAS CIVE 426			LAST UPDT:10/05/06		APPROVED:12/01/99											
CEE 427	CONSTR SURV CONTROL CONSTRUCTION SURVEY CONTROL	SUM/2000 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:WAS CIVE 427			LAST UPDT:10/05/06		APPROVED:12/01/99											
CEE 428	CEMENT COMPOSITES Lightweight Cementitious Composites	AUT/2012 - AUT/9999	0.0-02.0	2.0	.	.	11	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG DESC			LAST UPDT: 5/14/13		APPROVED: 5/17/06											
CEE 429	SUST BLDG INFRA Sustainability in Building Infrastructure	AUT/2015 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/23/15		APPROVED: 2/17/15											
CEE 430	PROF PRACT ISSUES ISSUES IN PROFESSIONAL ENGINEERING PRACTICE	SUM/2000 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.	.	.	.	.
	COMMENT:WAS CIVE 430			LAST UPDT:10/05/06		APPROVED:12/01/99											
CEE 431	SEIS & EARTHQKE ENGR Seismology and Earthquake Engineering	AUT/2012 - AUT/9999	3.0	Y	.	.	.	CEE 431 ESS	465	.	.
	COMMENT:UPDATE PREQ			LAST UPDT: 2/06/18		APPROVED:12/01/99											

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					-ALL	U		GRD	E	U	N	E	P	& N	C				M	S
CEE 432	ADV REMOTE SENSING Advanced Remote Sensing and Earth Observation	WIN/2020 - AUT/9999		4.0	Y	.	Y	CEE 432	ESRM 432	.			
					LAST UPDT: 9/27/19		APPROVED: 9/17/19													
CEE 436	FNDN DESIGN Foundation Design	AUT/2013 - AUT/9999		3.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:EMAIL PREQ CHG				LAST UPDT: 2/07/13		APPROVED:12/01/99													
CEE 437	ENGINEER GEOLOGY I Engineering Geology I	AUT/2008 - AUT/9999		3.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:CHG DESC PER 08-10 UPDATE				LAST UPDT: 5/30/19		APPROVED:12/01/99													
CEE 440	PROF PRAC STUDIO Professional Practice Studio	AUT/2005 - AUT/9999		2.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:CHANGE TITLES				LAST UPDT:10/05/06		APPROVED:12/01/99													
CEE 441	TRANS CONST CPSTONE Transportation and Construction Capstone Design Project	WIN/2020 - AUT/9999		5.0	.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 1/03/20		APPROVED:12/01/99													
CEE 442	STRUCT GEO CAPSTONE Structural Geotechnical Capstone Design Project	WIN/2020 - AUT/9999		5.0	.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 1/03/20		APPROVED:12/01/99													
CEE 444	HYDRAULIC CAPSTONE Water Resources and Hydraulic Engineering Capstone Design Project	WIN/2020 - AUT/9999		5.0	.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 1/03/20		APPROVED:12/01/99													
CEE 445	ENV ENG DES CAPSTONE Environmental Engineering Capstone Design Project	WIN/2020 - AUT/9999		5.0	.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 1/03/20		APPROVED:12/20/99													
CEE 451	DES MET STRUC Design of Metal Structures	AUT/2014 - AUT/9999		3.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:14-16 PREQ CHG				LAST UPDT: 7/23/14		APPROVED:12/01/99													
CEE 452	DES REINF CONCR STR Design of Reinforced Concrete Structures	AUT/2014 - AUT/9999		3.0	.	.	.	.	Y	.	.	.	.	.			.
	COMMENT:14-16 PREQ CHG				LAST UPDT: 6/29/15		APPROVED:12/01/99													

FEE TYPE:1 \$105.00 BUDGET:069644 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					
CEE 472	HYDR IN WATER RSRCS Introduction to Hydraulics in Water Resources	AUT/2013 - AUT/9999	3.0	
		COMMENT:EMAIL PREQ CHG					LAST UPDT: 5/30/19			APPROVED:12/01/99							
CEE 473	COASTAL ENGRNG I Coastal Engineering I	AUT/2014 - AUT/9999	3.0	.	.	.	.	Y	.	.	.	.	.			.
		COMMENT:14-16 DESC CHG		FEE TYPE:1		\$35.00	BUDGET:069644			REV OBJ CD:943081							
CEE 474	SEDIMENT TRANSPORT Hydraulics of Sediment Transport	AUT/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
		COMMENT:EMAIL PREQ CHG					LAST UPDT: 2/07/13			APPROVED:12/01/99							
CEE 475	GROUNDWATER FLOW Analysis Techniques for Groundwater Flow	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
		COMMENT:14-16 DESC					LAST UPDT: 7/23/14			APPROVED:12/01/99							
CEE 476	PHYSICAL HYDROLOGY Physical Hydrology	AUT/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
		COMMENT:EMAIL PREQ CHG					LAST UPDT: 2/07/13			APPROVED:12/01/99							
CEE 477	OPEN-CHANNEL FLOW Open-Channel Flow	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
		COMMENT:14-16 DESC, TITLE CHG					LAST UPDT: 7/23/14			APPROVED:12/01/99							
CEE 478	WATER SYS MANAG & OP Water Systems Management and Operations	SPR/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
							LAST UPDT: 1/25/18			APPROVED: 1/23/18							
CEE 480	AIR QLTY MODELING Air-Quality Modeling	AUT/2015 - AUT/9999	3.0	.	.	.	.	Y	.	Y	.	.	.	CEE 480 ATM S 480	.	.
		COMMENT:EMAIL PREQ CHG		FEE TYPE:1		\$50.00	BUDGET:069644			REV OBJ CD:943081							
CEE 481	HYDR DESIGN ENV ENG Hydraulic Design for Environmental Engineering	WIN/2020 - AUT/9999	3.0	
							LAST UPDT: 1/03/20			APPROVED:12/01/99							

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				-ALL	U	GRD	E	U	N	E	P	&	N	C			
CEE 482	WASTEWTR REUSE/REC Wastewater Reuse and Resource Recovery	WIN/2020 - AUT/9999	3.0
LAST UPDT: 1/16/20 APPROVED:12/01/99																	
CEE 483	DRINKING WTR TRTMT Drinking Water Treatment	WIN/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
LAST UPDT: 1/16/20 APPROVED: 8/14/02																	
CEE 484	ON-SITE WASTE MGMT Decentralized and On-Site Wastewater Management and Reuse	WIN/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
LAST UPDT: 1/16/20 APPROVED:12/01/99																	
CEE 487	SOLID WASTE DISPOSAL Solid-Waste Disposal	SUM/2000 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
COMMENT:WAS CIVE 487																	
LAST UPDT: 5/30/19 APPROVED:12/01/99																	
CEE 488	HAZARDOUS WAST ENGR Hazardous Waste Engineering	WIN/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
LAST UPDT: 1/16/20 APPROVED:12/01/99																	
CEE 489	WAT AIR SAMPLING Water and Air Quality Sampling	SUM/2000 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.			.
COMMENT:WAS CIVE 489																	
LAST UPDT:10/12/06 APPROVED:12/01/99																	
CEE 490	AIR POLL CONTROL Air-Pollution Control	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	CEE 490 ENV H 461		.
COMMENT:14-16 DESC CHG																	
LAST UPDT: 7/23/14 APPROVED:12/01/99																	
CEE 491	DETERMINISTIC SYS Deterministic Systems	SPR/2011 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
COMMENT:EMAIL PREQ CHG																	
LAST UPDT: 2/18/11 APPROVED:12/01/99																	
CEE 492	STOCHASTIC SYSTEMS Stochastic Systems	SUM/2000 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
COMMENT:WAS CIVE 492																	
LAST UPDT: 5/30/19 APPROVED:12/01/99																	
CEE 493	AIR POL SOURCE TEST Air-Pollution Source Testing and Equipment Evaluation	AUT/2008 - AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.	.			.
COMMENT:CHG DESC PER 08-10 UPDATE																	
LAST UPDT: 5/30/19 APPROVED:12/01/99																	
FEE TYPE:1 \$50.00 BUDGET:069644 REV OBJ CD:943081																	

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				-ALL U	GRD		U N E	P	& N C M S N	A S W T P R G							
CEE 494	AIR P CONT DESIGN Air-Pollution Control Equipment Design	SUM/2000 - AUT/9999	3.0	CEE 494 M E 468	468	.	
COMMENT:WAS CIVE 494				LAST UPDT: 5/30/19		APPROVED:12/01/99					CHEM E 468						
CEE 495	DESIGN FOR ENVIR Sustainability and Design for Environment	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	M E 415 M E 415	415	.
COMMENT:CHG JT STATUS				LAST UPDT: 8/12/09		APPROVED: 5/21/01					ENVIR 415						
CEE 496	CHEM FATE & TRANSP Fate and Transport of Chemicals in the Environment	AUT/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 9/17/13		APPROVED: 9/17/13											
CEE 497	JORDAN STUDY ABROAD Engineering Jordan: Water in an Arid Land Study Abroad	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 2/22/18		APPROVED: 2/19/13											
CEE 498	SPECIAL TOPICS Special Topics	AUT/2014 - AUT/9999	1.0-05.0	12.0	Y	.	.	Y	.	.	.	.	.			.
COMMENT:CHG CREDITS, DESC				LAST UPDT: 6/04/14		APPROVED:12/01/99					FEE TYPE:1 \$50.00 BUDGET:069327 REV OBJ CD:943081						
CEE 499	INDPNDT STUDY/RSCH Independent Study/Research	AUT/2014 - AUT/9999	1.0-05.0	12.0	Y	.	.	.	.	.	.	.	.			.
COMMENT:CHG TTLS, DESC, CREDITS				LAST UPDT: 6/04/14		APPROVED:12/01/99											
CEE 500	CEE SEMINARS Civil and Environmental Engineering Seminars	AUT/2000 - AUT/9999	1.0	3.0	.	CR/NC	.	.	.	.	.	.	.			.
				LAST UPDT: 8/30/00		APPROVED: 6/28/00											
CEE 521	SEEPAGE AND CONSOL Seepage and Consolidation	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
COMMENT:14-16 PREQ CHG				LAST UPDT: 7/23/14		APPROVED: 8/23/00											
CEE 522	SHEAR STR SLOP STAB Shear Strength and Slope Stability	AUT/2014 - AUT/9999	3.0	
COMMENT:14-16 PREQ CHG				LAST UPDT: 7/23/14		APPROVED: 8/23/00											

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				-ALL U	GRD		U N E	P	& N	C M	S N	A S	W T	P R			
CESG 501	STR MECHANICS Structural Mechanics	SPR/2019 - AUT/9999	4.0
				LAST UPDT:10/17/18		APPROVED: 1/28/00											
CESG 502	STR DYNAMICS Structural Dynamics	WIN/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/17/18		APPROVED: 1/28/00											
CESG 503	ADV STRUCTURES I Advanced Structures I	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/25/18		APPROVED: 1/23/18											
CESG 504	FINITE ELEM METHODS Finite Element Methods in Structural Mechanics	SPR/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/17/18													
CESG 505	ENGR COMPUTING Engineering Computing	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/27/17		APPROVED: 3/13/07											
CESG 506	NONLNR ANLY STR SYS Nonlinear Analysis of Structural Systems	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/11/17		APPROVED: 3/13/07											
CESG 507	STRUC STABILITY Structural Stability	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/11/17		APPROVED:11/17/15											
CESG 508	MATERIALS MODELING Materials Modeling	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/11/17		APPROVED: 1/28/00											
CESG 509	RELIABILITY & DESGN Reliability and Design	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/27/17		APPROVED: 8/23/00											
CESG 521	ADV REINF CONCRETE Advanced Reinforced Concrete	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/27/17		APPROVED: 1/28/00											
CESG 522	PRESTR CONCRETE DSGN Analysis and Design of Prestressed Concrete	WIN/2018 - AUT/9999	3.0
				LAST UPDT:12/26/17		APPROVED:12/19/17											

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				-ALL U	GRD		E	U N E	P & N		C M S N	A S W T	P R G				
CESG 523	ADV STRUCTURAL SYS Advanced Structural Systems	AUT/2017 - AUT/9999	3.0
				LAST UPDT:10/11/17		APPROVED: 1/28/00											
CESG 524	ADVANCED STEEL I Advanced Steel I	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/11/17		APPROVED: 1/28/00											
CESG 526	EARTHQUAKE ENGR I Earthquake Engineering I	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/11/17		APPROVED: 8/23/00											
CESG 527	EARTHQUAKE ENGR II Earthquake Engineering II	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/27/17		APPROVED: 8/23/00											
CESG 528	WIND ENGR DESIGN Wind Engineering Design	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/11/17		APPROVED: 1/28/00											
CESG 529	BRIDGE ENGINEERING Bridge Engineering	SUM/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/22/18		APPROVED: 2/20/18											
CESG 561	ADV SOIL MECHANICS Advanced Soil Mechanics	AUT/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/09/18		APPROVED: 6/06/17											
CESG 562	ADV GEOTECH LAB Advanced Geotechnical Laboratory	SPR/2019 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/15/18		APPROVED: 8/23/00											
CESG 563	PHYSICHEM SOIL BEHAV Physicochemical Aspects of Soil Behavior	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/22/19		APPROVED: 3/19/19											
CESG 564	COMP GEOMECHANICS Computational Geomechanics	WIN/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/21/17		APPROVED:12/19/17											
CESG 565	SOIL DYNAMICS Soil Dynamics	WIN/2019 - AUT/9999	3.0
				LAST UPDT:11/09/18		APPROVED: 8/23/00											

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				-ALL	U		GRD	E	U	N	E	P	&	N			
CESG 566	SLOPE STABL LANDSLID Slope Stability and Landslides	SUM/2019 - AUT/9999	3.0
				LAST UPDT:12/19/18		APPROVED:12/18/18											
CESG 567	ADV FOUNDATION ENG Advanced Foundation Engineering	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/15/18		APPROVED:12/19/17											
CESG 568	GEOTECH EQ ENG Geotechnical Earthquake Engineering	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/19/18		APPROVED: 8/23/00											
CESG 569	GEOLOGICAL ENG Geological Engineering	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/19/18		APPROVED:12/18/18											
CESG 570	GEOSYSTEMS ENG Geosystems Engineering	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/15/18		APPROVED:11/13/18											
CESG 571	GEOTECH CASE HIST Geotechnical Case Histories	WIN/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/19/18		APPROVED:12/18/18											
CESG 599	SPECIAL TOPICS Special Topics in Structural and Geotechnical Engineering	WIN/2018 - AUT/9999	1.0-05.0	20.0
				LAST UPDT: 8/07/18		APPROVED:12/19/17											

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				-ALL U	GRD		E	U N E	P	& N C M S N	A S W T P R G						
CESI 501	DIS RENEW POWER Distributed Renewable Power Systems	WIN/2019 - AUT/9999	3.0
				LAST UPDT:10/25/17		APPROVED: 4/18/17											
CESI 502	GEOMATICS Geomatics in Energy Infrastructure	WIN/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/25/17		APPROVED: 4/18/17											
CESI 503	OPERATION PWR PLT Operation of a Power Plant	WIN/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/25/17		APPROVED: 4/18/17											
CESI 504	BLDG LEED ENERGY Buildings, LEED, and Energy Use	WIN/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/25/17		APPROVED: 4/18/17											
CESI 505	AIR POLL CNTRL Air Pollution Control and Occupational Safety and Health	WIN/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/25/17		APPROVED: 4/18/17											
CESI 506	MANAG OF HAZ WASTE Management of Site Remediation, Hazardous Waste, and On-Site Treatment	WIN/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/25/17		APPROVED: 4/18/17											
CESI 508	ACC & FIN CONSTR Accounting and Finance for Construction	WIN/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/22/16		APPROVED:11/15/16											
CESI 509	ENGR ROME: STDY ABRD Engineering Rome: Study Abroad	WIN/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/26/17		APPROVED: 5/15/12											
CESI 510	ELECTRIC GRIDS Electric Grids	WIN/2019 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/25/17		APPROVED: 4/18/17											
CESI 511	GRID INTEGRATION Grid Integration of Variable Sources of Generation	WIN/2019 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/25/17		APPROVED: 4/18/17											
CESI 512	REGULATE UTILITIES Regulating Electric Utilities	WIN/2019 - AUT/9999	1.0	.	CR/NC
				LAST UPDT:10/25/17		APPROVED: 4/18/18											

