

DATE: 07-08-2019  
 TIME: 20:10:04

UNIVERSITY OF WASHINGTON STUDENT RECORDS SYSTEM  
 DETAILED CURRICULUM REPORT  
 Seattle CAMPUS

REPORT: SR21010-R-01 K  
 PAGE: 1,445

COLLEGE : O - Interschool or Col  
 DEPARTMENT: BIOENGINEERING

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			
BIOEN 215	BIOE PROBLEM SOLVING Introduction to Bioengineering Problem Solving	AUT/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/16/10		APPROVED: 6/15/10											
BIOEN 217	MATLAB FUNDAMENTALS MATLAB Fundamentals for Bioengineers	SPR/2019 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/21/19		APPROVED: 2/19/19											
BIOEN 290	GUIDED STUDIES SCI Guided Independent Studies on Transformative Science	WIN/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT:11/07/12		APPROVED:10/16/12											
BIOEN 299	INTRO TO BIOENGR Introduction to Bioengineering	SPR/1975 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/15/07		APPROVED: 5/15/69											
				COMMENT:CHG GRADING													
BIOEN 315	BIOCH MOLEC BIOE Biochemical Molecular Engineering	SPR/2011 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/23/11		APPROVED: 6/15/10											
				COMMENT:EMAIL PREQ CHG													
BIOEN 316	SIGNALS AND SENSORS Biomedical Signals and Sensors	SPR/2015 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/16/14		APPROVED: 6/15/10											
				COMMENT:CHG CREDITS, HRS													
BIOEN 317	SIGNALS SENSORS LAB Biomedical Signals and Sensors Laboratory	AUT/2012 - AUT/9999	2.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 7/23/15		APPROVED: 6/15/10											
				COMMENT:CHG FEE													
				FEE TYPE:1 \$30.00 BUDGET:099204 REV OBJ CD:943081													
BIOEN 325	BIOTRANSPORT I Biotransport I	AUT/2015 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/16/14		APPROVED: 6/15/10											
				COMMENT:CHG CREDITS, PREQ, HRS													
BIOEN 326	SOLID&GEL MECHANICS Solid and Gel Mechanics	AUT/2015 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/16/14		APPROVED: 6/15/10											
				COMMENT:CHG CREDITS, HOURS													

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				-ALL U	GRD		U	E	U	N	E	P	& N	C			
BIOEN 327	FLUID&MATERIALS LAB Fluids and Materials Laboratory	AUT/2010 - AUT/9999	2.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/14/12 APPROVED: 6/15/10 FEE TYPE:1 \$45.00 BUDGET:099204 REV OBJ CD:943081													
BIOEN 335	BIOTRANSPORT II Biotransport II	SPR/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/02/13 APPROVED: 6/15/10 COMMENT:EMAIL PREQ CHG													
BIOEN 336	SYSTEMS AND CONTROL Bioengineering Systems and Control	SPR/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/02/13 APPROVED: 6/15/10 COMMENT:EMAIL PREQ CHG													
BIOEN 337	TRANS SYSTEMS LAB Mass Transport and Systems Laboratory	SPR/2019 - AUT/9999	2.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/29/19 APPROVED: 6/15/10 FEE TYPE:1 \$50.00 BUDGET:068908 REV OBJ CD:943081													
BIOEN 345	FAILURE AND PHYSIOL Failure Analysis and Human Physiology	SPR/2015 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/16/14 APPROVED: 6/15/10 COMMENT:CHG PREQ													
BIOEN 400	DESIGN FUNDAMENTALS Fundamentals of Bioengineering Design	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/30/19 APPROVED: 4/18/17													
BIOEN 401	CAPSTONE PROPOSAL Bioengineering Capstone Proposal	SPR/2018 - AUT/9999	1.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/25/17 APPROVED: 3/16/10													
BIOEN 402	RESEARCH AND DESIGN Bioengineering Capstone Research and Design	SPR/2010 - AUT/9999	2.0-06.0	10.0	.	.	.	11	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/21/16 APPROVED: 3/16/10													
BIOEN 403	CAPSTONE RESEARCH Bioengineering Capstone Research	SPR/2010 - AUT/9999	2.0	4.0	.	.	.	11	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/21/16 APPROVED: 3/16/10													
BIOEN 404	TEAM DESIGN I Bioengineering Team Design I	WIN/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/19/18 APPROVED: 3/16/10													

