

DATE: 04-13-2020
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UNIVERSITY OF WASHINGTON STUDENT RECORDS SYSTEM
 DETAILED CURRICULUM REPORT
 Seattle CAMPUS

REPORT: SR21010-R-01 K
 PAGE: 1,208

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		U N E	P	& N C	M S N	A S W T P R G						
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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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	320 AEROSPACE INSTR Aerospace Instrumentation	AUT/2016 - AUT/9999	3.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/29/20 APPROVED: 5/22/63													
				FEE TYPE:1 \$15.00 BUDGET:069626 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		U	GRD	E	U N E	P & N C M S N	A S W T P R G					
A A	460 PROPULSION Propulsion	AUT/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/17/18		APPROVED:12/30/98											
A A	461 AIRBREATH PROPL Air Breathing Propulsion	WIN/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/01/19													
A A	462 ROCKET PROPULSION Rocket Propulsion	AUT/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/22/19		APPROVED:10/27/89											
A A	470 SYSTEMS ENGINEERING Systems Engineering	AUT/2007 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	IND E 470	IND E 470	.	.
				LAST UPDT: 6/26/07		APPROVED: 6/01/99											
				COMMENT:WAS A A 280, CHG TLS, PRQ,DESC													
A A	480 SYSTEMS DYNAMICS Systems Dynamics	AUT/2000 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/25/18													
				COMMENT:EMAIL PREREQ CHANGE													
A A	481 AEROELASTICITY INTRODUCTION TO AEROELASTICITY	SPR/1994 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/03/97													
				COMMENT:CHANGE DESCRIPTION													
A A	482 AERO ACOUSTICS AERONAUTICAL ACOUSTICS	AUT/1972 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/03/97		APPROVED: 4/27/72											
A A	490 SPACE LAW & POLICY Space Law and Policy	SUM/2019 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	JSIS B444	ESS 488	.	.
				LAST UPDT: 6/21/19		APPROVED: 2/19/19											
				JSIS B 444													
A A	497 AERO INDUSTRY TOUR AEROSPACE INDUSTRY TOUR	SPR/2003 - AUT/9999	1.0	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/19/03		APPROVED: 6/28/00											
				COMMENT:CORRECTION-ADD MAX CREDITS													
A A	498 SPECIAL TOPICS Special Topics	WIN/2007 - AUT/9999	1.0-05.0	15.0	Y
				LAST UPDT: 2/10/17		APPROVED: 6/25/81											
				COMMENT:CHG CREDITS, TITLES													

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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	P	SYS	D	HYPH	M	R	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				C
A A	540	FINITE ELM ANLYS I Finite Element Analysis I	WIN/1984 -	AUT/9999	3.0	
						LAST UPDT: 4/03/97														
						COMMENT:CHANGE DESCRIPTION														
A A	541	FINITE ELM ANLYS II Finite Element Analysis II	WIN/1984 -	SPR/2020	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 4/10/20														
						COMMENT:CHANGE DESCRIPTION														
A A	541	FINITE ELM ANLYS II Finite Element Analysis II	SUM/2020 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 4/10/20														
A A	543	COMPRESSIBLE CFD Computational Fluid Dynamics of Compressible Flows	WIN/2019 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 6/11/18														
A A	544	INCOMPRESSIBLE CFD Computational Fluid Dynamics of Incompressible Flows	WIN/2019 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 6/11/18 APPROVED: 6/23/83														
A A	545	COMP MTHDS PLASMAS Computational Methods for Plasmas	SPR/2007 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT:12/13/06 APPROVED:12/13/06														
A A	546	ADV TPCS CTRL SYST Advanced Topics in Control System Theory	AUT/2005 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 3/31/05 APPROVED: 3/29/05														
A A	547	LINEAR SYSTEMS Linear Systems Theory	AUT/2018 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	E E	547 M E	547	
						LAST UPDT:12/20/18														
																			E E 547	
A A	548	LIN MULTVAR CONTROL Linear Multivariable Control	AUT/2005 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	E E	548 M E	548	
						LAST UPDT: 3/21/16														
						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	
						LAST UPDT: 3/21/16 APPROVED: 9/19/81														
						COMMENT:EMAIL PREQ CHG														
																			E E 549	

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				-ALL U	GRD		U N E	P	& N C M S N	A S W T P R G							
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											
A A 564	KIN THRY RADIAT TR Kinetic Theory/Radiative Transfer	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:WAS A A 503																	
A A 565	FUSION REACTOR FNDM Fusion Reactor Fundamentals	WIN/1993 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:WAS NUC E 565																	
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											
COMMENT:WAS A A 503																	
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											
COMMENT:WAS NUC E 565																	
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											
COMMENT:WAS A A 503																	
A A 581	DIGITAL CONTROL SYS Digital Control System Design	WIN/2017 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	M E 581	E E 581	.	.
				LAST UPDT: 6/13/16		APPROVED: 4/29/96											
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											
COMMENT:CHG TITLES, DESCRIP, PREREQ																	

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				-ALL	U		GRD	E	U	N	E	P	&	N			
A A	583 NONLINEAR CONTR SYS Nonlinear Control Systems	AUT/2005 - AUT/9999	3.0	E E	583 M E	583 .	
	COMMENT:CHANGED JOINT STATUS-NEW A A														E E	583	
A A	585 SYS ID & ADAPT CTRL System Identification and Adaptive Control	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	E E	585 E E	585 .
	COMMENT:EMAIL PREQ CHG														M E	585	
A A	589 SPEC TPCS SOLD MECH Special Topics in Solid Mechanics	AUT/2005 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:WAS A A 583																
A A	590 SPACE LAW & POLICY Space Law and Policy	SUM/2019 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	JSIS B544	ESS	584 .
															JSIS B	544	
A A	591 ROBOT & CONTR COLL Robotics and Control Systems Colloquium	AUT/1996 - AUT/9999	1.0	30.0	Y	CR/NC	.	.	.	.	.	.	.	A A	591 CHEM E	591 .
	COMMENT:5-16 RETRO MAX														E E	591	
															M E	591	
A A	593 FEEDFORWARD CONTROL Feedforward Control	SPR/2006 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	M E	593 E E	593 .
															M E	593	
A A	594 ROBUST CONTROL Robust Control	WIN/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	A A	594 E E	594 .
	COMMENT:CHG PREQ														M E	594	
A A	595 GLBL INT SYS ENGR Global Integrated Systems Engineering	AUT/2016 - AUT/9999	4.0-05.0	9.0	.	.	11	.	.	.	.	.	.	IND E	595 IND E	595 .
A A	596 GISE PROJECT Global Integrated Systems Engineering Project	SPR/2011 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	IND E	596 IND E	596 .
A A	597 NETWORKED DYN SYS Networked Dynamics Systems	AUT/2008 - AUT/9999	3.0	A A	597 E E	597 .	
															M E	597	

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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		U N E	P	& N C M S N	A S W T P R G							
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		U	N	E		L	I	E	C			
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 U MAX	GRD P		GRD SYS	E D	HYPH M	R R	E E	P & N A S	C W	M T				S P	N 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
 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 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		U N E	P	& N C M S N	A S W T P R G							
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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CURRIC NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D		D	S H F			V	E E W				RESPONS COURSE	JOINT COURSES	O M I T
				-ALL U	GRD		U N E	P	N		C	M	S	R			
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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				-ALL U	GRD		U	E	U	N	E	P & A	N & S	C & W			
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