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				-ALL	U		GRD	E	U	N	E	P	&	N				C
CESI 513	OP AND MAINT WIND Operation and Maintenance of a Wind Farm	WIN/2019 - AUT/9999	1.0	.	CR/NC
				LAST UPDT:10/25/17		APPROVED: 4/18/17												
CESI 514	HYDRO PROJ RELICENSE Hydroelectric Project Relicensing	WIN/2019 - AUT/9999	1.0	.	CR/NC
				LAST UPDT:10/25/17		APPROVED: 4/18/17												
CESI 519	E-CONSTRUCTION Trends and Applications in E-Construction	WIN/2019 - AUT/9999	1.0	.	CR/NC
				LAST UPDT:10/25/17		APPROVED: 4/18/17												
CESI 520	ELEC FUNDAMENTALS Electricity Fundamentals	WIN/2019 - AUT/9999	1.0	.	CR/NC
				LAST UPDT:10/25/17		APPROVED: 4/18/17												
CESI 521	INTRO ACAD BLUEBEAM Introduction to AutoCAD and Bluebeam	WIN/2019 - AUT/9999	1.0	.	CR/NC
				LAST UPDT:10/25/17		APPROVED: 4/18/17												
CESI 522	INTRO AUTOTURN Introduction to AutoTURN	WIN/2019 - AUT/9999	1.0	.	CR/NC
				LAST UPDT:10/25/17		APPROVED: 4/18/17												
CESI 524	STAT FOR CONST Statistical Methods for Construction	WIN/2019 - AUT/9999	1.0	.	CR/NC
				LAST UPDT:10/25/17		APPROVED: 4/18/17												
CESI 525	WIND TURB ANALYSIS Wind Turbine Analysis	SPR/2020 - AUT/9999	1.0	.	CR/NC
				LAST UPDT:12/18/19		APPROVED: 1/23/18												
CESI 527	ENER INFRA FUND Energy Infrastructure Fundamentals	WIN/2019 - AUT/9999	1.0	.	CR/NC
				LAST UPDT: 7/02/18		APPROVED: 6/05/18												
CESI 528	DES PROJECT ROADS Pavement Design for Project Roads	SUM/2019 - AUT/9999	1.0	.	CR/NC
				LAST UPDT: 7/02/18		APPROVED: 6/05/18												
CESI 529	SUPPLEMENTAL PAVE Supplemental Pavement Topics	SUM/2019 - AUT/9999	1.0	.	CR/NC
				LAST UPDT:10/17/18		APPROVED:10/16/18												

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				-ALL U	GRD P		GRD E	U N E	M R E		L I P	A S W	T P R	G			
CESI 552	ENVIR REGS Environmental Regulations	WIN/2018 - AUT/9999	3.0 Y
				LAST UPDT:12/26/17		APPROVED: 4/15/08											
CESI 588	ENERGY INFRA & ENV Energy Infrastructure and the Environment	SPR/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/26/17		APPROVED: 1/18/11											
CESI 592	STAT FUND CONST APP Statistical Fundamentals for Construction and Materials Applications	SPR/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/26/17		APPROVED: 1/25/06											
CESI 594	COMPT-AIDED CONSTR Computer-Aided Construction	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/11/17		APPROVED: 1/25/06											
CESI 595	CONSTRUCTION MATS Construction Materials	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/11/17		APPROVED: 1/25/06											
CESI 596	PAVE CONSTRUCTION Pavement Construction	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/11/17		APPROVED: 1/25/06											
CESI 599	SPECIAL TOPICS Special Topics in Construction, Energy and Sustainable Infrastructure	WIN/2018 - AUT/9999	1.0-05.0	20.0
				LAST UPDT:12/21/17		APPROVED:12/19/17											

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				-ALL	U	GRD	E	U	N	E	P	&	N	C	M			
CET 511	PLANNING PPL & FRT Planning for People and Freight	AUT/2019 - AUT/9999	4.0
				LAST UPDT: 3/22/19				APPROVED: 3/25/02										
CET 512	TRANSP DATA COLLECT Transportation Data Collection	AUT/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/22/19				APPROVED:12/19/17										
CET 513	TRANSP NETWK & OPTIM Transportation Networks and Optimization	AUT/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/22/19				APPROVED: 3/19/19										
CET 521	INFERENTL DATA ANSYS Inferential Data Analysis for Engineers	AUT/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	CET 521	IND E 546	.	.
				LAST UPDT: 3/22/19				APPROVED: 1/28/00										
CET 522	TRANSP DATA MGMT VIS Transportation Data Management and Visualization	WIN/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/22/19				APPROVED:12/19/17										
CET 561	TRANSPORTATION PLAN Transportation Planning and Design	AUT/2017 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/27/17				APPROVED: 3/15/11										
CET 562	LIVABLE COMM Livable Communities and Design	AUT/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/11/17				APPROVED: 3/15/11										
CET 563	TRANS CHOICES Transportation Choices and Technology	AUT/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/11/17				APPROVED: 3/15/11										
CET 564	SUSTAIN TRANS SYST Sustainable Transportation from a Systems Perspective	AUT/2017 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/27/17				APPROVED: 4/17/12										
CET 565	CLIM CHANGE ENERGY Climate Change and Energy	WIN/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/29/17				APPROVED: 4/17/12										
CET 566	ENV ANALYSIS ASSESS Environmental Analysis and Assessment	AUT/2017 - AUT/9999	5.0
				LAST UPDT:10/11/17				APPROVED: 4/17/12										

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				-ALL U	GRD		U N E	P	N	C	M	S	N	A				S
CET 567	HEALTH SUSTAIN TRAN Health and Sustainable Transportation	AUT/2017 - AUT/9999	5.0
				LAST UPDT: 9/27/17		APPROVED: 4/16/13												
CET 568	TRANS ECONOMICS Transportation Economics	AUT/2017 - AUT/9999	5.0
				LAST UPDT:10/11/17		APPROVED: 4/16/13												
CET 569	SUSTAIN POLICY FIN Policy Development, Finance, and Sustainable Transportation	AUT/2017 - AUT/9999	5.0
				LAST UPDT:10/11/17		APPROVED: 4/16/13												
CET 579	ADV TRAFFIC DET SYS Advanced Traffic Detection Systems	AUT/2017 - AUT/9999	3.0
				LAST UPDT:10/11/17		APPROVED: 1/31/05												
CET 581	TRAVEL DEMAND FCAST Travel Demand Forecasting	AUT/2017 - AUT/9999	4.0
				LAST UPDT:10/11/17		APPROVED: 6/28/00												
CET 582	INTELLGNT TRANS SYS Intelligent Transportation Systems	AUT/2017 - AUT/9999	3.0
				LAST UPDT: 9/27/17		APPROVED: 6/28/00												
CET 583	TRANSP ENRGY & SUST Transportation Energy and Sustainability	AUT/2017 - AUT/9999	3.0
				LAST UPDT:10/11/17		APPROVED: 9/15/15												
CET 585	ANLY METH TRANSP II Analytical Methods in Transportation II	AUT/2017 - AUT/9999	3.0
				LAST UPDT:10/11/17		APPROVED: 6/28/00												
CET 586	PEDESTRIAN TRAVEL Pedestrian Travel, Land Use, and Urban Form	AUT/2017 - AUT/9999	3.0	URBDP 576	URBDP 576	.
				LAST UPDT:10/17/17		APPROVED: 2/24/06												
CET 587	TRANSPRTN LOGISTICS Transportation Logistics	AUT/2019 - AUT/9999	4.0
				LAST UPDT: 3/22/19		APPROVED: 9/22/97												
CET 589	TRANSIT SYSTEMS PLG Transit Systems Planning	WIN/2018 - AUT/9999	3.0	Y
				LAST UPDT:10/31/17		APPROVED: 8/23/00												
				FEE TYPE:1 \$50.00 BUDGET:069644 REV OBJ CD:943081														

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				-ALL U	GRD		E	U N E	P & A	N C M S N	E C Q T						
CEWA 532	ADV REMOTE SENSING Advanced Remote Sensing and Earth Observation	WIN/2020 - AUT/9999	4.0	CEWA 532 SEFS 532	.	.	
				LAST UPDT: 9/20/19		APPROVED: 9/17/19											
CEWA 540	MICRO PROC FUND Microbiological Process Fundamentals	AUT/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.		.	.
				LAST UPDT: 9/26/19		APPROVED: 6/28/00											
CEWA 541	BIO TRT SYST Biological Treatment Systems	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.		.	.
				LAST UPDT:12/26/17		APPROVED: 3/28/91											
CEWA 543	AQUATIC CHEMISTRY Aquatic Chemistry	WIN/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.		.	.
				LAST UPDT:12/26/17		APPROVED: 2/21/01											
CEWA 544	PHY CHEM TRT PROC Physical-Chemical Treatment Processes	WIN/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.		.	.
				LAST UPDT:11/29/17		APPROVED: 8/23/00											
CEWA 545	ENV ORG CHEM Environmental Organic Chemistry	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.		.	.
				LAST UPDT:10/11/17		APPROVED: 8/27/01											
CEWA 546	TOP EC EFF WAST WAT Topics in Ecological Effects of Wastewater	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.		.	.
				LAST UPDT:12/26/17		APPROVED: 8/23/00											
CEWA 547	LAKE/WATERSHED MGMT Lake and Watershed Management	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.		.	.
				LAST UPDT:12/26/17		APPROVED: 4/01/88											
CEWA 549	ADV TOPICS ENV ENG Advanced Topics in Environmental Engineering, Chemistry, and Biology	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.		.	.
				LAST UPDT:10/11/17		APPROVED: 8/23/00											
CEWA 550	ENVIR CHEM MODEL Environmental Chemical Modeling	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.		.	.
				LAST UPDT:12/26/17		APPROVED: 8/27/01											
CEWA 553	SMNR ATMOS CHEM Seminar - Topics in Atmospheric Chemistry	WIN/2018 - AUT/9999	1.0-03.0	6.0 Y	CEWA 553 ATM S 525	.	.	
				LAST UPDT:12/26/17		APPROVED: 1/28/00											

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				-ALL U	GRD		U N E	P & A	N C M S N	E C Q T	P R G	MAX	P	SYS				D	HYPH
CEWA 554	ACOSTCS ENVRN NOISE Acoustics of Environmental Noise	WIN/2018 - AUT/9999	4.0	M E	528 M E	528 .		
				LAST UPDT:12/26/17		APPROVED: 7/16/70													
CEWA 555	TPCS ENVIRNMTL HLTH Topics in Environmental Health	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:12/26/17		APPROVED: 8/23/00													
CEWA 557	AIR RESOURCES MGMT Air Resources Management	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:12/26/17		APPROVED: 8/23/00													
CEWA 560	RISK ASSESSMENT Risk Assessment for Environmental Health Hazards	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	ENV H 577	PUBPOL589	.
				LAST UPDT: 4/19/18		APPROVED: 3/30/82												ENV H 577	
CEWA 564	ADVANCED HYDROLOGY Advanced Hydrology	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:10/11/17		APPROVED: 8/23/00													
CEWA 565	DATA ANALYSIS WATER Data Anaylsis in Water Sciences	AUT/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 6/20/17		APPROVED: 6/06/17													
CEWA 566	SAT REM SENS WATER Satellite Remote Sensing for Water Resources	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 6/20/17		APPROVED: 6/06/17													
CEWA 568	SNOW HYDROLOGY Snow Hydrology	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:10/11/17		APPROVED: 6/21/11													
CEWA 570	HYDRODYNAMICS Hydrodynamics	AUT/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:10/11/17		APPROVED: 8/23/00													
CEWA 571	HYDRODYN WATER QUAL Hydrodynamics in Water Quality	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:12/26/17		APPROVED: 8/23/00													
CEWA 572	NUMERICAL MODELING Numerical Modeling of Hydrodynamics	SPR/2018 - AUT/9999	3.0		
				LAST UPDT:12/21/17		APPROVED:12/19/17													

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				-ALL U	GRD		U N E	P	& N C M S N	A S W T P R G	RESPONS COURSE	JOINT COURSES						
CEWA 573	COAST WAVES FOR ENG Water Wave Mechanics for Coastal Engineers	AUT/2017 - AUT/9999	4.0	
				LAST UPDT:10/11/17		APPROVED: 8/23/00												
CEWA 574	SEDIMENT TRANSPORT Hydraulics of Sediment Transport	SPR/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/21/17		APPROVED:12/19/17												
CEWA 576	PHYSICAL HYDROLOGY Physical Hydrology	AUT/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/17/17		APPROVED: 6/06/17												
CEWA 577	OPN CHN FLO HEC-RAS Open Channel Flow with Modeling	WIN/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/21/17		APPROVED:12/19/17												
CEWA 578	WATER SYS MGMT & OP Water Resource System Management and Operations	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/11/17		APPROVED: 1/28/00												
CEWA 579	QUANT WATER MANAG Quantitative Water Management	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/21/17		APPROVED:12/19/17												
CEWA 580	WATER QUALITY MNGMT Water-Quality Management	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/31/17		APPROVED: 8/23/00												
CEWA 582	WASTEWTR REUSE RECYC Wastewater Reuse and Resource Recovery	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/21/17		APPROVED:12/19/17												
CEWA 596	CHEM FATE & TRANSP Fate and Transport of Chemicals in the Environment	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/27/17		APPROVED: 9/17/13												
CEWA 597	JORDAN STUDY ABROAD Engineering Jordan: Water in an Arid Land Study Abroad	SPR/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/26/17		APPROVED: 2/19/13												
CEWA 599	SPECIAL TOPICS Special Topics in Environmental Engineering	WIN/2018 - AUT/9999	1.0-05.0	20.0	
				LAST UPDT:12/21/17		APPROVED:12/19/17												

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				-ALL	U		GRD	E	U	N	E	P	& N	C			
SCTL 501	LOGST AND ANALYSIS Logistics and Analysis	AUT/2013 - AUT/9999	3.0
				LAST UPDT: 4/16/13		APPROVED: 4/16/13											
SCTL 502	IT INTEGRATION IT Systems and Supply Chain Integration	WIN/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/26/17		APPROVED: 4/16/13											
SCTL 503	INVENTORY MGMT Inventory Management	SPR/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/22/18		APPROVED: 4/16/13											
SCTL 504	FAC DES & OP MGMT Facility Design and Operations Management	WIN/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/21/17		APPROVED: 4/16/13											
SCTL 505	SUPPLY TRANS RISKS External Supply Chain Transportation Risks	SUM/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/11/18		APPROVED:11/19/13											
SCTL 506	FIN AND PERF MGMT Finance and Performance Management	SUM/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/11/18		APPROVED: 6/03/14											
SCTL 507	PRACTICUM Practicum	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/11/18		APPROVED: 9/16/14											
SCTL 508	SUPPLY CHAIN COLLAB Collaboration Across the Supply Chain	SUM/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/11/18		APPROVED:12/16/14											
SCTL 510	FREIGHT TRANSPORT Freight Transport	WIN/2019 - AUT/9999	5.0
				LAST UPDT:11/20/17		APPROVED:11/14/17											