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				-ALL	U		GRD	E	U	N	E	P	&	N			
BIOEN 405	TEAM DESIGN II Bioengineering Team Design II	SPR/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/25/17		APPROVED: 3/16/10											
BIOEN 410	BIOE HONORS SEM Bioengineering Honors Seminar	AUT/2010 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/19/10		APPROVED:10/19/10											
BIOEN 415	BIOCONJ Bioconjugate Engineering	AUT/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/21/17		APPROVED:12/19/17											
BIOEN 420	MEDICAL IMAGING Medical Imaging	SPR/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/16/13		APPROVED: 1/03/01											
				COMMENT:CHG DESC, PREQ													
BIOEN 423	INTRO SYNTH BIO Introduction to Synthetic Biology	AUT/2014 - SUM/2019	3.0	.	.	.	.	.	.	.	.	.	.	E E	423 CSE	486	.
				LAST UPDT: 4/10/19		APPROVED:11/17/09											
				COMMENT:14-16 PREQ CHG													
BIOEN 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 424	ADV SYNTHETIC BIO Advanced Systems and Synthetic Biology	AUT/2011 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	BIOEN 424 E E	424	.	
				LAST UPDT: 8/16/11		APPROVED:11/17/09											
				COMMENT:EMAIL PREQ CHG, CHG DESC													
BIOEN 425	LAB SYNTH BIO Laboratory Methods in Synthetic Biology	AUT/2009 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	E E	425 CSE	488	.
				LAST UPDT: 3/21/16		APPROVED:11/17/09											
				COMMENT:14-16 PREQ CHG													
BIOEN 436	QUANT PHYS Quantitative Physiology	AUT/2017 - AUT/2019	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/21/17		APPROVED:12/19/17											
BIOEN 440	INTRO TO BIOMECH Introduction to Biomechanics	SPR/2001 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	BIOEN 440 M E	445	.	
				LAST UPDT:12/07/00		APPROVED:12/30/98											
				COMMENT:WAS BIOEN 445, CHG TITLES, CRD													

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				-ALL U	GRD		U	E	U	N	E	P	& N	C			
BIOEN 447	MRI & ULTRASOUND Fundamentals of Magnetic Resonance and Ultrasound Imaging	WIN/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/11/17		APPROVED: 6/07/16											
BIOEN 449	THER DIAGN ULTRASND Therapeutic and Diagnostic Ultrasound	SPR/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/11/17		APPROVED: 6/07/16											
BIOEN 451	OCT IMAGING Optical Coherence Tomography	AUT/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/21/17		APPROVED:12/19/17											
BIOEN 454	BIOE GLOB HLTH SOLNS Bioengineering Solutions to Improve the Health of Women, Adolescents and Children	AUT/2018 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	G H	454 G H	454
				LAST UPDT: 5/09/18		APPROVED: 4/17/18											
BIOEN 455	BIOMEMS BioMEMS	SPR/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/09/11		APPROVED: 1/03/00											
	COMMENT:EMAIL PREQ CHG																
BIOEN 457	ADV MOL BIOEN Advanced Molecular Bioengineering	SPR/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/01/14		APPROVED: 1/03/00											
	COMMENT:EMAIL PREQ CHG																
BIOEN 460	NEURAL ENGINEERING Neural Engineering	AUT/2016 - SUM/2019	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/20/18		APPROVED: 6/07/16											
BIOEN 460	NEURAL ENGINEERING Neural Engineering	AUT/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	BIOEN 460 E E	460	.
				LAST UPDT:12/20/18		APPROVED: 6/07/16											
BIOEN 461	NEURAL TECH STUDIO Neural Engineering Tech Studio	WIN/2017 - SUM/2019	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/20/18		APPROVED: 6/07/16											
BIOEN 461	NEURAL TECH STUDIO Neural Engineering Tech Studio	AUT/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	BIOEN 461 E E	461	.
				LAST UPDT:12/20/18		APPROVED: 6/07/16											