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
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	.	.	.	.
	COMMENT:12-14 PREQ & DESC CHG			LAST UPDT: 7/10/12		APPROVED:12/01/99														
CEE 250	ENVIRON PROCESSES Environmental Processes and flows	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.
	COMMENT:CHG TTLS, DESC, CREDITS, PREQ			LAST UPDT: 9/06/12		APPROVED: 1/20/09														
CEE 291	AUTOCAD Introduction to AutoCAD for Civil Engineers	WIN/2019 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.
	COMMENT:END INITIAL DL			LAST UPDT: 2/03/17		APPROVED: 2/17/15														
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	SPECIAL TOPICS Special Topics in Civil and Environmental Engineering	AUT/2012 - AUT/9999	1.0-05.0	10.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/10/20		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	.	.	.	.
	COMMENT:CHANGE DESCRIPTION			LAST UPDT: 2/07/14		APPROVED:12/01/99														
				FEE TYPE:1		\$25.00 BUDGET:069327		REV OBJ CD:943081												

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COLLEGE : J - Engineering
DEPARTMENT: CIVIL & ENV ENGINEERING

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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					
CEE 349	ENV ENG STUDIES Case Studies in Environmental Engineering	AUT/2016 - AUT/9999	3.0	
				LAST UPDT: 9/30/16		APPROVED: 6/07/16											
CEE 350	ENV MASS ENERGY BAL Mass and Energy Balances in Environmental Engineering	WIN/2020 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/03/20		APPROVED: 6/07/16											
CEE 352	INTRO MICROB ENV ENG Introduction to Microbial Principles in Environmental Engineering	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/21/17		APPROVED: 6/07/16											
CEE 354	INTRO CHEM ENV ENG Introduction to Chemical Principles in Environmental Engineering	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/02/18		APPROVED: 6/07/16											
CEE 356	SUSTAINABILITY TOOLS Quantitative and Conceptual Tools for Sustainability	SPR/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/29/16		APPROVED: 6/07/16											
CEE 357	ENVIRONMENTAL ENGR Environmental Engineering	WIN/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/06/17		APPROVED: 6/19/12											
CEE 360	SUSTAINABILITY SUSTAINABILITY IN CIVIL ENGINEERING	SPR/2011 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/07/14		APPROVED:12/16/08											
				COMMENT:EMAIL PREQ CHG													
CEE 363	CONSTRN MATERIALS CONSTRUCTION MATERIALS	AUT/2012 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT: 2/07/14		APPROVED:12/01/99											
				COMMENT:12-14 TITLE CHG													
				FEE TYPE:1		\$35.00 BUDGET:069644		REV OBJ CD:943081									
CEE 366	BASIC SOIL MECH BASIC SOIL MECHANICS	AUT/2008 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT: 2/07/14		APPROVED:12/01/99											
				COMMENT:CHG PREQ,DESC VIA 08-10 UPDATE													
				FEE TYPE:1		\$35.00 BUDGET:069644		REV OBJ CD:943081									
CEE 367	GEOTECHNICAL ENGR Geotechnical Engineering	AUT/2012 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT:12/11/12		APPROVED: 6/19/12											
				COMMENT:12-12 ADD FEE													
				FEE TYPE:1		\$35.00 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 377	INTRO STRUCT DESIGN Introduction to Structural Design	AUT/2012 - AUT/9999	5.0
				LAST UPDT: 6/20/12		APPROVED: 6/19/12											
CEE 378	STRUCT ANALYSIS Structural Analysis	SPR/2021 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/20/20		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 408	SUSTAINABLE ROADWAYS Sustainable Roadway Design and Construction	AUT/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/23/20		APPROVED: 3/17/20											
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											

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				-ALL U	GRD		U N E	P	& N C	M S N	A S W T P R G							
CEE 420	ENGR DEVLPING COMM Engineering with Developing Communities	SPR/2015 - AUT/9999	3.0		
				LAST UPDT: 1/07/15		APPROVED:12/16/14												
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												

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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 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																	
CEE 453	PRESTRESSED CON DES Prestressed Concrete Design	WIN/2008 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:EMAIL PREREQ CHANGE LAST UPDT: 7/24/07 APPROVED:12/06/91																	
CEE 454	DSGN TIMBER STRUCTS Design of Timber Structures	WIN/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:EMAIL PREQ CHG LAST UPDT: 2/07/13 APPROVED:12/06/91																	
CEE 455	STRUCT UNIT MASONRY Structural Unit Masonry	SPR/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	CEE 455 ARCH 426	.	.	.
COMMENT:EMAIL PREQ CHG LAST UPDT: 4/04/13 APPROVED:12/01/99																	
CEE 456	STRUCT ANALYSIS Structural Analysis	SPR/2013 - WIN/2021	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:EMAIL PREQ CHG LAST UPDT: 2/20/20 APPROVED: 6/19/12																	
CEE 457	ADV STRUCT I Advanced Structures I	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:14-16 DESC, PREQ CHG LAST UPDT: 7/23/14 APPROVED:12/01/99																	
CEE 458	ADV STRUCT II Advanced Structures II	AUT/2012 - AUT/9999	3.0
COMMENT:12-14 PREQ CHG LAST UPDT: 5/30/19 APPROVED:12/01/99																	

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				-ALL U	GRD		E	U N E	P & N		C M S N	L I	E C Q T				
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			LAST UPDT: 2/02/15		APPROVED:12/01/99		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											
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											

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				-ALL U	GRD		U N E	P & N	C M S N	A S W T P R G							
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											
CEE 523	ADV FOUND ENG Advanced Foundation Engineering	WIN/2001 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:WAS CESM 563			LAST UPDT:10/12/06		APPROVED: 8/23/00											
CEE 529	FOUND SOIL IMPRT Foundation Soil Improvement	WIN/2001 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:WAS CESM 569			LAST UPDT:10/12/06		APPROVED: 8/23/00											
CEE 531	ROCK ENGINEERING Rock Engineering	AUT/2008 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:PREQ CHG PER 08-10 UPDATE			LAST UPDT: 1/02/08		APPROVED: 2/28/94											
CEE 542	BIOREM ENV POLLUT BIOREMEDIATION OF ENVIRONMENTAL POLLUTANTS	AUT/2005 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	CEE 542	MICROM518	.	.
	COMMENT:CHG JT STATUS			LAST UPDT: 7/27/07		APPROVED: 6/28/93											
CEE 548	INDUSTRL WASTE TRT INDUSTRIAL WASTE TREATMENT	WIN/2001 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:WAS CEWA 556			LAST UPDT:10/12/06		APPROVED: 8/23/00											
CEE 558	GAS AIR POLL CONT CONTROL OF GASEOUS AIR POLLUTANTS	WIN/2001 - AUT/9999	3.0	CHEM E566	CHEM E566	.	.
	COMMENT:WAS CEWA 566			LAST UPDT: 2/07/14		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 G						
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
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	A S W T P R G	A S W T P R G	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	M R E	P & A	I S W	E C M S N	Q T P R G					
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 526	ROPEWAY TRANSPORT Ropeway Transportation	WIN/2021 - AUT/9999	1.0	. CR/NC .	. . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	.
				LAST UPDT: 3/23/20		APPROVED: 3/17/20										
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										