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				-ALL	U		GRD	E	U	N	E	P	&	N			
CSE 112	AP COMPUTER SCI A Advanced Placement (AP) Computer Science A	SPR/2019 - AUT/9999	4.0	Y	.	Y	.		Y	
				LAST UPDT: 6/27/19		APPROVED: 3/19/19											
CSE 120	COMP SCI PRINCIPLES Computer Science Principles	WIN/2013 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	Y	.		.	
				LAST UPDT:10/17/12		APPROVED:10/16/12											
CSE 131	SCI&ART DIGTL PHOTO Science and Art of Digital Photography	AUT/2012 - AUT/9999	4.0	.	.	.	.	.	.	Y	.	.	.	.		.
				LAST UPDT: 5/22/12		APPROVED: 5/15/12											
CSE 142	COMPUTER PRGRMNG I Computer Programming I	WIN/2015 - AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	Y	.		.	
				LAST UPDT: 1/21/15		APPROVED: 5/30/91											
				COMMENT:CHG DESC													
CSE 143	COMPUTER PRGRMNG II Computer Programming II	WIN/2007 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	Y	.		.	
				LAST UPDT:10/12/06		APPROVED: 5/30/91											
				COMMENT:CHG DESC													
CSE 154	WEB PROGRAMMING Web Programming	WIN/2016 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	Y	.	.	
				LAST UPDT:10/30/15		APPROVED: 5/15/12											
CSE 160	DATA PROGRAMMING Data Programming	SPR/2015 - AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	Y	.		.	
				LAST UPDT: 1/21/15		APPROVED: 1/20/15											
CSE 163	INTERM DATA PROGRAM Intermediate Data Programming	WIN/2020 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.		.
				LAST UPDT:11/26/19		APPROVED:10/17/17											
CSE 180	INTRO DATA SCIENCE Introduction to Data Science	SPR/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	Y	.	.	
				LAST UPDT: 2/21/19													
CSE 190	CURRENT TOPICS CSE Current Topics in Computer Science and Engineering	SPR/2007 - AUT/9999	1.0-05.0	15.0	
				LAST UPDT: 3/14/07		APPROVED: 3/13/07											

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				-ALL	U		GRD	E	U	N	E	P	&	N			
CSE 300	CSE INTERNSHIP CSE Internship Education	AUT/2016 - AUT/9999	1.0-10.0	24.0	.	CR/NC	Y	Y
				LAST UPDT: 5/11/17		APPROVED: 6/07/16											
CSE 301	CSE INTERNSHIP CSE Internship Education	SPR/2016 - AUT/9999	1.0-02.0	12.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/06/16		APPROVED: 2/16/16											
CSE 303	SOFTWARE DEV TOOLS CONCEPTS AND TOOLS FOR SOFTWARE DEVELOPMENT	WIN/2007 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/07/14		APPROVED: 8/20/04											
COMMENT:EMAIL PREQ CHG																	
CSE 311	FOUNDATIONS COMP I Foundations of Computing I	SPR/2010 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	Y	.	.
				LAST UPDT:11/18/09		APPROVED:11/17/09											
CSE 312	FOUNDATIONS COMP II Foundations of Computing II	WIN/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	Y	.	.
				LAST UPDT:11/03/16		APPROVED:11/17/09											
CSE 321	DISCRETE STRUCTURES DISCRETE STRUCTURES	WIN/1990 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/07/14		APPROVED: 6/01/89											
COMMENT:WAS C SCI 321																	
CSE 322	INTRO FORMAL MODELS INTRODUCTION TO FORMAL MODELS IN COMPUTER SCIENCE	WIN/1990 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/26/14		APPROVED: 6/01/89											
COMMENT:WAS C SCI 322																	
CSE 326	DATA STRUCTURES Data Structures	AUT/2007 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/19/14		APPROVED: 6/01/89											
COMMENT:CHG DESCRIPTION																	
CSE 331	SW DESIGN & IMPL Software Design and Implementation	SPR/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/24/18		APPROVED:11/17/09											
CSE 332	DATA STRUC & PRLLEL Data Structures and Parallelism	SPR/2018 - AUT/9999	4.0
				LAST UPDT: 4/24/18		APPROVED:11/17/09											

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COLLEGE : J - Engineering
 DEPARTMENT: COMPUTER SCI & ENGR

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	MAX	P	SYS	D	HYPH	M R E			
CSE 333	SYSTEMS PROGRAMMING Systems Programming	SPR/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/23/16 APPROVED:11/17/09														.
CSE 340	INTERACTION PROG Interaction Programming	SPR/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/25/19 APPROVED: 3/19/19														.
CSE 341	PROGRAMMING LANGS Programming Languages	SPR/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/23/16 APPROVED: 6/22/89														.
CSE 344	INTRO DATA MGMT Introduction to Data Management	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/19/14 APPROVED:11/17/09														.
				COMMENT:14-16 PREQ CHG														.
CSE 351	HW SW INTERFACE The Hardware/Software Interface	SPR/2010 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/18/09 APPROVED:11/17/09														.
CSE 352	HW DESIGN & IMPL Hardware Design and Implementation	SPR/2010 - AUT/9999	4.0	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/23/15 APPROVED:11/17/09														.
				FEE TYPE:1 \$50.00 BUDGET:069645 REV OBJ CD:943081														.
CSE 369	INTRO DIG DESIGN Introduction to Digital Design	WIN/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/18/19 APPROVED: 6/02/15														.
CSE 370	INTRO DIG DESIGN INTRODUCTION TO DIGITAL DESIGN	WIN/2005 - AUT/9999	4.0	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/07/14 APPROVED: 5/31/90														.
				COMMENT:FEE CHANGE														.
				FEE TYPE:1 \$50.00 BUDGET:069645 REV OBJ CD:943081														.
CSE 371	DIGITAL DESIGN Design of Digital Circuits and Systems	WIN/2016 - AUT/9999	5.0	.	.	.	.	.	Y	.	.	.	.	.	.	E E	371 E E	371 .
				LAST UPDT: 8/22/16 APPROVED: 9/16/14														.
				FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081														.
CSE 373	DATA STRUC/ALGORITHM Data Structures and Algorithms	SPR/2018 - AUT/9999	4.0
				LAST UPDT: 4/24/18 APPROVED: 6/22/89														.

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COLLEGE : J - Engineering
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				-ALL	U		GRD	E	U	N	E	P	&	N			
CSE 455	COMPUTER VISION Computer Vision	AUT/2014 - AUT/9999	4.0
	COMMENT:14-16 PREQ CHG																
CSE 456	STORY FOR ANIMATION Story Design for Computer Animation	AUT/2003 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:14-16 PREQ CHG																
CSE 457	COMPUTER GRAPHICS Computer Graphics	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:14-16 PREQ CHG																
CSE 458	COMPUTER ANIMATION Computer Animation	AUT/2014 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:14-16 PREQ CHG																
CSE 459	ANIMATION PRE-PROD Pre-Production for Collaborative Animation	WIN/2004 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:14-16 PREQ CHG																
CSE 460	ANIMATION CAPSTONE Animation Capstone	AUT/2003 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:14-16 PREQ CHG																
CSE 461	INTRO COMP NETWORKS Introduction to Computer-Communication Networks	AUT/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:EMAIL PREQ CHG																
CSE 464	ADV TOPICS-ANIMATION Advanced Topics in Digital Animation	AUT/2014 - AUT/9999	1.0-05.0	10.0	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:14-16 PREQ CHG																
CSE 467	ADV DIGITAL DESIGN Advanced Digital Design	AUT/2014 - AUT/9999	4.0	Y
	COMMENT:14-16 PREQ CHG																

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 FEE TYPE:1 \$50.00 BUDGET:069645 REV OBJ CD:943081

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COLLEGE : J - Engineering
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CURRIC NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D D S H F V L 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	MAX	P	SYS	D	HYPH				M R E
CSE 481	CAP SOFT DESIGN Capstone Software Design	WIN/2017 - AUT/9999	5.0	15.0
				LAST UPDT:11/29/16 APPROVED:12/01/99													.	
CSE 482	CAP SW DESIGN - EUP Capstone Software Design to Empower Underserved Populations	WIN/2017 - AUT/9999	5.0	15.0
				LAST UPDT: 2/16/17 APPROVED:11/15/16													.	
CSE 484	COMPUTER SECURITY Computer Security	AUT/2014 - AUT/9999	4.0
				LAST UPDT: 9/19/14 APPROVED: 6/20/07													.	
				COMMENT:14-16 PREQ CHG													.	
CSE 486	INTRO SYNTH BIO Introduction to Synthetic Biology	AUT/2019 - AUT/9999	3.0	E E	423	BIOEN 423	.
				LAST UPDT: 4/10/19 APPROVED:11/17/09													E E 423	
CSE 487	ADV SYNTHETIC BIO Advanced Systems and Synthetic Biology	AUT/2011 - AUT/9999	3.0	BIOEN	424	E E 424	.
				LAST UPDT: 3/21/16 APPROVED:11/17/09													BIOEN 424	
				COMMENT:EMAIL PREQ CHG, CHG DESC													.	
CSE 488	LAB SYNTH BIO Laboratory Methods in Synthetic Biology	AUT/2009 - AUT/9999	4.0	E E	425	BIOEN 425	.
				LAST UPDT: 1/27/10 APPROVED:11/17/09													E E 425	
CSE 490	SPECIAL TOPICS CSE Special Topics in Computer Science and Engineering	WIN/2000 - AUT/9999	1.0-05.0	15.0	Y
				LAST UPDT: 7/23/15 APPROVED: 2/28/94													.	
				FEE TYPE:1 \$50.00 BUDGET:069645 REV OBJ CD:943081													.	
CSE 491	DATA SCI & SOC SMNR Data Science and Society Seminar	SPR/2016 - AUT/9999	1.0	.	CR/NC
				LAST UPDT: 2/23/16 APPROVED: 2/23/16													.	
CSE 492	UGRAD SEMINAR Undergraduate Seminar	AUT/2019 - AUT/9999	1.0-02.0	5.0	.	CR/NC
				LAST UPDT: 6/07/19 APPROVED: 6/04/19													.	
CSE 495	PROJECT PRACTICUM Project Practicum	WIN/2014 - AUT/9999	1.0-05.0	5.0	.	.	11
				LAST UPDT:11/20/13 APPROVED:11/19/13													.	

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COLLEGE : J - Engineering
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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 MAX	GRD P	E SYS	D HYPH	U N E M R E	P & A	N S	C W	M T	S P	R G				
CSE 497	UGRAD RES SEM Undergraduate Research Seminar	AUT/2003 - AUT/9999	1.0
				LAST UPDT: 6/26/03 APPROVED: 6/25/03														
CSE 498	SENIOR PROJECT Senior Project	WIN/1990 - AUT/9999	1.0-09.0	9.0	.	.	11
				LAST UPDT:10/13/06 APPROVED: 6/22/89														
				COMMENT:WAS C SCI 498														
CSE 499	READING & RESEARCH Reading and Research	WIN/1990 - AUT/9999	1.0-24.0	24.0	.	CR/NC
				LAST UPDT:10/13/06 APPROVED: 6/22/89														
				COMMENT:WAS C SCI 499														
CSE 501	PROG LANG AN & IMPL Programming Language Analysis and Implementation	AUT/2014 - AUT/9999	4.0
				LAST UPDT: 9/19/14 APPROVED: 6/22/89														
				COMMENT:14-16 PREQ CHG														
CSE 503	SOFTWARE ENG Software Engineering	AUT/2014 - AUT/9999	4.0
				LAST UPDT: 9/19/14 APPROVED: 6/22/89														
				COMMENT:14-16 PREQ CHG														
CSE 504	ADV TPCS SOFTW ENG Advanced Topics in Software Engineering	AUT/2014 - AUT/9999	4.0
				LAST UPDT: 9/19/14 APPROVED:11/29/95														
				COMMENT:14-16 PREQ CHG														
CSE 505	PRIN OF PROG LANGS Principles of Programming Languages	AUT/2014 - AUT/9999	4.0
				LAST UPDT: 9/19/14 APPROVED: 6/22/89														
				COMMENT:14-16 PREQ CHG														
CSE 506	ADV TOPIC PROG LANG Advanced Topics in Programming Languages	AUT/2014 - AUT/9999	4.0
				LAST UPDT: 9/19/14 APPROVED: 6/22/89														
				COMMENT:14-16 PREQ CHG														
CSE 507	REASONING FOR SW Computer-Aided Reasoning for Software	AUT/2014 - AUT/9999	4.0
				LAST UPDT:11/19/14 APPROVED:11/18/14														

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CSE 524	PARALLEL ALGORITHMS Parallel Algorithms	AUT/2014 - AUT/9999	4.0
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14 APPROVED:12/01/89																					
CSE 525	RANDOM ALGORITHMS Randomized Algorithms and Probabilistic Analysis	AUT/2014 - AUT/9999	4.0
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14 APPROVED: 2/21/07																					
CSE 526	CRYPTOGRAPHY Cryptography	WIN/2019 - AUT/9999	4.0
				LAST UPDT:11/15/18 APPROVED:11/13/18																					
CSE 527	COMP BIO Computational Biology	AUT/2014 - AUT/9999	4.0
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14 APPROVED: 6/21/99																					
CSE 528	COMPUTATNL NEUROSCI Computational Neuroscience	WIN/2015 - AUT/9999	3.0	CSE 528	NEURO 528	.
	COMMENT:CHG JT STATUS			LAST UPDT:10/14/14 APPROVED:12/22/03																					
CSE 529	MOVEMENT CONTROL Neural Control of Movement: A Computational Perspective	WIN/2011 - AUT/9999	3.0	AMATH 533	AMATH 533	.
				LAST UPDT: 1/03/11 APPROVED:12/21/10																					
CSE 531	COMPUTABIILTY I Computational Complexity I	AUT/2014 - AUT/9999	4.0
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14 APPROVED: 6/22/89																					
CSE 532	COMPLEXITY II Computational Complexity II	AUT/2014 - AUT/9999	4.0
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14 APPROVED: 6/22/89																					
CSE 533	ADV TOP COMPLEX THY Advanced Topics in Complexity Theory	AUT/2014 - AUT/9999	4.0
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14 APPROVED: 6/22/89																					

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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		U N E	P	I	N	C	M	S	N						
CSE 535	OPTIMIZATION THEORY Theory of Optimization and Continuous Algorithms	WIN/2020 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/24/19		APPROVED:12/18/18														
CSE 544	PRINCIPLES OF DBMS Principles of Database Systems	AUT/2011 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG CREDITS			LAST UPDT: 9/20/11		APPROVED: 9/28/98														
CSE 546	MACHINE LEARNING Machine Learning	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14		APPROVED: 8/23/00														
CSE 547	MACH LEARN BIG DATA Machine Learning for Big Data	WIN/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	STAT 548	STAT 548	.	.
				LAST UPDT: 6/05/13		APPROVED: 6/04/13														
CSE 548	COMPUTER SYST ARCH Computer Systems Architecture	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14		APPROVED: 6/22/89														
CSE 549	HI - PERFORM ARCH High-Performance Computer Architectures	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14		APPROVED: 6/22/89														
CSE 550	COMPUTER SYSTEMS Computer Systems	AUT/2009 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/16/09		APPROVED:10/20/09														
CSE 551	OPERATING SYSTEMS Operating Systems	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14		APPROVED: 6/01/89														
CSE 552	DIST & PARALLEL SYS Distributed and Parallel Systems	AUT/2014 - AUT/9999	4.0			
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14		APPROVED: 6/22/89														