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CURRIC NUM	COURSE TITLE	EFFECTIVE	QUARTERS	CREDITS	OVER D		S H F	V L	E E W	RESPONS	JOINT	O
					-ALL U	GRD E						
BIOEN 463	OPTOGENETICS Optogenetics	SPR/2019 - AUT/9999		3.0	.	.	. . .	. . . . .				.
					LAST UPDT: 6/07/19		APPROVED: 6/04/19					
BIOEN 466	NEUROCOMP/ENGR LAB Neural Computation and Engineering Laboratory	SPR/2019 - SUM/2019		3.0	.	.	. . Y	. . Y . . . .		NBIO 405 E E	466	.
					LAST UPDT: 3/21/19		APPROVED: 1/19/16		NBIO 405		405	
					FEE TYPE:1 \$110.00 BUDGET:069241 REV OBJ CD:943081							
BIOEN 466	NEUROCOMP/ENGR LAB Neural Computation and Engineering Laboratory	AUT/2019 - AUT/9999		3.0	.	.	. . Y	. . Y . . . .		NEUSCI405 E E	466	.
					LAST UPDT: 3/21/19		APPROVED: 1/19/16		NEUSCI 405		405	
					FEE TYPE:1 \$110.00 BUDGET:069241 REV OBJ CD:943081							
BIOEN 467	BIOCHEMICAL ENGRING Biochemical Engineering	WIN/1988 - AUT/9999		3.0	.	.	. . .	. . . . .		CHEM E467 CHEM E467		.
					LAST UPDT:10/04/94		APPROVED:12/17/87					
BIOEN 468	RT BIOSIGNAL PROC Real-Time Biosignal Processing	WIN/2018 - AUT/9999		3.0	.	.	. . .	. . . . .				.
					LAST UPDT: 2/22/18		APPROVED: 2/20/18					
BIOEN 470	SYS IMMUNOLOGY Systems Immunology and Immunoengineering	SPR/2019 - AUT/9999		3.0	.	.	. . .	. . . . .				.
					LAST UPDT: 4/24/19		APPROVED: 2/19/19					
BIOEN 472	CANCER BIOSENSORS Biosensors for Cancer	AUT/2019 - AUT/9999		4.0	.	.	. . .	. . . . .				.
					LAST UPDT: 2/27/19		APPROVED: 2/19/19					
BIOEN 474	IMMUNOENGINEERING Immunoengineering	SPR/2015 - AUT/9999		3.0	.	.	. . .	. . . . .				.
					LAST UPDT: 7/23/15		APPROVED: 4/21/15					
BIOEN 475	GHT: MOLEC DIAG Global Health Technology: Molecular Diagnostics	WIN/2018 - AUT/9999		4.0	.	.	. . .	. . . . .				.
					LAST UPDT: 3/22/18		APPROVED: 3/20/18					
BIOEN 481	ENG CELL BIOL Engineering Cell Biology	AUT/2017 - AUT/9999		3.0	.	.	. . .	. . . . .				.
					LAST UPDT:12/21/17		APPROVED:12/19/17					

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COLLEGE : 0 - Interschool or Col  
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				-ALL	U		GRD	E	U	N	E	P	&	N			
BIOEN 483	VASCULAR ENGINEERING Vascular Biology and Engineering	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:		8/07/18		APPROVED:		2/20/18							
BIOEN 485	COMPUTATIONAL BIOEN Computational Bioengineering	SPR/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:		2/20/13		APPROVED:		1/03/00							
				COMMENT:CHG DESC, PREQ													
BIOEN 486	TISSUE ENGINEERING Tissue Engineering	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:		4/16/14		APPROVED:		4/15/14							
BIOEN 487	BIOE & NANOTECH Bioengineering and Nanotechnology	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:		12/21/17		APPROVED:		8/24/10							
BIOEN 488	COMP PROTEIN DESIGN Computational Protein Design	SPR/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:		4/23/18		APPROVED:		3/15/11							
BIOEN 489	ADV TISSUE ENGR Advanced Tissue Engineering	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:		2/21/19		APPROVED:		2/19/19							
BIOEN 490	ENG MATLS BIOMED AP Engineering Materials for Biomedical Applications	SPR/1978 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:		6/15/07		APPROVED:		9/23/71		BIOEN 490 CHEM E490					
				COMMENT:NEW DESCRIPTION													
BIOEN 491	CONTROLLED REL SYS Controlled-Release Systems	WIN/2015 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:		4/16/14		APPROVED:		11/17/77		BIOEN 491 CHEM E491					
				COMMENT:CHG TITLES													
BIOEN 492	SURFACE ANALYSIS Surface Analysis	WIN/1989 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:		10/04/94		APPROVED:		12/17/87		BIOEN 492 CHEM E458					
BIOEN 493	ADV SURFACE ANLYS Advanced Surface Analysis	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:		4/18/12		APPROVED:		4/17/12		BIOEN 493 CHEM E493					