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				-ALL U MAX	GRD P	E SYS	D HYPH	U N E M R E	P & N A	C M S W T	S N P R G						
CESI 529	SUPPLEMENTAL PAVE Supplemental Pavement Topics	SUM/2019 - AUT/9999	1.0	.	CR/NC
				LAST UPDT:10/17/18		APPROVED:10/16/18											
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
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		E	U N E	P	& N C M S N	A S W T P R G						
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	&	N			
CET 590	TRAFFIC SYSTMS OPER Traffic Systems Operations	AUT/2017 -	AUT/9999	3.0
					LAST UPDT:		9/27/17		APPROVED:		8/23/00							
CET 591	FREIGHT TRANSPN Freight Transportation	AUT/2017 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT:		9/27/17		APPROVED:		8/23/00							
CET 593	TRANS SYSTM ANALYSIS Transportation System Analysis	SPR/2018 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT:		12/21/17		APPROVED:		12/19/17							
CET 594	Trav Survey Methods Travel Survey Methods	SPR/2018 -	SUM/2020	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT:		3/22/19		APPROVED:		12/19/17							
CET 599	SPECIAL TOPICS Special Topics in Transportation 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			
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/2020	4.0	.	.	.	.	.	.	.	.	.	.	.		.
				LAST UPDT: 2/20/20		APPROVED: 8/23/00											
CEWA 544	PHY CHEM PROC PRINC Physical-Chemical Process Principles	WIN/2021 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.		.
				LAST UPDT: 2/20/20		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/2020	3.0	.	.	.	.	.	.	.	.	.	.	.		.
				LAST UPDT: 2/20/20		APPROVED: 8/23/00											
CEWA 549	PHY CHEM TRT PROC Physical-Chemical Treatment Processes	WIN/2021 - AUT/9999	3.0	
				LAST UPDT: 2/20/20		APPROVED: 8/23/00											

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				-ALL U	GRD		E	U N E	P	& N C M S N	A	S	W	T				P
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												
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												
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												

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				-ALL U	GRD		U N E	P	I	E	C	Q	T	A				S	W	T
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														
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														

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					-ALL	U	GRD	E	D		L I	E C Q T	P & N C M S N	A S W T P R G	COURSE			
CEWA	597	JORDAN STUDY ABROAD	SPR/2018 - AUT/9999	5.0	
		Engineering Jordan: Water in an Arid Land Study Abroad																
					LAST UPDT:12/26/17		APPROVED: 2/19/13											
CEWA	599	SPECIAL TOPICS	WIN/2018 - AUT/9999	1.0-05.0	20.0	.	.	.	.	.	.	.	.	.	.	.	.
		Special Topics in Environmental Engineering																
					LAST UPDT:12/21/17		APPROVED:12/19/17											

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				-ALL U	GRD		U	GRD	E	U	N	E	P	&				N	C	M
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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				-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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				-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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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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				OVER D	D	S H F	L I	E C Q T	P & N C M S N	A S W T P R G	-ALL U	GRD	E	U N E	M R E				
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
	COMMENT:WAS C SCI 498			LAST UPDT:10/13/06 APPROVED: 6/22/89															
CSE 499	READING & RESEARCH Reading and Research	WIN/1990 - AUT/9999	1.0-24.0	24.0	.	CR/NC
	COMMENT:WAS C SCI 499			LAST UPDT:10/13/06 APPROVED: 6/22/89															
CSE 501	PROG LANG AN & IMPL Programming Language Analysis and Implementation	AUT/2014 - AUT/9999	4.0
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14 APPROVED: 6/22/89															
CSE 503	SOFTWARE ENG Software Engineering	AUT/2014 - AUT/9999	4.0
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14 APPROVED: 6/22/89															
CSE 504	ADV TPCS SOFTW ENG Advanced Topics in Software Engineering	AUT/2014 - AUT/9999	4.0
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14 APPROVED:11/29/95															
CSE 505	PRIN OF PROG LANGS Principles of Programming Languages	AUT/2014 - AUT/9999	4.0
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14 APPROVED: 6/22/89															
CSE 506	ADV TOPIC PROG LANG Advanced Topics in Programming Languages	AUT/2014 - AUT/9999	4.0
	COMMENT:14-16 PREQ CHG			LAST UPDT: 9/19/14 APPROVED: 6/22/89															
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
				LAST UPDT: 9/19/14		APPROVED:12/01/89															
CSE 525	RANDOM ALGORITHMS Randomized Algorithms and Probabilistic Analysis	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
				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	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
				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	.
				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	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 9/19/14		APPROVED: 6/22/89															
CSE 532	COMPLEXITY II Computational Complexity II	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
				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
				LAST UPDT: 9/19/14		APPROVED: 6/22/89															

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				-ALL U	GRD		U N E	P & N C M S N	A S W T P R G								
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			
CSE 590	RESEARCH SEMINAR Research Seminar	AUT/2014 - AUT/9999	0.0	50.0	Y	.	.	.	Y
	COMMENT:14-16 PREQ CHG																
CSE 591	GROUP PROJECTS Group Projects in Computer Science	WIN/2009 - AUT/9999	1.0-03.0	25.0	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG MAX CREDITS																
CSE 599	SPECIAL TOPICS Special Topics in Computer Science	AUT/2013 - AUT/9999	1.0-05.0	30.0	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG CREDITS																
CSE 600	INDEPN DNT STDY/RSCH Independent Study or Research	WIN/1990 - AUT/9999	0.0	999.0	.	CR/NC	.	11	.	.	.	.	.	.	.	.	.
	COMMENT:WAS C SCI 600																
CSE 601	INTERNSHIP Internship	SPR/2016 - AUT/9999	1.0-02.0	12.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
CSE 700	MASTERS THESIS Master's Thesis	WIN/1990 - AUT/9999	0.0	999.0	.	CR/NC	.	11	.	.	.	.	.	.	.	.	.
	COMMENT:WAS C SCI 700																
CSE 800	DOCTORAL DISSERTATN Doctoral Dissertation	WIN/1990 - AUT/9999	0.0	999.0	.	CR/NC	.	11
	COMMENT:WAS C SCI 800																

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LAST UPDT:11/19/08 APPROVED: 2/27/04