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				-ALL U	GRD	E	U N E	P & N C M S N	A S W T P R G									
CSE 590	RESEARCH SEMINAR Research Seminar	AUT/2014 - AUT/9999	0.0	50.0	Y	Y
				LAST UPDT: 9/19/14 APPROVED: 6/01/89 FEE TYPE:1 \$30.00 BUDGET:069390 REV OBJ CD:943081 COMMENT:14-16 PREQ CHG														
CSE 591	GROUP PROJECTS Group Projects in Computer Science	WIN/2009 - AUT/9999	1.0-03.0	25.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/19/08 APPROVED: 2/27/04 COMMENT:CHG MAX CREDITS														
CSE 599	SPECIAL TOPICS Special Topics in Computer Science	AUT/2013 - AUT/9999	1.0-05.0	30.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/05/13 APPROVED: 2/27/04 COMMENT:CHG CREDITS														
CSE 600	INDEPN DNT STDY/RSCH Independent Study or Research	WIN/1990 - AUT/9999	0.0	999.0	.	CR/NC	.	11	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/19/10 APPROVED: 6/22/89 COMMENT:WAS C SCI 600														
CSE 601	INTERNSHIP Internship	SPR/2016 - AUT/9999	1.0-02.0	12.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/06/16 APPROVED: 2/16/16														
CSE 700	MASTERS THESIS Master's Thesis	WIN/1990 - AUT/9999	0.0	999.0	.	CR/NC	.	11	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/19/10 APPROVED: 6/22/89 COMMENT:WAS C SCI 700														
CSE 800	DOCTORAL DISSERTATN Doctoral Dissertation	WIN/1990 - AUT/9999	0.0	999.0	.	CR/NC	.	11
				LAST UPDT: 4/19/10 APPROVED: 6/22/89 COMMENT:WAS C SCI 800														

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					-ALL U	GRD									
CSE D 514	DATA MGMT DATA SCIEN Data Management for Data Science	WIN/2018 -	AUT/9999	5.0	CSE D 514 DATA	514	.
LAST UPDT: 3/03/17 APPROVED: 2/21/17															
CSE D 515	SOFTWR DSGN DAT SCI Software Design for Data Science	SPR/2017 -	AUT/9999	5.0	CSE D 515 DATA	515	.
LAST UPDT: 3/06/17 APPROVED: 2/21/17															
CSE D 516	SCAL DATA SYS & ALG Scalable Data Systems and Algorithms	AUT/2017 -	AUT/9999	5.0	CSE D 516 DATA	516	.
LAST UPDT: 3/06/17 APPROVED: 2/21/17															

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				-ALL	U		GRD	E	U			N	E	P			
CSE M 501	INT COMPILER CONSTR Introduction to Compiler Construction	SPR/2018 - AUT/9999	4.0
				LAST UPDT: 3/22/18		APPROVED: 3/20/18											
CSE M 544	DATABASE SYSTEMS Database Systems	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14		APPROVED: 6/17/08											
CSE M 547	NAT LANG PROCESSING Natural Language Processing	WIN/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/21/17		APPROVED:12/19/17											
CSE M 552	DISTRIBUTED SYSTEMS Introduction to Distributed Systems	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14		APPROVED: 8/21/12											
CSE M 584	COMPUTER SECURITY Computer Security	AUT/2014 - AUT/9999	4.0
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14		APPROVED:12/16/08											

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				-ALL U	GRD		U	N	E	P	& N	C	M	S			
CSE P 564	COMPUTER SECURITY Computer Security and Privacy	AUT/2012 - AUT/9999	4.0	Y
				LAST UPDT:11/21/12		APPROVED:11/20/12											
CSE P 567	DIGITAL SYSTEMS Design and Implementation of Digital Systems	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/19/14		APPROVED: 1/23/97											
				COMMENT:14-16 PREQ CHG													
CSE P 573	APPS ARTIF INTEL Applications of Artificial Intelligence	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/19/14		APPROVED: 1/23/97											
				COMMENT:14-16 PREQ CHG													
CSE P 576	COMPUTER VISION Computer Vision	AUT/2003 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/16/06		APPROVED: 1/30/03											
				COMMENT:CHANGE TITLES													
CSE P 590	SP TPC COMPTR SCI Special Topics in Computer Science	SPR/2003 - AUT/9999	1.0-04.0	20.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/06/03		APPROVED: 1/30/03											
CSE P 595	SW ENTREPRENEURSHIP Software Entrepreneurship	SPR/2003 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/27/03		APPROVED: 2/26/03											
CSE P 596	SOFTWARE BUSINESS Business Basics Computer Science Professionals	SPR/2003 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/06/03		APPROVED: 1/30/03											
CSE P 600	INDPNT STDY/RES Independent Study or Research	SPR/2003 - AUT/9999	1.0-04.0	999.0	.	.	11
				LAST UPDT: 4/19/10		APPROVED: 1/30/03											

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				-ALL U	GRD	E	D	U N E	M R E	P & A	N S W	C M T	E C P	R Q S	S N			
E E 205	INTRO SIGNAL COND Introduction to Signal Conditioning	SPR/2010 - AUT/9999	4.0	Y	Y
				LAST UPDT: 8/22/16 APPROVED:11/17/09														
				FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081														
E E 215	INTRO TO E E Fundamentals of Electrical Engineering	SPR/2016 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	Y	.	.	.	.
				LAST UPDT:11/24/15 APPROVED: 3/15/99														
				FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081														
E E 233	CIRCUIT THEORY Circuit Theory	AUT/2018 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/22/18 APPROVED: 2/03/92														
				FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081														
E E 235	CT LINEAR SYSTEMS Continuous Time Linear Systems	SPR/2016 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/24/15 APPROVED: 3/31/92														
				FEE TYPE:1 \$35.00 BUDGET:069330 REV OBJ CD:943081														
E E 271	DIGITAL CIR & SYSTE Digital Circuits and Systems	SPR/2016 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/24/15 APPROVED:12/06/91														
				FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081														
E E 299	INTRO TPCS E E Introductory Topics in Electrical Engineering	WIN/2014 - AUT/9999	1.0-05.0	10.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.
				LAST UPDT:10/16/13														
				COMMENT:CHG TITLES, MAX CREDITS														
E E 331	DEVICES/CIRCUITS I Devices and Circuits I	AUT/1996 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/23/15 APPROVED:12/06/91														
				FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081														
E E 332	DEVICES/CIRCUITS II Devices and Circuits II	AUT/1995 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/23/15 APPROVED:12/06/91														
				FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081														
E E 341	DT LINEAR SYSTEMS Discrete Time Linear Systems	WIN/1999 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/23/15 APPROVED:12/06/91														
				FEE TYPE:1 \$35.00 BUDGET:069330 REV OBJ CD:943081														
				COMMENT:CHG CONTACT HOURS														

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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 MAX	GRD P	E SYS	D HYPH	U N E M R E	P & A	N S	C W	M T	S P	R G				
E E	417 MOD WIRELESS COMMS Modern Wireless Communications	WIN/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/15/17 APPROVED: 6/03/71														
E E	418 NETWK SECR & CRYPTOG Network Security and Cryptography	AUT/2004 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT: CHANGE PREREQ			LAST UPDT:10/16/06 APPROVED: 6/03/71														
E E	419 INTRO COMP NETWORKS Introduction to Computer-Communication Networks	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/11/18 APPROVED: 3/28/91														
E E	420 DESIGN IN COMM Design in Communications	WIN/1998 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/02/97 APPROVED:10/23/97														
E E	421 QUANTUM MECH ENGRS Quantum Mechanics for Engineers	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/12/17 APPROVED:11/14/17														
E E	423 INTRO SYNTH BIO Introduction to Synthetic Biology	AUT/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	E E	423 CSE	486
				LAST UPDT: 4/10/19 APPROVED:11/17/09														
E E	424 ADV SYNTHETIC BIO Advanced Systems and Synthetic Biology	AUT/2011 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	BIOEN	424 CSE	487
	COMMENT:EMAIL PREQ CHG, CHG DESC			LAST UPDT: 3/21/16 APPROVED:11/17/09														
E E	425 LAB SYNTH BIO Laboratory Methods in Synthetic Biology	AUT/2009 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	E E	425 BIOEN	425
				LAST UPDT: 1/27/10 APPROVED:11/17/09														
E E	433 ANALOG CKT DESIGN Analog Circuit Design	AUT/1992 - AUT/9999	5.0	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
	COMMENT:CHG TITLES, CRS, DESC			LAST UPDT: 7/17/15														
				FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081														
E E	436 MEDICAL INSTRUMENTN Medical Instrumentation	WIN/2013 - AUT/9999	4.0
	COMMENT:EMAIL PREQ CHG			LAST UPDT: 5/31/12 APPROVED: 9/26/74														

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				-ALL U	GRD		E	U N E	P	& N C M S N	A S W T P R G						
E E	437 INTEGRATED SYSTEMS Integrated Systems Capstone	SPR/2018 - AUT/9999	5.0
				LAST UPDT: 4/19/18		APPROVED: 4/17/18											
E E	438 INSTRMT DESIGN PROJ Instrumentation Design Project Capstone	SPR/2016 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/20/15		APPROVED:12/15/15											
E E	440 INTRO DGTL IMAG SYST Introduction to Digital Imaging Systems	AUT/1998 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/10/14		APPROVED: 6/23/98											
				FEE TYPE:1		\$35.00 BUDGET:069330		REV OBJ CD:943081									
E E	442 DIG SIG & FILTERING Digital Signals and Filtering	WIN/1977 - AUT/9999	3.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/23/15		APPROVED: 3/02/72											
				COMMENT:CHG TITLES, DESC		FEE TYPE:1		\$35.00 BUDGET:069330 REV OBJ CD:943081									
E E	443 DES APPL DIG SIG PR Design and Application of Digital Signal Processing	AUT/1996 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/23/97		APPROVED: 2/01/88											
				COMMENT:CHANGE DESCRIPTION													
E E	447 CONTROL SYS ANLYS I Control System Analysis I	SPR/2007 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/24/07		APPROVED: 3/01/72											
				COMMENT:CHG PREQ													
E E	448 CONTROLS CAPSTONE Systems, Controls, and Robotics Capstone	WIN/2015 - AUT/9999	4.0	.	.	12	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/04/14		APPROVED:12/06/93											
				COMMENT:CHG TTLS, DESC, HRS, CRDT,HYP		FEE TYPE:1		\$45.00 BUDGET:069310 REV OBJ CD:943081									
E E	449 CONTROLS CAPSTONE Systems, Controls, and Robotics Capstone	WIN/2015 - AUT/9999	4.0	.	.	22	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/04/14		APPROVED: 2/28/92											
				COMMENT:CHG TTLS, DESC, HYPHEN		FEE TYPE:1		\$45.00 BUDGET:069330 REV OBJ CD:943081									
E E	451 WIND ENERGY Wind Energy	SPR/2011 - AUT/9999	4.0
				LAST UPDT: 5/26/10		APPROVED: 5/18/10											

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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 MAX	GRD P	E SYS	D HYPH	U N E M R E	P & A	N S W	C T P	M S R	S N G			
E E 461	NEURAL TECH STUDIO Neural Engineering Tech Studio	AUT/2019 - WIN/2020	4.0	.	.	.	.	.	.	.	.	.	.	BIOEN 461	BIOEN 461	.
				LAST UPDT:10/07/19 APPROVED: 6/07/16												
E E 461	NEURAL TECH STUDIO Neural Engineering Tech Studio	SPR/2020 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	BIOEN 461	BIOEN 461	.
				LAST UPDT:10/07/19 APPROVED: 6/07/16												
E E 462	EM I: MWAVE ENGR Electromagnetics I: Microwave Engineering	WIN/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 8/19/15 APPROVED: 1/20/93												
E E 463	MICROWAVE ELEC DESN Microwave Electronic Design	SPR/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:11/27/19												
E E 464	ANTENNAS Antennas: Analysis and Design	WIN/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 8/19/15 APPROVED: 1/29/70												
E E 466	NEUROCOMP/ENGR LAB Neural Computation and Engineering Laboratory	WIN/2020 - AUT/9999	3.0	.	.	.	.	Y	.	Y	.	.	.	BIOEN 466	BIOEN 466	.
				LAST UPDT:12/18/19 APPROVED: 1/19/16												
				FEE TYPE:1 \$110.00 BUDGET:069241 REV OBJ CD:943081												
E E 469	COMPUTER ARCH I Computer Architecture I	WIN/2016 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	E E 469	CSE 469	.
				LAST UPDT: 6/05/15 APPROVED: 6/23/83												
				FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081												
E E 470	COMPUTER ARCH II Computer Architecture II	SUM/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	CSE 470	CSE 470	.
				LAST UPDT: 5/10/19 APPROVED: 5/29/92												
E E 473	LINEAR IC DESIGN Linear Integrated Circuits	AUT/2007 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.			.
				LAST UPDT: 7/23/15 APPROVED: 5/30/22												
				COMMENT:CHG CREDITS FEE TYPE:1 \$35.00 BUDGET:069330 REV OBJ CD:943081												
E E 474	INTRO EMBEDDED SYS Introduction to Embedded Systems	AUT/2018 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	CSE 474	CSE 474	.
				LAST UPDT: 8/16/18 APPROVED:12/01/99												
				FEE TYPE:1 \$50.00 BUDGET:069645 REV OBJ CD:943081												

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				-ALL	U		GRD	E	U	N	E	P	&	N				C
E E 475	EMBEDDED CAPSTONE Embedded Systems Capstone	WIN/2016 - AUT/9999	5.0	Y	E E 475 CSE	475	.		
				LAST UPDT: 6/05/15 APPROVED: 6/01/84														
				FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081														
E E 476	INTRO VLSI DESIGN Introduction to Very Large-Scale Integrated Design	AUT/2019 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.			.
				LAST UPDT: 1/24/19														
				FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081														
E E 477	VLSI II VLSI II	SUM/2019 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.			.
				LAST UPDT: 8/27/19 APPROVED: 2/23/96														
				FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081														
E E 478	DIG DESIGN PROJECTS Capstone Integrated Digital Design Projects	SPR/2019 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 3/22/19 APPROVED: 3/19/19														
E E 482	SEMICONDCTR DEVICES Semiconductor Devices	WIN/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 5/31/12 APPROVED: 5/24/93														
				COMMENT:EMAIL PREQ CHG														
E E 484	SENSRS/SENSR SYSTMS Sensors and Sensor Systems	SPR/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 1/23/12 APPROVED: 2/25/00														
				COMMENT:EMAIL PREQ CHG														
E E 485	INTRO TO PHOTONICS Introduction to Photonics	WIN/2007 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 1/16/13 APPROVED: 3/31/98														
				COMMENT:CHG PREREQ, DESC														
E E 486	IC TECHNOLOGY Fundamentals of Integrated Circuit Technology	SPR/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	MSE 486 MSE	486	.		
				LAST UPDT: 3/16/16 APPROVED: 1/03/01														
E E 490	READINGS & RESEARCH Reading and Research	SUM/2008 - AUT/9999	1.0-05.0	25.0	.	CR/NC		
				LAST UPDT: 2/05/09 APPROVED: 6/17/08														