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						-ALL	U		GRD	E	U	N	E	P	&	N			
BIOEN	494	ADV DRUG DELIVERY Advanced Drug Delivery	SPR/2014 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
						LAST UPDT: 4/16/14		APPROVED: 4/15/14											
BIOEN	497	BIOEN OUTREACH Bioengineering Education Outreach	SPR/2003 -	AUT/9999	1.0-02.0	6.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	
						LAST UPDT:12/23/02		APPROVED:12/20/02											
BIOEN	498	SPECIAL TOPICS Special Topics	AUT/2008 -	AUT/9999	1.0-06.0	15.0	.	.	.	Y	.	.	.	.	.	.	.	.	
						LAST UPDT: 8/14/12		APPROVED: 8/19/08		FEE TYPE:1 \$37.00 BUDGET:068908 REV OBJ CD:943081									
BIOEN	499	SPECIAL PROJECTS Special Projects	WIN/2009 -	AUT/9999	1.0-06.0	24.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	.	
						LAST UPDT: 5/19/08		APPROVED: 6/03/71		COMMENT:RESUME MAX CREDITS 5-20-08									
BIOEN	501	MOLEC BIOEN Molecular Bioengineering	SPR/2008 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
						LAST UPDT: 6/20/08		APPROVED: 2/19/08											
BIOEN	502	CELL BIOEN Cellular Bioengineering	SPR/2008 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
						LAST UPDT: 6/20/08		APPROVED: 2/19/08											
BIOEN	503	SYSTEMS BIOEN Systems Bioengineering	SPR/2008 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
						LAST UPDT: 6/20/08		APPROVED: 2/19/08											
BIOEN	504	INTRO TECH COMMERCN Introduction to Technology Commercialization	WIN/2009 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
						LAST UPDT: 2/19/09		APPROVED: 2/17/09											
BIOEN	505	BIOMED ENTRE Biomedical Entrepreneurship	AUT/2012 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
						LAST UPDT: 5/15/12		APPROVED: 2/17/09		COMMENT:CHG TITLES, PREQ									
BIOEN	506	APPLY TECH COMMERCN Applying Technology Commercialization	WIN/2013 -	AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	
						LAST UPDT: 5/29/12		APPROVED: 2/17/09		COMMENT:CHG GRADING, DESC, HRS									