LAST UPDT: 6/05/13 APPROVED: 2/27/04

LAST UPDT: 4/19/10 APPROVED: 6/22/89

LAST UPDT: 6/06/16 APPROVED: 2/16/16

LAST UPDT: 4/19/10 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
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		U N E	P	& N	C M	S N	A S	W T	P R				G		
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	E	U	N	E	P	&	N			
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	U N E	P & N	L I	E C Q T	M 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 COMMENT:CHANGE DESCRIPTION											
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 COMMENT:CHANGE DESCRIPTION											
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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				-ALL U	GRD		U	GRD	E	U N E	P & N C M S N	A S W T 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	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/16/06		APPROVED: 6/03/71											
				COMMENT: CHANGE PREREQ													
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											
				BIOEN 423													
E E 424	ADV SYNTHETIC BIO Advanced Systems and Synthetic Biology	AUT/2011 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	BIOEN 424 CSE 487	.	.	.
				LAST UPDT: 3/21/16		APPROVED:11/17/09											
				BIOEN 424													
				COMMENT:EMAIL PREQ CHG, CHG DESC													
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											
				CSE 488													
E E 433	ANALOG CKT DESIGN Analog Circuit Design	AUT/1992 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/17/15													
				COMMENT:CHG TITLES, CRS, DESC													
				FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081													
E E 436	MEDICAL INSTRUMENTN Medical Instrumentation	WIN/2013 - AUT/9999	4.0
				LAST UPDT: 5/31/12		APPROVED: 9/26/74											
				COMMENT:EMAIL 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						
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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				-ALL U	GRD	E	U N E	P & N	C M S N	A S W T P R G					
E E	452 PWR ELECTRONIC DES Power Electronics Design	AUT/2007 - AUT/9999	5.0	.	.	.	Y
	COMMENT:EMAIL PREQ CHANGE			LAST UPDT: 7/23/15 APPROVED: 4/25/85 FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081											
E E	453 ELECTRIC DRIVES Electric Drives	SPR/2020 - AUT/9999	5.0	.	.	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT:10/11/19 APPROVED:11/22/82 FEE TYPE:1 \$50.00 BUDGET:069330 REV OBJ CD:943081											
E E	454 POWER SYS ANLYS Power System Analysis	AUT/2002 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG TITLES			LAST UPDT:10/16/06 APPROVED: 6/03/71											
E E	455 POWER SYS DYN & PROT Power System Dynamics and Protection	WIN/2003 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG TITLES			LAST UPDT:10/16/06 APPROVED:11/17/77											
E E	456 CAD IN POWER SYST Computer-Aided Design in Power Systems	SPR/1990 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG TITLES			LAST UPDT:10/16/06 APPROVED: 2/24/77											
E E	457 ELEC ENERGY DISTR Electric Energy Distribution Systems	WIN/1981 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/16/06 APPROVED:12/18/80											
E E	458 POWER ELEC CONTROLS Power Electronics Controls	WIN/2020 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/06/19 APPROVED: 6/04/19											
E E	460 NEURAL ENGINEERING Neural Engineering	AUT/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	BIOEN 460	BIOEN 460	.
				LAST UPDT:12/20/18 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											

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				-ALL U	GRD		E	U N E	P	N	C	M	S	N			
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																	
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																	

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				-ALL U	GRD		U N E	P & N	C M S N	A S W T P R G							
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													
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													

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				-ALL	U		GRD	E	U	N	E	P	& N	C				M
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																		
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																		

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				-ALL U	GRD		U N E	P	& N C M S N	A S W T P R G							
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	.	.
COMMENT:CHG TTL,DSC,PREQ, ADD JT STAT																	
LAST UPDT: 3/04/16 APPROVED: 7/16/70																	
E E 510	MATH FOUND SYST THR Mathematical Foundations of Systems Theory	AUT/2014 - AUT/9999	4.0	E E 510	A A 510	.	.
COMMENT:14-16 PREQ CHG																	
LAST UPDT: 7/31/14 APPROVED:10/24/91																	
CHEM E 510 M E 510																	
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																	
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																	

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				-ALL U	GRD	E	D	U N E	M R E	L I P A	E N S W	E C M T	Q S P R					
E E 542	ADV EMBD SYS DESIGN Advanced Embedded Systems Design	AUT/2006 - AUT/9999	5.0
																		LAST UPDT: 7/31/14 APPROVED: 5/17/06
E E 543	ROBOT MANIPULATION Models of Robot Manipulation	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
																		LAST UPDT: 7/31/14 APPROVED: 5/29/92
																		COMMENT:14-16 PREQ CHG
E E 546	CONTROL SYS THEORY Advanced Topics in Control System Theory	SPR/2010 - AUT/9999	1.0-05.0	16.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
																		LAST UPDT: 1/20/10
																		COMMENT:CHG MAX. CREDITS
E E 547	LINEAR SYSTEMS Linear Systems Theory	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	E E	547 M E	547 .
																		LAST UPDT:12/20/18
																		A A 547
E E 548	LIN MULTVAR CONTROL Linear Multivariable Control	AUT/2005 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	E E	548 A A	548 .	.
																		LAST UPDT:10/17/06
																		M E 548
																		COMMENT: CHG PREREQ
E E 549	ST EST & KALMAN FLTR Estimation and System Identification	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	E E	549 A A	549 .	.
																		LAST UPDT: 4/24/12 APPROVED: 9/19/81
																		M E 549
																		COMMENT:EMAIL PREQ CHG
E E 550	NONLIN OPT CONTROL Nonlinear Optimal Control	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	E E	550 A A	550 .	.
																		LAST UPDT: 7/31/14 APPROVED: 9/19/81
																		M E 550
																		COMMENT:14-16 PREQ CHG
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

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				-ALL U	GRD		U N E	M R E	P & A		N C M S N	W T P R G			
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											
E E	562 AI FOR ENGINEERS Artificial Intelligence for Engineers	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 7/31/14		APPROVED: 4/01/85									
				COMMENT:14-16 PREQ CHG											
E E	563 SUBMODULAR OPT Submodular Functions, Optimization, and Applications	SPR/2018 - AUT/9999	4.0
				LAST UPDT: 2/22/18		APPROVED: 2/20/18									

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				-ALL U	GRD		U N E	P & N	C M S N	A S W T	P R G					
E E 564	NEUROCOMP/ENGR LAB Neural Computation and Engineering Laboratory	AUT/2019 - AUT/9999	3.0	BIOEN 566	BIOEN 566	.	
				LAST UPDT: 12/19/18		APPROVED: 2/21/17										
E E 565	COMPUT-COMM NETS I Computer-Communication Networks I	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.			.
	COMMENT:14-16 PREQ CHG			LAST UPDT: 7/31/14		APPROVED: 6/12/86										
E E 566	COMPUT-COMM NETS II Computer-Communication Networks II	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.			.
	COMMENT:14-16 PREQ CHG			LAST UPDT: 7/31/14		APPROVED: 6/12/86										
E E 567	MOBILE NETWORKS Mobile Networks	AUT/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 6/08/17		APPROVED: 8/20/04										
E E 568	DIGITAL IMAGE PROC Digital Image Processing	WIN/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 10/21/15		APPROVED: 9/01/87										
E E 570	MANIFOLDS AND GEOM Manifolds and Geometry for Systems and Control	AUT/2007 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	A A 570	A A 570	.
				LAST UPDT: 4/05/07		APPROVED: 2/21/07						M E 570				
E E 571	HIGH FREQ CIRCUITS High Frequency Circuits and Antennas: Computation of Fields and Waves	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.			.
	COMMENT:14-16 PREQ CHG			LAST UPDT: 7/31/14		APPROVED: 5/01/90										
E E 572	EM I: MWAVE ENGR Electromagnetics I: Microwave Engineering	WIN/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 8/19/15												
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										

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				-ALL U	GRD		U N E	P & N	C M S N	A S W T P R G							
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, DESCRIP, PREREQ													
				M E 582													
E E	583 NONLINEAR CONTR SYS Nonlinear Control Systems	AUT/2005 - AUT/9999	3.0	E E 583	A A 583	583	.
				LAST UPDT:12/06/19													
				COMMENT:CHANGED JOINT STATUS,DESCR,PRE													
				M E 583													

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DEPARTMENT: ELECTRICAL & COMP ENGR