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				-ALL	U		GRD	E	U	N	E	P	& N	C			
E E 491	UNDERGRAD SEMINAR Undergraduate Seminar	WIN/2009 - AUT/9999	1.0	2.0	.	CR/NC
				LAST UPDT:11/19/08		APPROVED:11/18/08											
E E 492	LEADERSHIP SEMINAR Electrical Engineering Leadership Seminar	WIN/2017 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/14/17		APPROVED:12/13/16											
E E 496	ENGR ENTRE SYS & DES Engineering Entrepreneurial Systems and Design	AUT/2017 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/23/17		APPROVED: 6/06/17											
E E 497	ENTREP CAPSTONE Engineering Entrepreneurial Capstone	SUM/2018 - SPR/2020	4.0	.	.	12	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/19/18		APPROVED:12/15/15											
E E 498	ENTREP CAPSTONE Engineering Entrepreneurial Capstone	AUT/2018 - SPR/2020	4.0	.	.	22	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/19/18		APPROVED:12/15/15											
E E 499	UG RSCH-SP PROJECT Undergraduate Research and Special Projects	WIN/2017 - AUT/9999	1.0-05.0	10.0	Y	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/13/16													
E E 500	GRADUATE SEMINAR Graduate Seminar	AUT/2008 - AUT/9999	1.0	9.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/16/08		APPROVED: 1/29/87											
				COMMENT:CHG MAX CREDITS													
E E 501	ACADEMIC WRITING Academic Writing	AUT/2018 - SUM/2022	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/21/18		APPROVED:12/15/15		DROPPED: 9/18/18									
E E 503	MODELING OF MEMS Modeling of MEMS	WIN/2007 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/13/06		APPROVED:12/13/06											
E E 504	INTRO TO MEMS Introduction to Microelectro Mechanical Systems	SUM/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	E E	504 M E	504	.
				LAST UPDT:12/20/18		APPROVED: 9/20/99		MSE		504							
E E 505	PROB & RAND PROCESS Probability and Random Processes	SUM/1999 - AUT/9999	4.0
				LAST UPDT:10/17/06		APPROVED: 9/25/75											
				COMMENT:CHANGE TITLE & PREREQS													

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				-ALL	U		GRD	E	U	N	E	P	&	N				C
E E 506	FUND OF WIRE COMM Fundamentals of Wireless Communication	AUT/2017 - AUT/9999	4.0
LAST UPDT: 6/08/17																		
E E 507	ADV WIRELESS SYS Advanced Wireless Systems	SUM/2017 - SUM/2020	4.0
LAST UPDT: 6/10/19																		
E E 507	ADV WIRELESS SYS Advanced Wireless Systems	AUT/2020 - AUT/9999	4.0
LAST UPDT: 6/10/19																		
E E 508	STOC PROC IN ENGR Stochastic Processes in Engineering	WIN/2009 - AUT/9999	3.0	E E 508	IND E 508	.	.	.
LAST UPDT: 3/04/16 APPROVED: 7/16/70																		
COMMENT:CHG TTL,DSC,PREQ, ADD JT STAT																		
E E 510	MATH FOUND SYST THR Mathematical Foundations of Systems Theory	AUT/2014 - AUT/9999	4.0	E E 510	A A 510	.	.	.
LAST UPDT: 7/31/14 APPROVED:10/24/91																		
COMMENT:14-16 PREQ CHG																		
E E 511	STAT LEARNING Introduction to Statistical Learning	WIN/2005 - AUT/9999	4.0
LAST UPDT: 9/28/04 APPROVED: 8/20/04																		
E E 512	GRAPHICAL MODELS Graphical Models in Pattern Recognition	SPR/2006 - AUT/9999	4.0
LAST UPDT: 9/28/04 APPROVED: 8/20/04																		
E E 514	INFO THEORY I Information Theory I	WIN/2005 - AUT/9999	4.0
LAST UPDT: 8/24/04 APPROVED: 8/20/04																		
E E 515	INFO THEORY II Information Theory II	SPR/2005 - AUT/9999	4.0
LAST UPDT: 8/24/04 APPROVED: 8/20/04																		
E E 516	COMP SPEECH PROC Computer Speech Processing	WIN/2001 - AUT/9999	4.0
LAST UPDT: 6/29/00 APPROVED: 6/28/00																		

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				-ALL U	GRD		U	N	E	P	& N	C	M	S			
E E 517	CON-SPACE PROC Continuous-Space Language Processing	WIN/2016 - AUT/9999	4.0
				LAST UPDT:11/19/15		APPROVED: 6/28/00											
E E 518	DIGITAL SIGNAL PROC Digital Signal Processing	SPR/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/20/18		APPROVED: 3/18/71											
E E 519	STOCHASTIC ANALYSIS Stochastic Analysis of Data From Physical Systems	SPR/1982 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:CHG TITLES, CRDT, DESC				LAST UPDT:10/17/06		APPROVED: 6/03/71											
E E 520	SPCTR ANLYS TME SER Spectral Analysis of Time Series	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	STAT 520	STAT 520	.	.
COMMENT:14-16 PREQ CHG				LAST UPDT: 3/15/16		APPROVED: 6/01/81											
E E 521	QUANTUM MECH ENGRS Quantum Mechanics for Engineers	AUT/2011 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/10/11		APPROVED: 5/17/11											
E E 523	INTRO SYNTH BIO Introduction to Synthetic Biology	AUT/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	E E 523	BIOEN 523	.	.
				LAST UPDT: 9/28/16		APPROVED:11/17/09		CSE 586 MOLENG 525									
E E 524	ADV SYNTHETIC BIO Advanced Systems and Synthetic Biology	AUT/2011 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	BIOEN 524	CSE 587	.	.
COMMENT:CHG DESC				LAST UPDT: 3/21/16		APPROVED:11/17/09		BIOEN 524									
E E 525	VLSI II VLSI II	SUM/2019 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/22/19		APPROVED: 8/23/00		FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081									
E E 526	VLSI III VLSI III	SPR/2001 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
COMMENT:WAS E E 535				LAST UPDT: 7/23/15		APPROVED:11/17/09		FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081									

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				-ALL	U		GRD	E	U	N	E	P	& N	C			
E E 527	MICROFABRICATION Microfabrication	SPR/2019 - AUT/9999	4.0
				LAST UPDT:12/20/18		APPROVED: 1/31/91											
E E 528	PHYSICS VLSI FAB Physics and Modeling of VLSI Fabrication	AUT/2005 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	E E 528 MSE	528	.	
				LAST UPDT:10/21/16		APPROVED: 5/23/05											
E E 529	SEMICOND OPTOELEC Semiconductor Optoelectronics	SPR/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	E E 529 MSE	529	.	
				LAST UPDT:12/20/15													
E E 530	WAVELETS Wavelets: Data Analysis, Algorithms, and Theory	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	STAT 530 STAT	530	.	
				LAST UPDT: 3/22/16		APPROVED: 1/24/96											
				COMMENT:14-16 PREQ CHG													
E E 531	SEMI DEV&DEV SIMUL Semiconductor Devices and Device Simulation	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/31/14		APPROVED: 6/09/88											
				COMMENT:14-16 PREQ CHG													
E E 533	PHOTODETECTION Photodetectors and Photodetection	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/31/14		APPROVED: 5/14/70											
				COMMENT:14-16 PREQ CHG													
E E 534	POWER ELECTRONICS Power Electronics	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/31/14		APPROVED: 6/01/78											
				COMMENT:14-16 PREQ CHG													
E E 536	ANALOG IC SYSTEMS Design of Analog Integrated Circuits and Systems	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/31/14		APPROVED: 4/28/86											
				COMMENT:14-16 PREQ CHG													
E E 537	COMP METHOD SIMULAT Computation Methods for Circuit Analysis and Simulation	WIN/1994 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/27/93		APPROVED:10/27/93											
E E 538	TOP ELECT CIR DES Topics in Electronic Circuit Design	AUT/2014 - AUT/9999	1.0-05.0	16.0	
				LAST UPDT: 7/31/14		APPROVED: 3/02/72											
				COMMENT:14-16 PREQ CHG													

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						-ALL	U	GRD	E	U	N	E	P	&	N	C	M			
E E	551	WIND ENERGY Wind Energy	SPR/2011 -	AUT/9999	4.0	
						LAST UPDT: 5/26/10 APPROVED: 5/18/10														.
E E	552	POWER SYS CONTROL Power Systems Dynamics and Control	AUT/2014 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 7/31/14 APPROVED: 5/01/83														.
						COMMENT:14-16 PREQ CHG														.
E E	553	POWE SYS ECONOMICS Power System Economics	WIN/2019 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 1/17/19 APPROVED: 2/21/95														.
E E	554	LARGE ELEC ENRG SYS Large Electric Energy Systems Analysis	AUT/2014 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 7/31/14 APPROVED: 6/01/85														.
						COMMENT:14-16 PREQ CHG														.
E E	556	POWER GRID Anaylzing the Power Grid	AUT/2014 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 6/04/14 APPROVED: 6/03/14														.
E E	557	DYN CONTROLLED SYS Dynamics of Controlled Systems	AUT/2014 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 6/04/14 APPROVED: 6/03/14														.
E E	558	DISTRIB AUTOMATION Substation and Distribution Automation	WIN/2015 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 6/27/14 APPROVED: 6/03/14														.
E E	559	TOPICS ELEC ENERGY Special Topics in Electrical Energy Systems	AUT/2014 -	AUT/9999	1.0-05.0	16.0	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 7/31/14 APPROVED: 9/18/80														.
						COMMENT:14-16 PREQ CHG														.
E E	560	NEURAL ENGINEERING Neural Engineering	AUT/2019 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	BIOEN 560	BIOEN 560	
						LAST UPDT:12/20/18 APPROVED: 6/07/16														.
E E	561	NEURAL TECH STUDIO Neural Engineering Tech Studio	AUT/2019 -	AUT/9999	4.0	.	.	.	Y	.	.	.	.	.	.	.	.	BIOEN 561	BIOEN 561	
						LAST UPDT:12/03/19 APPROVED: 6/07/16														.

FEE TYPE:1 \$100.00 BUDGET:068908 REV OBJ CD:943081

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				-ALL U	GRD	E	D	U N E	M R E	P & A	N S W	C M T	E C P	Q S R	S N G			
E E 573	ELECTROMAGNETICS II Electromagnetics II	WIN/2016 - AUT/9999	4.0
LAST UPDT: 8/19/15																		
E E 574	ANTENNAS Antennas: Analysis and Design	SPR/2016 - AUT/9999	4.0
LAST UPDT: 9/23/15 APPROVED: 9/15/15																		
E E 575	RADAR REMOTE SENS Radar Remote Sensing	WIN/2016 - AUT/9999	4.0
LAST UPDT: 8/19/15 APPROVED: 4/17/95																		
E E 576	COMPUTER VISION Computer Vision	AUT/2014 - AUT/9999	3.0	CSE 576	CSE 576	576	.
LAST UPDT: 3/23/16 APPROVED: 6/22/89																		
COMMENT:14-16 PREQ CHG																		
E E 577	COMPUTER VISION Special Topics in Computer Vision	AUT/2014 - AUT/9999	3.0	CSE 577	CSE 577	577	.
LAST UPDT: 7/31/14 APPROVED: 4/28/03																		
COMMENT:14-16 PREQ CHG																		
E E 578	CONVEX OPTIMIZATION Convex Optimization	AUT/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	E E 578	M E 578	578	.
LAST UPDT: 5/31/18 APPROVED: 3/29/05																		
CSE 578 A A 578																		
E E 579	TOPICS/EM,OPT,ACOUS Advanced Topics in Electromagnetics, Optics, and Acoustics	AUT/2014 - AUT/9999	1.0-05.0	16.0
LAST UPDT: 7/31/14 APPROVED: 3/20/86																		
COMMENT:14-16 PREQ CHG																		
E E 580	GEOMETRIC METHODS Geometric Methods for Non-Linear Control Systems	SPR/2007 - AUT/9999	3.0	A A 580	M E 580	580	.
LAST UPDT: 2/25/16 APPROVED: 2/21/07																		
A A 580																		
E E 581	DIGITAL CONTROL SYS Digital Control System Design	WIN/2017 - AUT/9999	4.0	.	.	.	.	.	Y	.	.	.	.	M E 581	A A 581	581	.
LAST UPDT: 6/13/16 APPROVED: 4/29/96																		
FEE TYPE:1 \$50.00 BUDGET:069397 REV OBJ CD:943081																		
M E 581																		
E E 582	DISCRETE EVENT SYS Introduction to Discrete Event Systems	AUT/2005 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	M E 582	A A 582	582	.
LAST UPDT: 3/22/16 APPROVED: 4/29/96																		
COMMENT:CHG TITLES, DESCRIPT, PREREQ																		
M E 582																		

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				-ALL U	GRD		U	N	E	P	& N	C	M	S			
E E	583 NONLINEAR CONTR SYS Nonlinear Control Systems	AUT/2005 - AUT/9999	3.0	E E	583 A A	583 .	
	COMMENT:CHANGED JOINT STATUS,DESCR,PRE														M E	583	
E E	585 SYS ID & ADAPT CTRL System Identification and Adaptive Control	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	E E	585 A A	585 .
	COMMENT:EMAIL PREQ CHG														M E	585	
E E	586 DIG VID COD SYS Digital Video Coding Systems	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:14-16 PREQ CHG																
E E	587 MULTIMEDIA COMP Multimedia Compression and Networking	AUT/2004 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.
E E	589 ADV TOPIC SENSORS Advanced Topics in Sensors and Sensor Systems	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:14-16 PREQ CHG																
E E	590 ADV TPCS DIGT CMPUT Advanced Topics in Digital Computers	AUT/2014 - AUT/9999	2.0-05.0	16.0	Y	.	.	.	.	.	.	.	.			.
	COMMENT:14-16 PREQ CHG																
E E	591 ROBOT & CONTR COLL Robotics and Control Systems Colloquium	AUT/1996 - AUT/9999	1.0	30.0	Y	CR/NC	.	.	.	.	.	.	.	A A	591 A A	591 .
	COMMENT:5-2013 RETRO MAX														CHEM E	591	
															M E	591	
E E	593 FEEDFORWARD CONTROL Feedforward Control	SPR/2006 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	M E	593 A A	593 .
															M E	593	
E E	594 ROBUST CONTROL Robust Control	WIN/2010 - AUT/9999	3.0	A A	594 M E	594 .	
	COMMENT:CHG PREQ														A A	594	

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COLLEGE : J - Engineering
 DEPARTMENT: ENGINEERING

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	M R E	P & A	N S W	C M T	E C P	Q S R	S N	G				
ENGR 100	INTRO ENGR DESIGN Introduction to Engineering Design	SPR/2018 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT: 8/16/18 APPROVED: 5/24/93 FEE TYPE:1 \$30.00 BUDGET:069618 REV OBJ CD:943081														
ENGR 101	ENGR EXPLORATION Engineering Exploration	AUT/2014 - AUT/9999	1.0-02.0	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/19/14 APPROVED: 3/18/14														
ENGR 102	STUDYING ENGR Studying Engineering	SUM/2018 - AUT/9999	1.0-03.0	6.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/07/18 APPROVED: 2/18/14 DROPPED: 2/18/14														
ENGR 105	INTRO ENGR DESIGN Introduction to Engineering Design	WIN/2019 - AUT/9999	3.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/15/18 APPROVED:10/16/18 FEE TYPE:1 \$45.00 BUDGET:069618 REV OBJ CD:943081														
ENGR 115	ENGINEERING HEALTH Engineering Transformation of Health	WIN/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/24/18 APPROVED:10/16/18														
ENGR 120	STARS MATH PROBSOLV STARS Mathematics Problem Solving	AUT/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/16/17 APPROVED:12/13/16														
ENGR 121	STARS CHEM PROBSOLV STARS Chemistry Problem Solving	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT: 3/16/17 APPROVED:12/13/16														
ENGR 122	STARS PHYS PROBSOLV STARS Physics Problem Solving	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/16/17 APPROVED:12/13/16														
ENGR 197	ENGR PROBLEM SOLV Engineering Problem Solving	AUT/1990 - AUT/9999	1.0	12.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/07/97 APPROVED: 9/14/89														
ENGR 199	SPECIAL PROJECTS Special Projects	SPR/1979 - AUT/9999	1.0-03.0	3.0	Y
				LAST UPDT:10/18/06 APPROVED: 1/28/76														