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				-ALL	U		GRD	E	U	N	E	P	N	C			
BIOEN 508	CAREER PATH ACADEM Career Pathways in Academia	SUM/2008 - AUT/9999	1.5	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/01/14		APPROVED: 2/19/08											
BIOEN 509	BIOEN DEPT SEMINAR Bioengineering Departmental Seminar	AUT/2012 - AUT/9999	1.0	16.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/27/12		APPROVED: 11/18/08											
				COMMENT: PERM DL													
BIOEN 510	BIOENG SEMINARS Bioengineering Seminars	AUT/2005 - AUT/9999	1.0	Y	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/01/14		APPROVED: 12/15/83											
				COMMENT: CHANGE CREDITS, CRS DESCRIPT'N													
BIOEN 511	BIOMATERIAL SEMINAR Biomaterials Seminar	SPR/2010 - AUT/9999	1.0	18.0	.	CR/NC	.	.	.	.	.	.	.	.	BIOEN 511 CHEM E511	.	
				LAST UPDT: 12/15/09		APPROVED: 1/24/85											
				COMMENT: CHG MAX CREDITS													
BIOEN 513	TOPICS CARDIAC PHYS Current Topics in Cardiac Physiology	AUT/2008 - AUT/9999	1.0	3.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/17/08		APPROVED: 3/18/08											
BIOEN 515	BIOCONJ Bioconjugate Engineering	AUT/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 12/21/17		APPROVED: 12/19/17											
BIOEN 516	MED IMAGING SEMINAR Medical Imaging Seminar	WIN/2009 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/18/09		APPROVED: 2/17/09											
BIOEN 518	HEALTHCARE TRANSFM Healthcare Transformation: Forces, Directions, Implications	WIN/2018 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/26/17		APPROVED: 4/18/17											
BIOEN 520	MUSCULOSKEL BIOMECH Musculoskeletal Biomechanics	SPR/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	BIOEN 520 M E 527	.	
				LAST UPDT: 3/19/14		APPROVED: 12/06/93											
				COMMENT: CHG TTLS, JT STATUS, DES, PREQ													
BIOEN 522	BIOMECH SOFT TISSUE Biomechanics of Soft Tissue	SPR/2008 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/20/08		APPROVED: 2/19/08											



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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			
BIOEN 523	INTRO SYNTH BIO Introduction to Synthetic Biology	AUT/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	E E	523 CSE 586	.	
				LAST UPDT: 9/28/16		APPROVED:11/17/09								MOLENG 525 E E 523			
BIOEN 524	ADV SYNTHETIC BIO Advanced Systems and Synthetic Biology	AUT/2011 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	BIOEN 524 E E	524	.	
	COMMENT:CHG DESC			LAST UPDT: 8/16/11		APPROVED:11/17/09								CSE 587			
BIOEN 530	BIOEN LIT ANALYSIS Bioengineering Professional Series I: Literature Analysis	AUT/2012 - AUT/9999	2.0	.	CR/NC	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 7/23/15		APPROVED:10/16/12											
BIOEN 531	PROPOSAL WRITING Bioengineering Professional Series II: Proposal Writing	WIN/2013 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT:12/19/12		APPROVED:12/18/12											
BIOEN 532	PROFESSIONAL SKILLS Bioengineering Professional Series III: Professional Skills Development	SPR/2013 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 7/23/15		APPROVED:10/16/12											
BIOEN 536	QUANT PHYS Quantitative Physiology	AUT/2017 - AUT/2019	3.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT:12/21/17		APPROVED:12/19/17											
BIOEN 540	CLINICAL PRACTICUM Bioengineering Clinical Practicum	SUM/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 5/11/17		APPROVED: 4/22/16											
BIOEN 541	DESIGN SKILLS I Design Skills I: Clinical Needs Evaluation	AUT/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 8/23/18		APPROVED: 4/22/16											
BIOEN 542	DESIGN SKILLS II Design Skills II: Clinical Needs Evaluation	AUT/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 5/02/17		APPROVED: 4/22/16											
BIOEN 543	DESIGN SKILLS III Design Skills III: Project Implementation	SPR/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 3/31/17		APPROVED: 4/22/16											