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				-ALL U	GRD		E	U N E	P	& N C	M S N	A S W T P R G				
EE P	500 GRADUATE SEMINAR Graduate Seminar	AUT/2018 - AUT/9999	1.0-03.0	9.0	.	CR/NC
				LAST UPDT: 4/19/18		APPROVED: 4/17/18										
EE P	502 ANALYTICAL METHODS Analytical Methods for Electrical Engineering	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/19/18		APPROVED: 4/17/18										
EE P	504 INTRO TO MEMS Introduction to Microelectro Mechanical Systems	SUM/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/20/18		APPROVED:12/18/18										
EE P	518 DIGITAL SIGNAL PROC Digital Signal Processing	SPR/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/20/18		APPROVED:12/18/18										
EE P	520 SFTWR ENGR EMBD APPL Software Engineering for Embedded Applications	WIN/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/21/19		APPROVED: 2/19/19										
EE P	522 EMBED & RL TIME SYST Embedded and Real Time Systems	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/11/18		APPROVED: 6/05/18										
EE P	523 APPS SENSING CNTRL Mobile Applications for Sensing and Control	SPR/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/06/19		APPROVED: 6/04/19										
EE P	524 APPLIED GPU CMPTG Applied High-Performance GPU Computing	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/11/18		APPROVED: 6/05/18										
EE P	527 MICROFABRICATION Microfabrication	SPR/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/20/18		APPROVED:12/18/18										
EE P	532 DIGT & ANLG ELC CRTS Design of Digital and Analog Electronic Circuits	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/11/18		APPROVED: 6/05/18										
EE P	545 AI MOBILE ROBOTS The Self Driving Car: Introduction to AI for Mobile Robots	AUT/2018 - AUT/9999	4.0
				LAST UPDT: 4/19/18		APPROVED: 4/17/18										

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				-ALL U	GRD		E	U N E	P & A	I & S	E & W	C & T	M & R	S & G				N
EE P 547	LINEAR SYSTEMS Linear Systems Theory	AUT/2018 - AUT/9999	4.0
				LAST UPDT: 6/11/18		APPROVED: 6/05/18												
EE P 553	POWR SYS ECONOMICS Power Systems Economics	WIN/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 11/15/18		APPROVED: 11/13/18												
EE P 555	DATA SCIENCE PWR SYS Data Science for Power Systems	SPR/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/22/19		APPROVED: 3/19/19												
EE P 560	ADV MACHINES DRIVES Advanced Electric Machines and Drives	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/19/18		APPROVED: 6/03/14												
EE P 569	WIRELESS NTWRK 4G/5G Wireless Networks for 4G/5G	WIN/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 12/20/18		APPROVED: 12/18/18												
EE P 590	ADV TPCS DIGT CMPUT Advanced Topics in Digital Computers	SPR/2019 - AUT/9999	1.0-05.0	16.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 12/20/18		APPROVED: 12/18/18												
EE P 592	TPCS EM/OPT/ACOUS Advanced Topics in Electromagnetics, Optics, and Acoustics	WIN/2019 - AUT/9999	1.0-05.0	16.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 11/15/18		APPROVED: 11/13/18												
EE P 595	ADV TPCS CMU THRY Advanced Topics in Communication Theory	SPR/2019 - AUT/9999	1.0-05.0	16.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 12/20/18		APPROVED: 12/18/18												
EE P 596	TPCS SPCH/IMG PROC Advanced Topics in Signal and Image Processing	SPR/2019 - AUT/9999	1.0-05.0	16.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 12/20/18		APPROVED: 12/18/18												
EE P 598	ADV TOPICS EE Advanced Topics in Electrical Engineering	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/19/18		APPROVED: 4/17/18												
EE P 599	RESEARCH IN EE Research in Electrical Engineering	AUT/2018 - AUT/9999	1.0-04.0	8.0
				LAST UPDT: 4/27/18		APPROVED: 4/17/18												

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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 N P R 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	E	U	N	E	P	N	C	M	S			
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 Engudy 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				FEE TYPE:2 \$395.00 BUDGET:069319 REV OBJ CD:943081						
	COMMENT:CONVERSION OF TEMP																	
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
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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 & A	N S W	C M T	E C P				Q S R	S N G
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	M				S	N
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	.	.	.	.	.	.	.
	COMMENT:EMAIL PREQ CHG								LAST UPDT: 3/16/15 APPROVED: 1/31/05										
									FEE TYPE:1 \$50.00 BUDGET:069657 REV OBJ CD:943081										
HCDE 421	CURRENT PRACTICE TC Current Practices in Technical Communication	AUT/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG TITLES, DESC								LAST UPDT: 2/16/10 APPROVED: 9/21/04										
HCDE 422	STYLE IN TECH COMM Style in Technical Communication	AUT/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG TITLES, DESC								LAST UPDT: 2/16/10 APPROVED:12/15/05										
HCDE 423	TECH EDIT & DOC DEVL Introduction to Technical Editing	AUT/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG TITLES, DESC								LAST UPDT: 2/16/10 APPROVED: 9/21/04										
HCDE 424	AUTHOR & PROD TOOLS The Computer in Technical Communication	AUT/2010 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG TITLES, DESC								LAST UPDT: 2/16/10 APPROVED: 9/21/04										
HCDE 426	SOFTWARE USER ASST Software User Assistance	AUT/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG TITLES, DESC								LAST UPDT: 2/16/10 APPROVED: 9/21/04										
HCDE 427	VISUAL DESIGN IN TC Production Editing	AUT/2010 - AUT/9999	4.0			
	COMMENT:CHG TITLES, DESC								LAST UPDT: 2/16/10 APPROVED: 9/21/04										

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				-ALL U	GRD		E	U N E	P	& N C M S N	A S W T P R G						
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	.	.	.	.	.	.	.	.	.	.	.
COMMENT:WAS T C 496 1-09, CHG TITLES LAST UPDT: 6/15/09 APPROVED:11/26/01																	
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	.	.	.	.	.	.	.	.	.	.	.
COMMENT:WAS T C 497 1-09, CHG TTL,DESC LAST UPDT: 6/15/09 APPROVED: 1/03/01																	
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	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:WAS T C 499 1-09, CHG DESC LAST UPDT: 6/15/09 APPROVED:12/01/89																	
HCDE 501	THEORETICAL FNDTNS Theoretical Foundations of Human Centered Design and Engineering	AUT/2009 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:WAS T C 501 1-09, CHG TTL,DESC LAST UPDT: 6/15/09 APPROVED:12/01/89																	
HCDE 502	EMPIRICAL TRADITIONS Empirical Traditions in Human Centered Design and Engineering	AUT/2009 - AUT/9999	4.0
COMMENT:WAS T C 502 1-09, CHG TTL,DESC LAST UPDT: 6/15/09 APPROVED: 5/24/93																	

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				-ALL U	GRD	E	U N E	P & N C M S N	A S W T P R G								
HCDE 516	EXPRMNTL RSCH MTHDS Experimental Research Methods	AUT/2009 - AUT/9999	4.0
				LAST UPDT: 6/15/09													
				COMMENT:WAS T C 516- 1-09, CHG TTL,DES													
HCDE 517	USABILITY STUDIES Usability Studies	SUM/2019 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/10/19 APPROVED:12/01/89													
				FEE TYPE:1 \$50.00 BUDGET:069657 REV OBJ CD:943081													
HCDE 518	USER-CENTERED DESIGN User-Centered Design	WIN/2020 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/16/19 APPROVED:11/25/03													
HCDE 519	QUAL RES METHODS Qualitative Research Methods	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/19/14 APPROVED: 3/16/10													
				COMMENT:CHG DESC, CREDITS													
HCDE 520	DES & MGT COMP SYS Design and Management of Complex Systems	AUT/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/16/16 APPROVED: 5/31/90													
HCDE 521	SEMINAR ISSUES HCDE Seminar: Current Issues in Human Centered Design and Engineering	AUT/2009 - AUT/9999	1.0-02.0	3.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/15/09 APPROVED:12/01/89													
				COMMENT:WAS T C 521 1-09, CHG TTL,DESC													
HCDE 523	DUB SEMINAR Design Use Build (DUB) Seminar	AUT/2014 - AUT/9999	1.0	3.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/04/14 APPROVED: 7/13/05													
				COMMENT:CHG TTLS, PREQ, DESC													
HCDE 524	PROG CONCEPTS Programming Concepts in HCDE	AUT/2019 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/24/19 APPROVED:10/16/18													
HCDE 526	VIDEO PROTOTYPING Video Prototyping	WIN/2019 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/25/18 APPROVED: 9/18/18													
HCDE 530	COMP CONCEPTS HCDE Computational Concepts in HCDE	AUT/2014 - AUT/9999	4.0
				LAST UPDT: 3/19/14 APPROVED: 3/18/14													