COMMENT:CHG PREQ

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				-ALL U	GRD		U N E	P	L I	E C	M S	N	P & N	C M			
ENGR 201	DIVERSITY ACCESS INC Engineering Diversity, Access and Inclusion	AUT/2019 - AUT/9999	3.0	.	CR/NC
				LAST UPDT:10/18/19		APPROVED: 4/16/19											
ENGR 202	SPECIAL TOPICS Special Topics	SPR/2014 - AUT/9999	1.0-05.0	10.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/19/14		APPROVED: 9/15/82											
				COMMENT:CHG CREDITS													
ENGR 231	INTRO TECH COMM Introduction to Technical Communication	SPR/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/28/17		APPROVED: 3/15/16											
ENGR 296	ENGR STUDY ABROAD Engineering Study Abroad	WIN/2017 - AUT/9999	1.0-06.0	18.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/29/16		APPROVED:11/15/16											
ENGR 297	VERT INT PROJECTS Vertically Integrated Projects	AUT/2016 - SPR/2021	1.0-02.0	8.0	.	.	11	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/11/17		APPROVED: 6/22/16											
ENGR 320	ENGR CO-OP EDUC Engineering Cooperative Education	SUM/2014 - AUT/9999	1.0-10.0	12.0	.	CR/NC	Y	.	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 2/13/19		APPROVED: 6/03/14											
				COMMENT:CONVERSION OF TEMP													
				FEE TYPE:2		\$395.00		BUDGET:069319		REV OBJ CD:943081							
ENGR 321	ENGR INTERN EDUC Engineering Internship Education	AUT/2019 - AUT/9999	1.0-02.0	16.0	Y	CR/NC	.	12	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 6/24/19		APPROVED: 5/30/91											
				FEE TYPE:2		\$500.00		BUDGET:069319		REV OBJ CD:943081							
ENGR 322	ENGR CO-OP SEM Engineering Cooperative Education Postwork Seminar	AUT/1991 - AUT/9999	0.0	.	.	.	22	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/12/17		APPROVED: 5/26/77											
				COMMENT:CHG CREDITS													
ENGR 333	ADVANCED TECH COMM Advanced Technical Communication in the Engineering Workplace	WIN/2020 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/21/19		APPROVED:11/19/19											
ENGR 360	INTRO ACOUSTICS Introductory Acoustics	SPR/1974 - AUT/9999	3.0	Y
				LAST UPDT:10/18/06		APPROVED:11/21/73											

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				-ALL	U		GRD	E	U	N	E	P	&	N			
ENGR 380	SUSTAINABLE DESIGN Design for Sustainability in the Developing World	AUT/2007 - AUT/9999	2.0	8.0	.	CR/NC	Y
				LAST UPDT: 4/26/07		APPROVED: 4/25/07											
ENGR 401	PEERS: ENGR EQUITY Leadership Development to Promote Equity in Engineering Relationships	SPR/2018 - AUT/9999	3.0	.	CR/NC	.	.	.	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 1/26/18		APPROVED: 12/19/17											
ENGR 496	ENGR STUDY ABROAD Engineering Study Abroad	WIN/2017 - AUT/9999	1.0-06.0	18.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 11/29/16		APPROVED: 11/15/16											
ENGR 497	VERT INT PROJECTS Vertically Integrated Projects	AUT/2016 - SPR/2021	1.0-02.0	10.0	.	.	11	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/11/17		APPROVED: 6/22/16											
ENGR 498	SPECIAL TOPICS Special Topics in Engineering	SPR/1980 - AUT/9999	1.0-05.0	6.0	Y	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 10/18/06		APPROVED: 9/30/73											
COMMENT: CHG CREDITS																	
ENGR 499	SPECIAL PROJECTS Special Projects in Engineering	WIN/1974 - AUT/9999	1.0-03.0	6.0	Y	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 10/18/06		APPROVED: 8/30/73											
ENGR 598	SEMINAR SERIES ENGR Seminar Series in Engineering	WIN/1997 - AUT/9999	1.0	12.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 10/17/96		APPROVED: 10/24/96											
ENGR 601	INTERNSHIP Internship	AUT/2019 - AUT/9999	1.0-02.0	24.0	.	CR/NC	.	11	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 6/06/19		APPROVED: 9/17/13											
				FEE TYPE: 2 \$545.00 BUDGET: 069319 REV OBJ CD: 943081													

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COLLEGE : J - Engineering
 DEPARTMENT: HUMAN CTR DESIGN & ENGR

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				-ALL	U	GRD	E	U	N	E	P	&	N	C	M				S
HCDE 318	INTRO USER CENT DES Introduction to User-Centered Design	AUT/2014 - AUT/9999	5.0	
				LAST UPDT: 6/04/14				APPROVED: 6/03/14											
HCDE 321	PROF PORTFOLIO Professional Portfolio	WIN/2019 - AUT/9999	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/22/18				APPROVED:12/20/11											
HCDE 322	ORG TEAMWORK Organizational Teamwork	AUT/2014 - AUT/9999	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/04/14				APPROVED: 6/03/14											
HCDE 333	ADV TEC WRIT & ORAL Advanced Technical Writing and Oral Presentation	AUT/2009 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/15/09				APPROVED: 6/15/99											
				COMMENT:WAS T C 333 1-2009, CHG DESC															
HCDE 398	SPECIAL TOPICS Special Topics	WIN/2019 - AUT/9999	1.0-05.0	10.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/20/18				APPROVED: 9/18/18											
HCDE 407	SOFTWARE USER ASST Software User Assistance	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/15/09				APPROVED:12/01/89											
				COMMENT:WAS T C 407 1-09, CHG DESC															
HCDE 408	PROPOSALS AND EIS Public Documents: Proposals, EISs, Assessments	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/27/09				APPROVED:12/01/89											
				COMMENT:WAS T C 408															
HCDE 409	WRITING FOR PUB WRITING FOR PUBLICATION	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/27/09				APPROVED:12/01/89											
				COMMENT:WAS T C 409															
HCDE 411	INFO VISUALIZATION Information Visualization	SPR/2018 - AUT/9999	5.0	.	.	.	.	.	Y	Y	Y	.	.	.	.	.	.	.
				LAST UPDT: 8/16/18				APPROVED:12/01/89											
				FEE TYPE:1 \$50.00 BUDGET:069657 REV OBJ CD:943081															
HCDE 412	QUAL RSRCH METHODS Qualitative Research Methods in HCDE	SPR/2018 - AUT/9999	5.0	
				LAST UPDT: 2/23/18				APPROVED:12/19/17											

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				-ALL	U		GRD	E	U	N	E	P	& N	C			
HCDE 417	USABILITY RESEARCH Usability Research Techniques	WIN/2017 - AUT/9999	5.0	Y
				LAST UPDT: 5/24/16 APPROVED: 1/31/05 FEE TYPE:1 \$50.00 BUDGET:069657 REV OBJ CD:943081													
HCDE 418	ADV PROJ IN HCDE Advanced Projects in Human Centered Design and Engineering	AUT/2018 - AUT/9999	5.0	10.0	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/22/18 APPROVED: 1/31/05 FEE TYPE:1 \$50.00 BUDGET:069657 REV OBJ CD:943081													
HCDE 419	CONCEPTS IN HCI Concepts in Human-Computer Interaction	AUT/2015 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 3/16/15 APPROVED: 1/31/05 FEE TYPE:1 \$50.00 BUDGET:069657 REV OBJ CD:943081 COMMENT:EMAIL PREQ CHG													
HCDE 421	CURRENT PRACTICE TC Current Practices in Technical Communication	AUT/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/16/10 APPROVED: 9/21/04 COMMENT:CHG TITLES, DESC													
HCDE 422	STYLE IN TECH COMM Style in Technical Communication	AUT/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/16/10 APPROVED:12/15/05 COMMENT:CHG TITLES, DESC													
HCDE 423	TECH EDIT &DOC DEVL Introduction to Technical Editing	AUT/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/16/10 APPROVED: 9/21/04 COMMENT:CHG TITLES, DESC													
HCDE 424	AUTHOR & PROD TOOLS The Computer in Technical Communication	AUT/2010 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/16/10 APPROVED: 9/21/04 COMMENT:CHG TITLES, DESC													
HCDE 426	SOFTWARE USER ASST Software User Assistance	AUT/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/16/10 APPROVED: 9/21/04 COMMENT:CHG TITLES, DESC													
HCDE 427	VISUAL DESIGN IN TC Production Editing	AUT/2010 - AUT/9999	4.0
				LAST UPDT: 2/16/10 APPROVED: 9/21/04 COMMENT:CHG TITLES, DESC													

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				-ALL U	GRD		E	U N E	P & A	N S W	C M T	E C P	Q S R			
HCDE 492	CAPSTONE PLANNING Capstone Planning	WIN/2018 - AUT/9999	2.0
				LAST UPDT: 1/25/18		APPROVED: 3/18/14										
HCDE 493	SENIOR CAPSTONE Senior Capstone	WIN/2017 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT: 5/24/16		APPROVED: 6/30/95		FEE TYPE:1 \$50.00 BUDGET:069657 REV OBJ CD:943081								
HCDE 495	INTERNSHIP Internship	SPR/2018 - AUT/9999	3.0-10.0	10.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/21/17		APPROVED:12/01/89										
HCDE 496	RESEARCH IN HCDE Directed Research in Human Centered Design and Engineering	AUT/2009 - AUT/9999	1.0-05.0	10.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/15/09		APPROVED:11/26/01		COMMENT:WAS T C 496 1-09, CHG TITLES								
HCDE 497	STUDY ABROAD: HCDE Study Abroad: Human Centered Design and Engineering	AUT/2009 - AUT/9999	3.0-05.0	15.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/15/09		APPROVED: 1/03/01		COMMENT:WAS T C 497 1-09, CHG TTL,DESC								
HCDE 498	ADV SPECIAL TOPICS Advanced Special Topics	WIN/2019 - AUT/9999	1.0-05.0	10.0	Y	.	.	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 9/20/18		APPROVED:12/01/89		FEE TYPE:1 \$50.00 BUDGET:069657 REV OBJ CD:943081								
HCDE 499	SPECIAL PROJECTS Special Projects	AUT/2009 - AUT/9999	1.0-05.0	10.0	Y	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/15/09		APPROVED:12/01/89		COMMENT:WAS T C 499 1-09, CHG DESC								
HCDE 501	THEORETICAL FNDTNS Theoretical Foundations of Human Centered Design and Engineering	AUT/2009 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/15/09		APPROVED:12/01/89		COMMENT:WAS T C 501 1-09, CHG TTL,DESC								
HCDE 502	EMPIRICAL TRADITIONS Empirical Traditions in Human Centered Design and Engineering	AUT/2009 - AUT/9999	4.0
				LAST UPDT: 6/15/09		APPROVED: 5/24/93		COMMENT:WAS T C 502 1-09, CHG TTL,DESC								

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				-ALL U	GRD		U	GRD	E	U	N	E	P	& N			
HCDE 532	WEB DESIGN STUDIO Web Design Studio	AUT/2014 - AUT/9999	2.0
				LAST UPDT: 3/19/14		APPROVED: 3/18/14											
HCDE 534	DES HUM CEN VEN Designing a Human Centered Venture	WIN/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/19/12		APPROVED:12/18/12											
HCDE 535	CONTENT MANAGEMENT CONTENT MANAGEMENT	AUT/2009 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/27/09		APPROVED: 6/25/03											
				COMMENT:WAS T C 535													
HCDE 536	INTER DESIGN PROTO Interaction Design and Prototyping	SUM/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/29/18		APPROVED:11/20/12											
HCDE 537	USER-CTR WEB DESIGN User-Centered Web Design	SPR/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/10/19		APPROVED: 9/24/03											
HCDE 538	DES BEHAVIOR CHANGE Designing for Behavior Change	SPR/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/10/19		APPROVED: 4/17/18											
HCDE 539	PHYS COMP & PROTO Physical Computing and Prototyping	SUM/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/04/14		APPROVED: 6/03/14											
HCDE 541	INTRO HCDE PHD STUDY Introduction to PhD Studies in HCDE	AUT/2019 - AUT/9999	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/30/19		APPROVED: 2/28/12											
HCDE 542	THEORY FOUNDATIONS Theoretical Foundations in Human Centered Design and Engineering	AUT/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/29/12		APPROVED: 2/28/12											
HCDE 543	EMPIRICAL TRADITNS Empirical Traditions in Human Centered Design and Engineering	AUT/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/29/12		APPROVED: 2/28/12											
HCDE 544	RESEARCH METHODS I Research Methods I	AUT/2012 - AUT/9999	4.0
				LAST UPDT: 2/29/12		APPROVED: 2/28/12											

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				-ALL U	GRD	E	D	U N E	P	N	C	M	S	N	A				S	W	T
HCDE 545	RESEARCH METHODS II Research Methods II	AUT/2012 - AUT/9999	4.0
				LAST UPDT: 2/29/12		APPROVED: 2/28/12															
HCDE 546	DESIGN THINKING Design Thinking	AUT/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/29/12		APPROVED: 2/28/12															
HCDE 547	ACAD RES SEMINAR Academic Research Seminar	AUT/2019 - AUT/9999	1.0	10.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/06/19		APPROVED: 2/28/12															
HCDE 548	ADV TOPICS HCDE Advanced Topics in Human Centered Design and Engineering	AUT/2012 - AUT/9999	4.0	20.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/29/12		APPROVED: 2/28/12															
HCDE 592	CAPSTONE PLANNING Capstone Planning	SUM/2019 - AUT/9999	1.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/10/19		APPROVED: 3/18/14															
HCDE 593	CAPSTONE Capstone	SUM/2019 - SUM/2020	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/03/20		APPROVED: 8/21/12															
				FEE TYPE:1 \$50.00 BUDGET:069657 REV OBJ CD:943081																	
HCDE 593	CAPSTONE Capstone	AUT/2020 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/03/20		APPROVED: 8/21/12															
				FEE TYPE:1 \$50.00 BUDGET:069657 REV OBJ CD:943081																	
HCDE 596	RESEARCH IN HCDE Directed Research in Human Centered Design and Engineering	AUT/2009 - AUT/9999	1.0-05.0	18.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/15/09		APPROVED: 11/26/01															
				COMMENT:WAS T C 596 1-09, CHG TTL,DESC																	
HCDE 597	TEACHING TECH COMM Approaches to Teaching Technical Communication	AUT/2009 - AUT/9999	1.0-02.0	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/15/09		APPROVED: 1/29/98															
				COMMENT:WAS T C 597 1-09, CHG DESC																	
HCDE 598	SPECIAL TOPICS Special Topics	SPR/2018 - AUT/9999	1.0-05.0	15.0	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 10/23/18		APPROVED: 4/01/86															
				FEE TYPE:1 \$50.00 BUDGET:069657 REV OBJ CD:943081																	

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COLLEGE : J - Engineering
 DEPARTMENT: INDUSTRIAL & SYSTEMS ENGR