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				-ALL U	GRD		E	U N E	P & A	N & S	C & W	M & T	S & P	R & R			
BIOEN 544	ADV CLINICAL DESIGN Advanced Clinical Design Project	SUM/2017 - AUT/9999	1.0-10.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 6/06/17																	
BIOEN 546	BIOMEDICAL IMAGING Fundamentals of Biomedical Imaging: X-ray and Nuclear	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 4/20/18 APPROVED: 4/17/18																	
BIOEN 547	MRI & ULTRASOUND Fundamentals of Magnetic Resonance and Ultrasound Imaging	WIN/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT:12/13/17 APPROVED: 6/07/16																	
BIOEN 549	THER DIAGN ULTRASND Therapeutic and Diagnostic Ultrasound	SPR/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 2/27/18																	
BIOEN 551	OCT IMAGING Optical Coherence Tomography	AUT/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT:12/21/17 APPROVED:12/19/17																	
BIOEN 552	MICROFAB/MICROFLUID Microfabrication and Microfluidics	SUM/2008 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 6/18/08 APPROVED: 6/17/08																	
BIOEN 553	MICROFAB/FLUID LAB Microfabrication and Microfluidics Laboratory	SUM/2008 - AUT/9999	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 6/18/08 APPROVED: 6/17/08																	
BIOEN 554	BIOE GLOB HLTH SOLNS Bioengineering Solutions to Improve the Health of Women, Adolescents and Children	AUT/2018 - AUT/9999	1.0-02.0	.	CR/NC	.	.	.	.	.	.	.	.	G H	554	G H	554
LAST UPDT: 5/09/18 APPROVED: 4/17/18																	
BIOEN 555	WATER NAT BIOL FUNC Water, Nature, and Biological Function	AUT/2011 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 6/20/11 APPROVED: 1/24/85																	
COMMENT:CHANGE TITLES, DESCRIPTION																	
BIOEN 557	ADV MOL BIOEN Advanced Molecular Bioengineering	AUT/2015 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	BIOEN 557	MOLENG515	.
LAST UPDT: 9/16/15 APPROVED: 9/15/15																	
BIOEN 560	NEURAL ENGINEERING Neural Engineering	AUT/2016 - SUM/2019	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT:12/20/18 APPROVED: 6/07/16																	

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				-ALL U	GRD		U N E	P & A	N C M S N	P R G							
BIOEN 560	NEURAL ENGINEERING Neural Engineering	AUT/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	BIOEN 560 E E	560	.	
				LAST UPDT:12/20/18		APPROVED: 6/07/16											
BIOEN 561	NEURAL TECH STUDIO Neural Engineering Tech Studio	WIN/2017 - SUM/2019	4.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT:12/20/18		APPROVED: 6/07/16											
BIOEN 561	NEURAL TECH STUDIO Neural Engineering Tech Studio	AUT/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	BIOEN 561 E E	561	.	
				LAST UPDT:12/20/18		APPROVED: 6/07/16											
BIOEN 563	OPTOGENETICS Optogenetics	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 6/07/19		APPROVED: 6/04/19											
BIOEN 565	NMR IN BIOMEDICINE Nuclear Magnetic Resonance in Biomedicine	WIN/1995 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	BIOEN 565 RADGY	550	.	
				LAST UPDT: 8/01/14		APPROVED:12/06/93											
BIOEN 566	NEUROCOMP/ENGR LAB Neural Computation and Engineering Laboratory	SPR/2017 - SUM/2019	3.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT:12/19/18		APPROVED: 2/21/17											
BIOEN 566	NEUROCOMP/ENGR LAB Neural Computation and Engineering Laboratory	AUT/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	BIOEN 566 E E	564	.	
				LAST UPDT:12/19/18		APPROVED: 2/21/17											
BIOEN 568	RT BIOSIGNAL PROC Real-Time Biosignal Processing	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 3/22/18		APPROVED: 3/20/18											
BIOEN 570	SYS IMMUNOLOGY Systems Immunology and Immunoengineering	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 2/21/19		APPROVED: 2/19/19											
BIOEN 571	POLYMERIC MATERIALS POLYMERIC MATERIALS	WIN/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT:12/19/18		APPROVED: 5/29/92											
BIOEN 572	CANCER BIOSENSORS Biosensors for Cancer	AUT/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 2/27/19		APPROVED: 2/19/19											