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COLLEGE : J - Engineering
 DEPARTMENT: HUMAN CTR DESIGN & 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		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	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:WAS T C 535			LAST UPDT: 1/27/09		APPROVED: 6/25/03											
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		U	N	E	P	& N	C	M	S			
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	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				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	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				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	.	.	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			
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											

COLLEGE : J - Engineering
 DEPARTMENT: INDUSTRIAL & SYSTEMS ENGR

CURRIC NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D D S H F L I E C Q T											RESPONS COURSE	JOINT COURSES	O M I T
				-ALL U MAX	GRD P	E SYS	D HYPH	M R E	V P A	L & N S	E C M S N	Q T 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				LAST UPDT:11/05/12 APPROVED: 5/31/90													
IND E 495	I E DESIGN Industrial Engineering Design	WIN/2005 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.			.
COMMENT:CHG CREDITS, CONTACT HRS				LAST UPDT:10/18/06 APPROVED:12/18/86													
IND E 496	TECH-BASED ENTREPRE Technology-Based Entrepreneurship	SPR/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	IND E 496 M E	496	.
COMMENT:EMAIL PREQ CHG				LAST UPDT: 2/14/13 APPROVED: 1/24/96													
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				LAST UPDT:11/15/10 APPROVED:12/18/86													
IND E 499	SPECIAL PROJECTS IE Special Projects	AUT/2010 - AUT/9999	2.0-05.0	12.0	Y	.	.	.	.	.	.	.	.	.			.
COMMENT:CHG MAX CREDITS				LAST UPDT: 5/17/10 APPROVED:12/18/86													
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				LAST UPDT: 3/04/16 APPROVED: 7/16/70													
IND E 512	OPTIMIZATION MODELS Introduction to Optimization Models	AUT/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
COMMENT:END INITIAL DL				LAST UPDT:12/19/12 APPROVED:12/18/12													
IND E 513	LINEAR OPT ENG MODL Linear Optimization Models in Engineering	AUT/1999 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
COMMENT:CONV TEMP TO PERM				LAST UPDT: 3/04/16 APPROVED: 6/28/93													
IND E 515	FUNDAMNTL OPTIMIZTN Optimization: Fundamentals and Applications	WIN/2019 - AUT/9999	5.0	AMATH 515 MATH	515	.
				LAST UPDT:10/17/18 APPROVED: 3/28/94												AMATH 515	

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						-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

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				-ALL	U		GRD	E	U	N	E	P	& N	C			
M E	354 MECH OF MAT LAB Mechanics of Materials Laboratory	AUT/1999 - AUT/9999	5.0	Y
	COMMENT:CHANGE CREDITS, DESC, PREREQS			FEE TYPE:1	\$50.00	BUDGET:069397	REV	OBJ	CD:943081	APPROVED: 1/24/96	LAST UPDT: 8/14/12						
M E	355 INTRO MFG PROCESS Introduction to Manufacturing Processes	AUT/1999 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				FEE TYPE:1	\$50.00	BUDGET:069397	REV	OBJ	CD:943081	APPROVED: 2/03/99	LAST UPDT: 8/14/12						
M E	356 MACHN DESGN ANLYS Machine Design Analysis	AUT/1996 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
	COMMENT:WAS M E 353; CHG PREQ			FEE TYPE:1	\$5.00	BUDGET:069397	REV	OBJ	CD:943081	APPROVED: 1/24/96	LAST UPDT: 8/14/12						
M E	373 INTRO TO SYST DYN Introduction to System Dynamics	AUT/1996 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHANGE DESCRIPTION									APPROVED: 5/06/71	LAST UPDT:10/20/06						
M E	374 SYS DYN ANLYS & DES Systems Dynamic Analysis and Design	AUT/2008 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG PREQ, CORRECTED 6/7/2007									APPROVED:11/20/75	LAST UPDT: 6/07/07						
M E	395 INTRO MECH DESIGN Introduction to Mechanical Design	SUM/2010 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:EMAIL PREREQ CHANGE									APPROVED:12/01/85	LAST UPDT: 3/12/10						
M E	401 METL CAST THY & DES METAL CASTING THEORY AND DESIGN	SPR/1970 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
											LAST UPDT: 7/22/09						
M E	402 ADDITIVE MANUFACTUR Additive Manufacturing: Materials, Processing and Applications	SPR/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	MSE	489	MSE	489
										APPROVED:12/18/18	LAST UPDT: 3/24/20						
M E	403 MATERL-REMOVL PROCS MATERIAL-REMOVAL PROCESSES	SPR/2002 - AUT/9999	3.0
	COMMENT:GENCAT REVIEW PREREQ CHANGE										LAST UPDT:12/17/01						

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				-ALL	U		GRD	E	U	N	E	P	N	C			
M E 404	THEORY OF WELDING THEORY OF WELDING	WIN/1970 - AUT/9999	3.0
				LAST UPDT: 7/22/09													
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													

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				-ALL U	GRD E	D	E	U N E	M R E	P & A	N C M S N	E C Q T	W R					
M E 424	COMBUSTION SYSTEMS COMBUSTION SYSTEMS AND POLLUTANT FORMATION	AUT/1997 - AUT/9999	4.0	Y
COMMENT:CHANGE DESCRIPTION					LAST UPDT: 8/14/12 APPROVED:11/20/80 FEE TYPE:1 \$30.00 BUDGET:069397 REV OBJ CD:943081													
M E 425	HVAC HVAC Engineering	SPR/2000 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
COMMENT:CHANGE TITLES, DESCRIP					LAST UPDT: 3/22/19 FEE TYPE:1 \$25.00 BUDGET:069397 REV OBJ CD:943081													
M E 426	RENEWABLE ENERGY II Renewable Energy II	SPR/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:CHANGE DESCRP, PREREQUISITES					LAST UPDT: 7/23/15 APPROVED:11/20/80													
M E 428	NOISE CONTROL NOISE CONTROL	WIN/1974 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:CHANGE DESCRP, PREREQUISITES					LAST UPDT:10/20/06 APPROVED: 4/12/73													
M E 430	ENERGY CONVERSION Advanced Energy Conversion Systems	SPR/1998 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:CHANGE DESCRP, PREREQUISITES					LAST UPDT:11/26/19 APPROVED: 6/28/73													
M E 431	ADV FL MECH Advanced Fluid Mechanics	WIN/1987 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:CHANGE PREREQ, DESCRIP					LAST UPDT:10/20/06 APPROVED: 3/20/86													
M E 432	GAS DYNAMICS Gas Dynamics	AUT/1975 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:CHG TITLES					LAST UPDT: 8/08/18													
M E 433	TURBOMACHINERY Turbomachinery	SPR/1998 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:CHANGE PREREQ, DESCRIP					LAST UPDT:10/20/06 APPROVED:10/12/72													
M E 434	ADV MECH ENGR LAB ADVANCED MECHANICAL ENGINEERING LABORATORY	SPR/1980 - AUT/9999	3.0
COMMENT:CHG DESC					LAST UPDT:10/20/06													