CURRIC NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D		D	S H F			V L R					RESPONS COURSE	JOINT COURSES	O M I T			
				-ALL	U		GRD	E	U	N	E	P	&	N				C	M	S	N
IND E 101	INTRODUCTION TO IE Introduction to Industrial Engineering	SPR/2002 - AUT/9999	1.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/29/02		APPROVED: 1/28/02														
IND E 250	ENGR ECON Fundamentals of Engineering Economy	AUT/1999 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:WAS ENGR 250			LAST UPDT:10/18/06		APPROVED: 3/15/99														
IND E 295	PRODUCT DISSECTION PRODUCT DISSECTION	SPR/1996 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	M E	295	M E	295		
				LAST UPDT: 2/11/08		APPROVED:12/27/95														
IND E 315	PROB & STAT FOR ENG Probability and Statistics for Engineers	SPR/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:EMAIL PREQ CHG			LAST UPDT: 3/04/16		APPROVED: 3/15/99														
IND E 316	DESIGN EXPRMNTS Design of Experiments	WIN/2020 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	IND E 316	STAT	316	.		
				LAST UPDT: 6/06/19		APPROVED: 1/29/87														
IND E 321	STAT QUAL CONTROL Statistical Quality Control	WIN/2005 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:WAS IND E 421;CHG CREDITS			LAST UPDT: 3/04/16		APPROVED:12/18/86														
IND E 337	INTRO MANU SYSTEMS Introduction to Manufacturing Systems	WIN/2005 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:WAS IND E 237; CHG CREDITS			LAST UPDT: 1/24/17		APPROVED:12/18/86		FEE TYPE:1 \$100.00 BUDGET:068557 REV OBJ CD:943081												
IND E 351	HUMAN FACTORS Human Factors in Design	WIN/2005 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG CREDITS, CONTACT HRS			LAST UPDT: 8/26/04		APPROVED:12/18/86														
IND E 410	LINEAR & NETWORK PR Linear and Network Programming	SPR/2007 - AUT/9999	4.0		
	COMMENT:WAS IND E 310			LAST UPDT: 9/28/09		APPROVED:12/18/86														

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COLLEGE : J - Engineering
 DEPARTMENT: INDUSTRIAL & SYSTEMS ENGR

CURRIC NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D				S H F			V L E E W					RESPONS COURSE	JOINT COURSES	O M I T
				-ALL U	GRD	E	D	U N E	M R E	P & A	N S	C W	M T	S P	R G			
IND E 494	DES IN MANUF FIRM Design in the Manufacturing Firm	WIN/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:EMAIL PREQ CHG																	
IND E 495	I E DESIGN Industrial Engineering Design	WIN/2005 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:CHG CREDITS, CONTACT HRS																	
IND E 496	TECH-BASED ENTREP Technology-Based Entrepreneurship	SPR/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	IND E 496 M E	496	.
	COMMENT:EMAIL PREQ CHG																	
IND E 498	SPECIAL TOPICS I E Special Topics in Industrial Engineering	SUM/2011 - AUT/9999	1.0-05.0	9.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:EMAIL PREQ CHG																	
IND E 499	SPECIAL PROJECTS IE Special Projects	AUT/2010 - AUT/9999	2.0-05.0	12.0	Y	.	.	.	.	.	.	.	.	.			.
	COMMENT:CHG MAX CREDITS																	
IND E 508	STOC PROC IN ENGR Stochastic Processes in Engineering	WIN/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	E E 508 E E	508	.
	COMMENT:ADD JT TO EXISTING E E 508																	
IND E 512	OPTIMIZATION MODELS Introduction to Optimization Models	AUT/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:END INITIAL DL																	
IND E 513	LINEAR OPT ENG MODL Linear Optimization Models in Engineering	AUT/1999 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:CONV TEMP TO PERM																	
IND E 515	FUNDAMNTL OPTIMIZTN Optimization: Fundamentals and Applications	WIN/2019 - AUT/9999	5.0	AMATH 515 MATH	515	.	
															AMATH 515			

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COLLEGE : J - Engineering
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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			
IND E 570	SUPPLY CHAIN SYST Supply Chain Systems	AUT/2000 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/02/00		APPROVED: 5/31/00											
IND E 581	NAVIGATING BUSINESS Navigating the Business Environment	AUT/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/22/10		APPROVED: 6/15/10											
IND E 582	TECH LEADERSHIP Technical Leadership	WIN/2011 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/22/10		APPROVED: 6/15/10											
IND E 583	DECISION ANALYSIS Decision Analysis in Engineering	AUT/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/19/12		APPROVED:12/18/12											
	COMMENT:END INITIAL DL																
IND E 584	PROJECT PERFORMANCE Project Performance	WIN/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/19/12		APPROVED:12/18/12											
	COMMENT:END INITIAL DL																
IND E 585	SYSTEMS ARCH & MBSE Systems Architecture and Model-Based Systems Engineering	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/20/15		APPROVED:12/15/15											
IND E 586	ENGR RISK MGMT Systems Engineering Risk: Assessment and Management	SUM/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/26/18													
IND E 591	SEMINAR Seminar	AUT/2002 - AUT/9999	1.0	.	CR/NC	.	13	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/09/02		APPROVED: 6/28/93											
	COMMENT:CHG CREDITS, DESCRIPT.																
IND E 592	SEMINAR Seminar	AUT/2002 - AUT/9999	1.0	.	CR/NC	.	23	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/09/02		APPROVED: 6/28/93											
	COMMENT:CHG CREDITS, DESCRIPT																
IND E 593	SEMINAR Seminar	AUT/2002 - AUT/9999	1.0	.	CR/NC	.	33
				LAST UPDT:12/27/01		APPROVED: 6/28/93											
	COMMENT:CHG DESCRIPTION																

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COLLEGE : J - Engineering
DEPARTMENT: MECHANICAL ENGR

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
M E	405	INT PLASTIC FORMING INTRODUCTION TO PLASTIC METAL FORMING	SPR/1980 - AUT/9999 3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/20/06		APPROVED: 6/07/79											
M E	406	CORR&SURF TRT MTRLS Corrosion and Surface Treatment of Materials	WIN/1976 - AUT/9999 3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/20/06													
				COMMENT:CHG DESC													
M E	409	NUM CONTROL & CAM Introduction to Numerical Control and Computer-Aided Manufacturing	SPR/2002 - AUT/9999 3.0	.	.	.	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT: 8/14/12		APPROVED: 3/19/87											
				COMMENT:GENCAT REVIEW PREREQ CHANGE FEE TYPE:1 \$35.00 BUDGET:069397 REV OBJ CD:943081													
M E	410	NANODEVICES Nanodevices: Design and Manufacture	SPR/2012 - AUT/9999 3.0	.	.	.	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT: 3/27/18		APPROVED: 1/17/12											
				FEE TYPE:1 \$30.00 BUDGET:069397 REV OBJ CD:943081													
M E	411	BIOFRAMEWORKS Biological Frameworks for Engineers	SPR/2012 - AUT/9999 3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/29/12		APPROVED: 2/28/12											
M E	412	BIOMECH MOVEMENT Biomechanics of Movement	WIN/2018 - AUT/9999 3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/01/17		APPROVED:10/18/16											
M E	414	ENG INNOV HLTH Engineering Innovation in Health	AUT/2019 - AUT/9999 4.0	.	.	.	.	.	.	.	.	.	.	M E	414 E E	414 .
				LAST UPDT: 6/06/19		APPROVED: 6/07/16											
M E	415	DESIGN FOR ENVIR Sustainability and Design for Environment	AUT/2009 - AUT/9999 3.0	.	.	.	.	.	.	.	.	.	.	M E	415 CEE	495 .
				LAST UPDT: 8/12/09		APPROVED: 5/21/01											
				COMMENT:CHG JT STATUS ENVIR 415													
M E	419	BIOMECH SEMINAR Biomechanics Seminar	WIN/2018 - AUT/9999 1.0	4.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/04/17		APPROVED:10/17/17											
M E	424	COMBUSTION SYSTEMS COMBUSTION SYSTEMS AND POLLUTANT FORMATION	AUT/1997 - AUT/9999 4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT: 8/14/12		APPROVED:11/20/80											
				COMMENT:CHANGE DESCRIPTION FEE TYPE:1 \$30.00 BUDGET:069397 REV OBJ CD:943081													

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				-ALL U	GRD		U N E	P	& N C M S N	A	S	W	T	P			
M E 440	ADV MECH OF MATLS Advanced Mechanics of Materials and Solids	WIN/2019 - AUT/9999	3.0
				LAST UPDT: 8/10/18		APPROVED: 2/22/99											
M E 442	RENEWABLE ENERGY Renewable Energy	SPR/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	M E 442	CHEM E442	.	.
				LAST UPDT: 3/19/14		APPROVED: 5/24/93											
				COMMENT:CHG PREQ - JT STATUS													
M E 445	INTRO TO BIOMECH Introduction to Biomechanics	SPR/2001 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	BIOEN 440	BIOEN 440	.	.
				LAST UPDT:12/07/00		APPROVED:12/30/98											
				COMMENT:CHG TITLES, CREDITS, COURSE DE													
M E 450	INTRO COMP MATL DES Introduction to Composite Materials and Design	AUT/1996 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/14/12		APPROVED:10/22/87											
				COMMENT:CHANGE PREREQ, DESCRIPTION FEE TYPE:1 \$50.00 BUDGET:069397 REV OBJ CD:943081													
M E 459	INTRO FRACT MECH Introduction to Fracture Mechanics	SPR/2002 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/20/06		APPROVED: 1/24/96											
				COMMENT:GENCAT REVIEW PREREQ CHANGE													
M E 460	KIN & LINKAGE DESGN Kinematics and Linkage Design	WIN/1971 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/12/08													
M E 461	THIN FILMS Mechanics of Thin Films	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/21/12		APPROVED: 3/20/12											
M E 465	WELDING DESIGN WELDING DESIGN	SPR/1970 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/22/09													
M E 468	AIR P CONT DESIGN Air-Pollution Control Equipment Design	SUM/2000 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	CEE 494	CHEM E468	.	.
				LAST UPDT: 5/30/19		APPROVED:12/01/99											
				COMMENT:CHG CREDITS, PREQ													
M E 469	APPL OF DYN IN ENGR Applications of Dynamics in Engineering	AUT/1986 - AUT/9999	4.0
				LAST UPDT:10/20/06													

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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						
M E 470	MECHANICAL VIBRATNS Mechanical Vibrations	SPR/1985 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 0/00/00																	
M E 471	AUTOMATIC CONTROL Automatic Control	WIN/1990 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.
LAST UPDT: 8/14/12																	
COMMENT:CHG CREDITS, DESC FEE TYPE:1 \$25.00 BUDGET:069397 REV OBJ CD:943081																	
M E 473	INSTRUMENTATION Instrumentation	AUT/2000 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.
LAST UPDT: 8/14/12																	
COMMENT:CHG CREDITS, CRS DESCRIPT FEE TYPE:1 \$25.00 BUDGET:069397 REV OBJ CD:943081																	
M E 474	SYST MOD AND SIMULA SYSTEMS MODELING AND SIMULATION	SPR/1980 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT:10/20/06 APPROVED: 4/12/73																	
COMMENT:CHG DESC																	
M E 477	EMBEDDED COMPUTING Embedded Computing in Mechanical Systems	AUT/2008 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.
LAST UPDT: 8/14/12 APPROVED: 6/23/83																	
COMMENT:CHG DESC PER 08-10 CAT UPDATE FEE TYPE:1 \$25.00 BUDGET:069397 REV OBJ CD:943081																	
M E 478	FINTE ELEMENT ANLYS Finite Element Analysis	AUT/2002 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.
LAST UPDT: 8/14/12 APPROVED:12/19/85																	
COMMENT:GENCAT REVIEW PREREQ CHANGE FEE TYPE:1 \$22.00 BUDGET:069397 REV OBJ CD:943081																	
M E 480	CAD TECHNOLOGY Introduction to Computer-Aided Technology	SPR/2010 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.
LAST UPDT: 8/14/12 APPROVED: 5/24/84																	
COMMENT:EMAIL PREQ CHG FEE TYPE:1 \$75.00 BUDGET:069397 REV OBJ CD:943081																	
M E 481	IC ENGINES Internal Combustion Engines	SPR/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 3/03/14																	
COMMENT:CHG TITLES, DESC, PREQ																	
M E 485	ELECTRNC PACKAGING Introduction to Electronic Packaging and Materials	WIN/1997 - AUT/9999	3.0	.	.	.	.	Y	.	.	.	.	.	M E 485 MSE 485	.	.
LAST UPDT: 8/14/12 APPROVED: 4/29/96																	
FEE TYPE:1 \$50.00 BUDGET:069397 REV OBJ CD:943081																	

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				-ALL	U		GRD	E	U	N	E	P	&	N				C
M E 487	ELECT PKG LAB Laboratory in Electronic Packaging and Materials	WIN/2000 - AUT/9999	1.0	Y	M E 487 MSE 487	.		
				LAST UPDT: 8/14/12 APPROVED: 2/03/99														
				FEE TYPE:1 \$75.00 BUDGET:069397 REV OBJ CD:943081														
M E 490	NAVAL ARCHITECTURE Naval Architecture	WIN/1988 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/08/18 APPROVED:12/01/87														
M E 491	NAVAL ARCHITECTURE Naval Architecture	SPR/1988 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/08/18														
				COMMENT:DROP JT														
M E 492	NAVAL ARCHITECTURE Naval Architecture	WIN/1988 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/08/18														
				COMMENT:DROP JT														
M E 494	MECHATRONICS PREP Mechatronics Design Preparation	SPR/2012 - AUT/9999	1.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/03/12 APPROVED:12/20/11														
M E 495	MECH ENGR DESIGN Mechanical Engineering Design	AUT/1986 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT: 8/14/12 APPROVED: 5/06/71														
				COMMENT:CHG CREDITS, PREQS														
				FEE TYPE:1 \$75.00 BUDGET:069397 REV OBJ CD:943081														
M E 496	TECH-BASED ENTREPRE Technology-Based Entrepreneurship	SPR/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	IND E 496 IND E 496	.		
				LAST UPDT: 2/14/13 APPROVED: 1/24/96														
				COMMENT:EMAIL PREQ CHG														
M E 498	SPEC TPCS MECH ENGR Special Topics in Mechanical Engineering	AUT/1972 - AUT/9999	1.0-05.0	6.0	Y	.	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT: 8/14/12 APPROVED: 4/27/72														
				FEE TYPE:1 \$75.00 BUDGET:069397 REV OBJ CD:943081														
M E 499	SPECIAL PROJECTS Special Projects	SPR/2018 - AUT/9999	1.0-05.0	6.0	Y	.	.	Y		
				LAST UPDT: 1/25/18														
				FEE TYPE:1 \$50.00 BUDGET:069397 REV OBJ CD:943081														

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						-ALL U	GRD E						
M E	500	ADV COMPOSITE STRUC Advanced Composite Structural Analysis	SPR/2012 - AUT/9999		3.0		A A	535 A A	535 .
						LAST UPDT: 2/29/12		APPROVED: 2/28/12					
M E	501	MFG PROCESSES Modern Manufacturing Processes	AUT/1999 - AUT/9999		3.0	.	.	. . .	. . . . .				.
						LAST UPDT: 2/08/99		APPROVED: 2/03/99					
M E	502	PLAST AND MET FORM PLASTICITY AND METAL FORMING	SPR/1992 - AUT/9999		3.0	.	.	. . .	. . . . .				.
						LAST UPDT:10/23/06				COMMENT:CHG TITLES, PREQ			
M E	503	CONTINUUM MECH Continuum Mechanics	AUT/2009 - AUT/9999		3.0	.	.	. . .	. . . . .		A A	503 A A	503 .
						LAST UPDT: 4/20/09		APPROVED: 4/21/09					
M E	504	INTRO TO MEMS Introduction to Microelectro Mechanical Systems	SUM/2019 - AUT/9999		4.0	.	.	. . .	. . . . .		E E	504 MSE	504 .
						LAST UPDT:12/20/18		APPROVED: 9/20/99		E E 504			
M E	507	INCOMP FLUID MECH Incompressible Fluid Mechanics	SPR/2018 - AUT/9999		3.0	.	.	. . .	. . . . .		A A	507 A A	507 .
						LAST UPDT:10/18/17							
M E	508	MEASUREMENT SYSTEMS Theory and Design for Mechanical Measurements	WIN/2005 - AUT/9999		3.0	.	.	. . .	. . . . .				.
						LAST UPDT:11/24/04		APPROVED:11/23/04					
M E	510	MATH FOUND SYST THR Mathematical Foundations of Systems Theory	AUT/2014 - AUT/9999		4.0	.	.	. . .	. . . . .		E E	510 A A	510 .
						LAST UPDT: 7/31/14		APPROVED:10/24/91		E E 510 CHEM E 510			
M E	511	BIOFRAMEWORKS Biological Frameworks for Engineers	SPR/2012 - AUT/9999		3.0	.	.	. . .	. . . . .				.
						LAST UPDT: 2/29/12		APPROVED: 2/28/12					
M E	512	BIOMECH MOVEMENT Biomechanics of Movement	WIN/2018 - AUT/9999		3.0
						LAST UPDT:11/01/17		APPROVED:10/18/16					

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				-ALL U	GRD		U N E	P	& N C M S N	A S W T P R G							
M E 514	ENG INNOV HLTH Engineering Innovation in Health	AUT/2018 - AUT/9999	4.0
				LAST UPDT: 7/02/18		APPROVED: 6/05/18											
M E 515	LIFE CYCLE ASSESS Life Cycle Assessment	AUT/2008 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/19/08		APPROVED: 3/18/08											
M E 516	ADV MFG ENERGY TECH Advanced Manufacturing and Energy Technologies	SPR/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/23/18		APPROVED: 12/19/17											
M E 518	SEMINAR IN MFG MGMT SEMINARS IN MANUFACTURING AND MANAGEMENT	AUT/1999 - AUT/9999	1.0	.	.	.	.	.	.	.	.	.	.	M E 518	IND E 518	.	.
				LAST UPDT: 10/23/06													
				COMMENT: CHANGE TITLE CRDTS DESCP HYPH													
M E 519	BIOMECH SEMINAR Biomechanics Seminar	WIN/2018 - AUT/9999	1.0	4.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 12/04/17		APPROVED: 10/17/17											
M E 520	SEMINAR Seminar	AUT/2018 - AUT/9999	1.0	20.0	Y	CR/NC	.	22	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/25/18													
M E 521	THERMODYNAMICS Thermodynamics	AUT/1975 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 10/23/06													
				COMMENT: CHG TITLES													
M E 522	THERMODYNAMICS Thermodynamics	SPR/1994 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 10/23/06													
				COMMENT: CHANGE DESCRIPTION													
M E 523	ENERGY ENVIR SEMINAR Energy and Environment Seminar	AUT/2000 - AUT/9999	1.0	20.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/15/00		APPROVED: 2/28/94											
				COMMENT: CHG DESCRIPT, TITLES													
M E 524	COMBUSTION Combustion	SPR/1971 - AUT/9999	3.0
				LAST UPDT: 0/00/00													

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COLLEGE : J - Engineering
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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		U	GRD	E	U	N	E	P	&				N	C	M	S	N
M E	546 MICRO HEAT TRANSFER Micro-Scale Heat Transfer	SPR/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/29/12		APPROVED:12/20/11											
M E	547 LINEAR SYSTEMS Linear Systems Theory	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	E E	547 A A	547	.
				LAST UPDT:12/20/18										E E		547	.
M E	548 LIN MULTVAR CONTROL Linear Multivariable Control	AUT/2005 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	E E	548 A A	548	.
COMMENT: CHG PREREQ				LAST UPDT: 3/21/16										E E		548	.
M E	549 ST EST & KALMAN FLTR Estimation and System Identification	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	E E	549 A A	549	.
COMMENT:EMAIL PREQ CHG				LAST UPDT: 3/21/16		APPROVED: 9/19/81											
M E	550 NONLIN OPT CONTROL Nonlinear Optimal Control	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	E E	550 A A	550	.
COMMENT:14-16 PREQ CHG				LAST UPDT: 7/31/14		APPROVED: 2/28/92											
M E	551 ELASTICITY I Elasticity I: Elastostatics	AUT/1992 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:CHG TITLES, DESC				LAST UPDT:10/23/06													
M E	552 VISCOELASTICITY Viscoelasticity and Plasticity	SPR/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:CHG TITLES, DESC				LAST UPDT:12/19/11		APPROVED: 3/31/92											
M E	553 ADHESION MECHANICS Adhesion Mechanics	SPR/1986 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/23/06		APPROVED: 6/27/85											
M E	555 THERMOELASTICITY Thermoelasticity	SPR/1994 - AUT/9999	3.0
COMMENT:CHANGE DESCRIPTION				LAST UPDT:10/23/06													

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CURRIC	NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D		D	S H F			V	L	E	W	R	RESPONS	JOINT	I
					-ALL	U		GRD	E	U								
M E	580	GEOMETRIC METHODS Geometric Methods for Non-Linear Control Systems	SPR/2007 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	A A	580 E E	580 .
LAST UPDT: 2/25/16 APPROVED: 2/21/07																		
M E	581	DIGITAL CONTROL SYS Digital Control System Design	WIN/2017 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	M E	581 A A	581 .
LAST UPDT: 6/13/16 APPROVED: 4/29/96																		
FEE TYPE:1 \$50.00 BUDGET:069397 REV OBJ CD:943081																		
M E	582	DISCRETE EVENT SYS Introduction to Discrete Event Systems	AUT/2005 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	M E	582 A A	582 .
LAST UPDT:10/23/06 APPROVED: 4/29/96																		
COMMENT:CHG TITLES, DESCRIP, PREREQ																		
M E	583	NONLINEAR CONTR SYS Nonlinear Control Systems	AUT/2005 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	E E	583 A A	583 .
LAST UPDT: 3/21/16																		
COMMENT:CHANGE JOINT STATUS,DESC,PRERE																		
M E	584	COMBUS AIRB PROPLSN COMBUSTION IN AIRBREATHING PROPULSION	AUT/1992 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT:10/23/06																		
COMMENT:CHG TITLES																		
M E	585	SYS ID & ADAPT CTRL System Identification and Adaptive Control	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	E E	585 A A	585 .
LAST UPDT: 4/24/12 APPROVED: 3/29/05																		
COMMENT:EMAIL PREQ CHG																		
M E	586	BIO INSPIRED ROBOT Biology Inspired Robotics	AUT/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 2/07/18 APPROVED:12/19/17																		
M E	588	DYNAMCS AND VIBR Dynamics and Vibrations	AUT/1975 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT:10/23/06 APPROVED: 4/01/75																		
COMMENT:WAS M E 568, CHG TITLES																		
M E	589	VIBRATIONS Vibrations	AUT/1975 - AUT/9999	3.0	
LAST UPDT:10/23/06																		
COMMENT:CHG TITLES, DESC																		

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				-ALL U	GRD		U N E	P	& N C M S N	A S W T P R G							
M E 590	VIBRATIONS VIBRATIONS	AUT/1975 - AUT/9999	3.0
	COMMENT:CHG TITLES																
M E 591	ROBOT & CONTR COLL ROBOTICS AND CONTROL SYSTEMS COLLOQUIUM	AUT/1996 - AUT/9999	1.0	30.0 Y	CR/NC	.	.	.	.	.	.	.	.	A A	591 A A	591	.
	COMMENT:CHG TITLES, 5/13 RETRO MAX																
M E 593	FEEDFORWARD CONTROL Feedforward Control	SPR/2006 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	M E	593 A A	593	.
M E 594	ROBUST CONTROL Robust Control	WIN/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	A A	594 E E	594	.
	COMMENT:CHG PREQ																
M E 597	NETWORKED DYN SYS Networked Dynamics Systems	AUT/2008 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	A A	597 E E	597	.
M E 598	GRAD PROJECTS Graduate Projects	WIN/2018 - AUT/9999	1.0-06.0	9.0 Y	.	.	.	.	.	.	.	.	.				.
M E 599	SPECIAL TOPICS Special Topics	WIN/2018 - AUT/9999	1.0-05.0	18.0 Y	.	.	.	.	.	.	.	.	.				.
M E 600	INDEPN DNT STDY/RSCH Independent Study or Research	SUM/1971 - AUT/9999	0.0	999.0	.	.	11	.	.	.	.	.	.				.
M E 700	MASTERS THESIS Master's Thesis	WIN/1970 - AUT/9999	0.0	999.0	.	.	11	.	.	.	.	.	.				.
M E 800	DOCTORAL DISSERTATN Doctoral Dissertation	SUM/1976 - AUT/9999	0.0	999.0	.	.	11

LAST UPDT: 1/10/18
 FEE TYPE:1 \$50.00 BUDGET:069397 REV OBJ CD:943081

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				-ALL	U		GRD	E	U	N	E	P	& N	C			
MSE 170	FUNDMNT MATERLS SCI Fundamentals of Materials Science	AUT/2018 - AUT/9999	4.0	Y
				LAST UPDT: 2/22/18		APPROVED: 6/15/99											
MSE 197	STUDIES MATR INNOV Case Studies in Materials Innovation	SPR/2019 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/19/18		APPROVED:12/18/18											
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	INTEG UNDGRAD LAB 1 Integrated Undergraduate Laboratory I	AUT/2017 - AUT/9999	3.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/10/17		APPROVED: 2/22/93											
				FEE TYPE:1		\$45.00 BUDGET:069332 REV OBJ CD:943081											
MSE 312	INTEG UNDGRAD LAB 2 Integrated Undergraduate Laboratory II	AUT/2017 - AUT/9999	3.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/10/17		APPROVED: 2/22/93											
				FEE TYPE:1		\$45.00 BUDGET:069332 REV OBJ CD:943081											
MSE 313	INTEG UNDGRAD LAB 3 Integrated Undergraduate Laboratory III	AUT/2017 - AUT/9999	3.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/10/17		APPROVED: 2/22/93											
				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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				-ALL U	GRD	E	D		L I	E C	Q T	P & N C M S N									
				MAX	P	SYS	D	HYPH	M	R	E	A	S	W	T	P	R	G			
MSE 476	INTRO OPTOELECT MAT Introduction to Optoelectronic Materials	WIN/2017 - AUT/9999	3.0
MSE 481	NANOSTRUCTURES Science and Technology of Nanostructures	WIN/2005 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MSE 482	BIOMATS, TISSUE ENG Biomaterials/Nanomaterials in Tissue Engineering	WIN/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MSE 483	NANOMEDICINE Nanomedicine	SPR/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MSE 484	ELECT &OPTO POLYMERS Electronic and Optoelectronic Polymers	AUT/2015 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MSE 485	ELECTRNC PACKAGING Introduction to Electronic Packaging and Materials	WIN/1997 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MSE 486	IC TECHNOLOGY Fundamentals of Integrated Circuit Technology	SPR/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MSE 487	ELECT PKG LAB Laboratory in Electronic Packaging and Materials	WIN/2000 - AUT/9999	1.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MSE 488	MATR IN MANUFACTUR Materials in Manufacturing	WIN/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MSE 491	DESIGN MTLs ENGRG I Design in Materials Engineering I	SPR/2007 - AUT/9999	2.0

COMMENT:CHG TITLES, CREDITS, PREQ

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				-ALL U	GRD		U N E	P	& N C	M S N	A S W T P R G						
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	.	.
	COMMENT:CHG JT STATUS			LAST UPDT: 10/17/18		APPROVED: 3/01/90											
MSE 520	SEMINAR Seminar	SPR/1984 - AUT/9999	1.0	6.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:WAS CER E/MET E 520			LAST UPDT: 10/30/06		APPROVED: 11/17/83											
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	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG TITLE & DESCRIPTION			LAST UPDT: 10/30/06		APPROVED: 10/27/89											
MSE 528	PHYSICS VLSI FAB Physics and Modeling of VLSI Fabrication	AUT/2005 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	EE 528	EE 528	.	.
				LAST UPDT: 10/21/16		APPROVED: 5/23/05											
MSE 529	SEMICOND OPTOELEC Semiconductor Optoelectronics	SPR/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	EE 529	EE 529	.	.
				LAST UPDT: 12/20/15													
MSE 539	RENEWABLE ENERGY I Renewable Energy I	WIN/2020 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	ME 539	ME 539	.	.
				LAST UPDT: 12/18/19		APPROVED: 3/20/12											
MSE 541	DEFECTS IN MATERIALS Defects in Materials	WIN/2001 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHANGE TITLES AND PREREQS			LAST UPDT: 10/30/06		APPROVED: 10/27/89											
MSE 545	DATA SCI CLEAN ENRG Data Science Methods for Clean Energy Research	WIN/2019 - AUT/9999	3.0	CHEM E545	CHEM 545	.	.
				LAST UPDT: 12/19/18		APPROVED: 4/18/17		CHEM E 545									

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				-ALL U	GRD		E	U N E	M R E	P & A	N S W	C M T	E C S			
MSE 546	SW ENGR MOL DATA SCI Software Engineering for Molecular Data Scientists	WIN/2019 - AUT/9999	3.0	CHEM E546	CHEM 546	.
				LAST UPDT:12/19/18		APPROVED: 4/18/17									CHEM E 546	
MSE 547	DATA SCI CAPSTONE Data Science Capstone Project	AUT/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	CHEM E547	CHEM 547	.
				LAST UPDT: 6/06/19		APPROVED: 1/22/19									CHEM E 547	
MSE 550	MAGNETIC MATERIALS Magnetism, Magnetic Materials, and Related Technologies	SPR/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:CHG DESC			LAST UPDT: 5/15/12		APPROVED: 2/26/03										
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	WIN/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	MSE 560	CHEM 564	.
				LAST UPDT:10/21/15		APPROVED: 8/20/04									MOLENG 530	
MSE 562	INTRO ELECTRONIC COMP Introduction to Electronic Composites	SPR/1999 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	M E 562	M E 562	.
	COMMENT:CHANGE TITLE & DESCRIPTION			LAST UPDT:10/30/06		APPROVED: 2/23/89										
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	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:10-12 PREQ CHG			LAST UPDT: 5/26/10		APPROVED: 9/20/84										
MSE 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 566	
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										

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					-ALL	U	GRD						
MSE 570	MSE GRAD TUTORIAL I Graduate Tutorial in Materials Science and Engineering I	AUT/2019	- AUT/9999	2.0
				LAST UPDT:	4/24/19	APPROVED:	9/17/13						
MSE 571	MSE GRAD TUTORIAL II Graduate Tutorial in Materials Science and Engineering II	WIN/2019	- AUT/9999	2.0	.	.	.	.	.	.	.	.	.
				LAST UPDT:	12/19/18	APPROVED:	12/18/18						
MSE 576	INTRO OPTOELECT MAT Introduction to Optoelectronic Materials	WIN/2017	- AUT/9999	3.0	.	.	.	.	.	.	.	.	.
				LAST UPDT:	10/25/16	APPROVED:	10/18/16						
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 588	MATR IN MANUFACTUR Materials in Manufacturing	WIN/2019	- AUT/9999	3.0	.	.	.	.	.	.	.	.	.
				LAST UPDT:	1/24/19	APPROVED:	12/18/18						
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	.	.	.	.	.	.	.
COMMENT:CHG MAX CREDITS				LAST UPDT:	12/18/12	APPROVED:	1/29/87						
MSE 600	INDEPENDENT STUDY Independent Study or Research	WIN/1989	- AUT/9999	0.0	999.0	.	.	11	.	.	.	.	.
COMMENT:WAS CER E 600				LAST UPDT:	4/19/10	APPROVED:	6/09/88						
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						

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					-ALL	U		GRD	E	U	N	E	P	&	N			

MSE	800	DOCTORAL DISSERTATN	WIN/1989 - AUT/9999	0.0	999.0	.	.	11
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LAST UPDT: 4/19/10 APPROVED: 6/09/88

COMMENT:WAS CER E 800