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				-ALL U	GRD		U	GRD	E	U	N	E	P	& N				C
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														
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	.	.	.	.	.	.	.	.	.		.
				LAST UPDT: 8/14/12 APPROVED: 4/27/72														
				FEE TYPE:1 \$75.00 BUDGET:069397 REV OBJ CD:943081														

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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 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														
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														
				COMMENT:ADD JT WITH A A 503														
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 506	ADDITIVE MANUFACTUR Additive Manufacturing: Materials, Processing and Applications	SPR/2020 - AUT/9999	3.0	MSE	589 MSE	589	.
				LAST UPDT: 3/24/20 APPROVED:12/18/18														
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														
				COMMENT:14-16 PREQ CHG														
				E E 510 CHEM E 510														

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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 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											
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 DESC P 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													

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CURRIC	NUM	COURSE TITLE	EFFECTIVE	QUARTERS	CREDITS	OVER D		D	S H F			V L E E W					RESPONS	JOINT	O			
						-ALL	U		GRD	E	U	N	E	P	&	N				C	M	S	N	COURSE	COURSES	M
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	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT:10/23/06			COMMENT:CHANGE DESCRIPTION													
M E	556	EXP STRESS ANLYS I Experimental Stress Analysis I	SUM/1990 -	AUT/9999	3.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
						LAST UPDT: 8/14/12			COMMENT:CHG TITLES, DESC													
						FEE TYPE:1			\$25.00			BUDGET:069397					REV OBJ CD:943081					
M E	557	EXP STRESS ANLYS II Experimental Stress Analysis II	SUM/1990 -	AUT/9999	3.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
						LAST UPDT: 8/14/12			COMMENT:CHG TITLES, DESC													
						FEE TYPE:1			\$10.00			BUDGET:069358					REV OBJ CD:943081					
M E	558	EXP STRESS ANALYSIS EXPERIMENTAL STRESS ANALYSIS	WIN/1961 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 1/27/93																
M E	559	INTRO FRACT MECH Introduction to Fracture Mechanics	WIN/1997 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT:10/23/06			COMMENT:CHG TITLES, DESC													
M E	560	ADV THY FRACTURE ADVANCED THEORY OF FRACTURE	WIN/1997 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT:10/23/06			APPROVED: 4/12/73													
						COMMENT:CHG TITLES, DESC																
M E	561	THIN FILMS Mechanics of Thin Films	AUT/2012 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 3/21/12			APPROVED: 3/20/12													
M E	562	INTRO ELECTRONC COMP Introduction to Electronic Composites	SPR/1999 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT:10/23/06			APPROVED: 2/23/89								M E	562 MSE	562	.		
						COMMENT:CHANGE TITLE & DESCRIPTION																

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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
M E 563	ADVANCED COMPOSITES Advanced Composites: Design and Manufacturing	SPR/1999 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	MSE 563	MSE 563	.
				LAST UPDT: 2/23/99		APPROVED: 2/22/99											
M E 564	MECHNCL ENGR ANLYS Mechanical Engineering Analysis	AUT/1975 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:10/23/06		COMMENT:CHG TITLES											
M E 565	MECHNCL ENGR ANLYS Mechanical Engineering Analysis	AUT/1975 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:10/23/06		COMMENT:CHG TITLES											
M E 566	RANDOM PROCESSES INTRODUCTION TO RANDOM PROCESSES	SPR/1994 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:10/23/06		APPROVED: 9/18/85		COMMENT:CHANGE DESCRIPTION									
M E 567	NANO-BIOSENSORS Micro- and Nanostructured Biosensors	SPR/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	M E 567	MOLENG567	.
				LAST UPDT:12/20/15		APPROVED:12/15/15											
M E 568	ACT/SENSING MATR Active and Sensing Materials	AUT/2008 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	M E 568	MSE 568	.
				LAST UPDT: 4/28/08		APPROVED: 4/15/08											
M E 570	MANIFOLDS AND GEOM Manifolds and Geometry for Systems and Control	AUT/2007 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	A A 570	A A 570	.
				LAST UPDT: 4/05/07		APPROVED: 2/21/07		E E 570									
M E 572	CONCEPTUAL DESIGN Methodologies for Engineering Design: Conceptual Design	WIN/1997 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 6/14/96		APPROVED: 4/29/96											
M E 573	PROB MECH DESIGN METH FOR ENGR DESIGN:PROBABILISTIC MECHANICAL DESG	AUT/1996 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 5/24/96		APPROVED: 4/29/96											
M E 574	APPL PAR COMPUTING Introduction to Applied Parallel Computing for Engineers	WIN/2018 - AUT/9999	3.0	
				LAST UPDT:12/21/17		APPROVED:12/19/17											

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						-ALL	U		GRD	E	U	N	E	P	&	N				C
M E	578	CONVEX OPTIMIZATION Convex Optimization	AUT/2017 -	AUT/9999	4.0	E E	578	CSE	578	.
						LAST UPDT: 5/31/18		APPROVED: 3/29/05								A A		578		
																E E		578		
M E	579	FLUID POWER SYSTEMS FLUID POWER SYSTEMS	SPR/1980 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.					.
						LAST UPDT:10/23/06														
						COMMENT:CHG TITLES														
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								A A		580		
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								E E		581		
						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								E E		582		
						COMMENT:CHG TITLES, DESCRIPT, 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								E E		583				
						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								E E		585		
						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												

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				-ALL U	GRD		U N E	P	& N C M S N	A	S	W	T	P			
M E 588	DYNMCS AND VIBR Dynamics and Vibrations	AUT/1975 - AUT/9999	3.0
	COMMENT:WAS M E 568, CHG TITLES																
M E 589	VIBRATIONS Vibrations	AUT/1975 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG TITLES, DESC																
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	.	.	.	Y

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	M R E	P & N C M S N		A S W T P R G							
M E 600	INDEPNONT STDY/RSCH Independent Study or Research	SUM/1971 - AUT/9999	0.0	999.0	.	.	11
LAST UPDT: 4/19/10																		
M E 700	MASTERS THESIS Master's Thesis	WIN/1970 - AUT/9999	0.0	999.0	.	.	11
LAST UPDT: 4/19/10 APPROVED: 1/01/70																		
M E 800	DOCTORAL DISSERTATN Doctoral Dissertation	SUM/1976 - AUT/9999	0.0	999.0	.	.	11
LAST UPDT: 4/19/10 APPROVED: 1/01/70																		

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CURRIC 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
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	SPR/2020 - AUT/9999	3.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/09/20		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	U	N	E	P	&	N				C	M
MSE 476	INTRO OPTOELECT MAT Introduction to Optoelectronic Materials	WIN/2017 - AUT/9999		3.0
					LAST UPDT:10/28/16 APPROVED:10/18/16														
MSE 477	DATA SCI & MAT INFO Data Science and Materials Informatics	SUM/2020 - AUT/9999		3.0	MSE 477	CHEM 441	.
					LAST UPDT: 3/23/20 APPROVED: 3/17/20														
MSE 478	MAT& DEVICE MODELING Materials and Device Modeling	SUM/2020 - AUT/9999		3.0	MSE 478	CHEM 442	.
					LAST UPDT: 3/23/20 APPROVED: 3/17/20														
MSE 479	BIG DATA FOR MAT SCI Big Data for Materials Science	SUM/2020 - AUT/9999		3.0	MSE 479	CHEM 443	.
					LAST UPDT: 3/23/20 APPROVED: 3/17/20														
MSE 481	NANOSTRUCTURES Science and Technology of Nanostructures	WIN/2005 - AUT/9999		3.0
					LAST UPDT:12/23/03 APPROVED:12/22/03														
MSE 482	BIOMATS, TISSUE ENG Biomaterials/Nanomaterials in Tissue Engineering	WIN/2013 - AUT/9999		3.0
					LAST UPDT:12/19/12 APPROVED:12/18/12														
MSE 483	NANOMEDICINE Nanomedicine	SPR/2013 - AUT/9999		3.0
					LAST UPDT:12/19/12 APPROVED:12/18/12														
MSE 484	ELECT &OPTO POLYMERS Electronic and Optoelectronic Polymers	AUT/2015 - AUT/9999		3.0	Y	.	.	CHEM 484	CHEM 484	.
					LAST UPDT:12/17/15 APPROVED: 2/24/06														
MSE 485	ELECTRNC PACKAGING Introduction to Electronic Packaging and Materials	WIN/1997 - AUT/9999		3.0	Y	.	.	M E 485	M E 485	.
					LAST UPDT: 3/22/16 APPROVED: 4/29/96														
					FEE TYPE:1 \$50.00 BUDGET:069397 REV OBJ CD:943081														
MSE 486	IC TECHNOLOGY Fundamentals of Integrated Circuit Technology	SPR/2016 - AUT/9999		3.0	MSE 486	E E 486	.
					LAST UPDT: 3/16/16 APPROVED: 1/03/01														
MSE 487	ELECT PKG LAB Laboratory in Electronic Packaging and Materials	WIN/2000 - AUT/9999		1.0	Y	.	.	M E 487	M E 487	.
					LAST UPDT: 7/23/15 APPROVED: 2/03/99														
					FEE TYPE:1 \$75.00 BUDGET:069397 REV OBJ CD:943081														

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				-ALL U	GRD		U	GRD	E	U	N	E	P	& N			
MSE 488	MATR IN MANUFACTUR Materials in Manufacturing	WIN/2019 - AUT/9999	3.0
LAST UPDT: 1/24/19 APPROVED:12/18/18																	
MSE 489	ADDITIVE MANUFACTUR Additive Manufacturing: Materials, Processing and Applications	SPR/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	MSE 489 M E	402	.
LAST UPDT: 3/24/20 APPROVED:12/18/18																	
MSE 490	COMPOSITE MATR MANU Composite Materials in Manufacturing	SPR/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 3/24/20 APPROVED:12/18/18																	
MSE 491	DESIGN MTLs ENGRG I Design in Materials Engineering I	SPR/2007 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT:10/26/09																	
COMMENT:CHG TITLES, CREDITS, PREQ																	
MSE 492	DESIGN MTLs ENGRG II Design in Materials Engineering II	SPR/2007 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 1/24/07 APPROVED:12/11/02																	
COMMENT:CHG CREDITS, DESC																	
MSE 497	UNDERGRAD RESEARCH Undergraduate Research	SPR/2005 - AUT/9999	1.0-05.0	12.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.
LAST UPDT:12/21/04 APPROVED:12/24/04																	
MSE 498	SPECIAL TOPICS Special Topics	WIN/2013 - AUT/9999	1.0-05.0	15.0	Y	.	.	.	Y	.	.	.	.	.	.	.
LAST UPDT:12/18/12 APPROVED:11/17/83																	
COMMENT:CHG MAX CREDITS FEE TYPE:1 \$50.00 BUDGET:069332 REV OBJ CD:943081																	
MSE 499	SENIOR PROJECT Senior Project	AUT/2017 - AUT/9999	0.0	5.0	Y	.	11	.	.	.	.	.	.	.	.	.
LAST UPDT: 7/06/17 APPROVED:11/19/87																	
MSE 501	ADV PROC. INORG MAT Advanced Processing of Inorganic Materials	AUT/1999 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT:10/30/06 APPROVED:10/27/89																	
COMMENT:CHANGE TITLE & DESCRIPTION																	
MSE 502	SOL-GEL PROCESSING Sol-Gel Processing	AUT/1999 - AUT/9999	3.0	
LAST UPDT: 2/08/99 APPROVED: 2/03/99																	

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 DETAILED CURRICULUM REPORT
 Seattle CAMPUS

REPORT: SR21010-R-01 K
 PAGE: 1,346

COLLEGE : J - Engineering
 DEPARTMENT: MAT SCI AND 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						
MSE 529	SEMICOND OPTOELEC Semiconductor Optoelectronics	SPR/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	E E	529 E E	529 .
				LAST UPDT:12/20/15													
MSE 539	RENEWABLE ENERGY I Renewable Energy I	WIN/2020 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	M E	539 M E	539 .
				LAST UPDT:12/18/19 APPROVED: 3/20/12													
MSE 541	DEFECTS IN MATERIALS Defects in Materials	WIN/2001 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:10/30/06 APPROVED:10/27/89													
				COMMENT:CHANGE TITLES AND PREREQS													
MSE 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													
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													
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													
MSE 550	MAGNETIC MATERIALS Magnetism, Magnetic Materials, and Related Technologies	SPR/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 5/15/12 APPROVED: 2/26/03													
				COMMENT:CHG DESC													
MSE 555	BIOMIMETICS Biomimetics: Bioinspired Design and Processing of Materials	SUM/1996 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 4/23/97 APPROVED: 1/24/96													
MSE 560	ELECT/PHOTONIC MTLs Organic Electronic and Photonic Materials/Polymers	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 .	
				LAST UPDT:10/30/06 APPROVED: 2/23/89													
				COMMENT:CHANGE TITLE & DESCRIPTION													

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					-ALL	U	GRD	E	U	N	E	P	&	N				C
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													
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 589	ADDITIVE MANUFACTUR Additive Manufacturing: Materials, Processing and Applications	SPR/2020 - AUT/9999		3.0	MSE 589	M E	506	.
					LAST UPDT: 3/24/20 APPROVED:12/18/18													

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				-ALL U	GRD		U N E	P & N	C M S N	A S W T P R G						
MSE 590	COMPOSITE MATR MANU Composite Materials in Manufacturing	SPR/2020 - AUT/9999	3.0
				LAST UPDT: 3/24/20		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	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 12/18/12		APPROVED: 1/29/87										
				COMMENT:CHG MAX CREDITS												
MSE 600	INDEPENDENT STUDY Independent Study or Research	WIN/1989 - AUT/9999	0.0	999.0	.	.	11	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/19/10		APPROVED: 6/09/88										
				COMMENT:WAS CER E 600												
MSE 700	MASTERS THESIS Master's Thesis	AUT/1988 - AUT/9999	0.0	999.0	.	.	11	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/19/10		APPROVED: 6/09/88										
				COMMENT:WAS CER E 600												
MSE 800	DOCTORAL DISSERTATN Doctoral Dissertation	WIN/1989 - AUT/9999	0.0	999.0	.	.	11	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/19/10		APPROVED: 6/09/88										
				COMMENT:WAS CER E 800												