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				-ALL U	GRD		U	N	E	P	& N	C	M	S			
BIOEN 587	BIOE & NANOTECH Bioengineering and Nanotechnology	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/21/17		APPROVED: 8/24/10											
BIOEN 588	COMP PROTEIN DESIGN Computational Protein Design	SPR/2011 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/15/11		APPROVED: 3/15/11											
BIOEN 589	ADV TISSUE ENGR Advanced Tissue Engineering	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/24/19		APPROVED: 2/19/19											
BIOEN 590	ADV BIOMATERIALS Advanced Topics in Biomaterials	SPR/1986 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	BIOEN 590 CHEM E590	.	.	.
				LAST UPDT:10/04/94		APPROVED:11/25/85											
BIOEN 591	CONTROLLED REL SYS Controlled Release Systems	WIN/2015 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/16/14		APPROVED: 4/15/14											
BIOEN 592	SURFACE ANALYSIS Surface Analysis	WIN/1985 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	BIOEN 592 CHEM E558	.	.	.
				LAST UPDT:10/04/94		APPROVED:10/25/84											
BIOEN 593	ADV SURFACE ANLYS Advanced Surface Analysis	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	BIOEN 593 CHEM E593	.	.	.
				LAST UPDT: 4/18/12		APPROVED: 4/17/12											
BIOEN 594	ADV DRUG DELIVERY Advanced Drug Delivery	SPR/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/16/14		APPROVED: 4/15/14											
BIOEN 598	RESEARCH ROTATION Research Rotation	SPR/2008 - AUT/9999	1.0-10.0	30.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/20/08		APPROVED: 2/19/08											
BIOEN 599	SPEC TOPICS BIOENG Special Topics in Bioengineering	SUM/2011 - AUT/9999	1.0-06.0	30.0	Y	.	.	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT: 4/16/14		APPROVED:11/18/76											
COMMENT:CHG MAX CREDITS			FEE TYPE:1 \$37.00 BUDGET:068908 REV OBJ CD:943081														
BIOEN 600	INDEPN DNT STDY/RSCH Independent Study or Research	SPR/2012 - AUT/9999	0.0	999.0	.	.	11	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/16/12		APPROVED:12/18/81											
COMMENT:CHG GRADING																	

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				-ALL U	GRD		E	U N E	L I		P & N	C M	S N				
BIOEN 601	INTERNSHIP Internship	SUM/2013 - AUT/9999	1.0-10.0	10.0	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 6/05/13 APPROVED: 6/04/13																	
BIOEN 700	MASTER'S THESIS Master's Thesis	SPR/2012 - AUT/9999	0.0	999.0	.	.	11	.	.	.	.	.	.	.	.	.	.
COMMENT:CHG GRADING																	
LAST UPDT: 4/16/12 APPROVED:12/18/81																	
BIOEN 800	DOCTORAL DISSERTATN Doctoral Dissertation	SPR/2012 - AUT/9999	0.0	999.0	.	.	11	.	.	.	.	.	.	.	.	.	.
COMMENT:CHG GRADING																	
LAST UPDT: 4/16/12 APPROVED: 4/25/85																	



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					-ALL	U		GRD	E	U		N	E	P	&	N			
MEDENG 539	CLINIC DIAGNOSTICS Clinical Diagnostics	AUT/2011 - AUT/9999		4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

LAST UPDT: 8/01/14 APPROVED: 2/17/09

COMMENT:WAS BIOEN 539



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				-ALL U	GRD		U N E	P & N C M S N	A S W T P R G	P	S	E	H	F				L
PHARBE 500	MOL CEL BIO PHRM I Molecular and Cellular Biology for Pharmaceutical Bioengineering I	WIN/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/25/17		APPROVED: 4/17/12												
PHARBE 502	PHARMACEUTICS I Pharmaceutics I	SPR/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/26/16		APPROVED: 6/21/11												
PHARBE 503	PHARMACEUTICS II Pharmaceutics II	SUM/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/26/16		APPROVED: 8/16/11												
PHARBE 505	PATHOPHYS PHARMA Pathophysiology for Pharmaceutical Bioengineering	SUM/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/26/16		APPROVED: 2/16/16												
PHARBE 506	PHARBE SEMINAR Pharmaceutical Bioengineering Seminar	WIN/2017 - AUT/9999	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/25/17		APPROVED: 2/16/16												
PHARBE 510	APPL PHARMACOKINET Applied Pharmacokinetics	AUT/2017 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/26/16		APPROVED: 6/21/11												
PHARBE 511	PROCESS DEVELOPMENT Process Development	WIN/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/21/17		APPROVED: 4/17/12												
PHARBE 513	CLINICAL DEVELOPMNT Clinical Development	SPR/2018 - AUT/9999	6.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/21/17		APPROVED: 2/19/13												
PHARBE 519	JOURNAL RSRCH SEM Journal Research Seminar	SPR/2016 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/01/14		APPROVED: 8/21/12												
				COMMENT:REMOVE DL														
PHARBE 521	DRUG DISCOVERY Drug Discovery and Design	AUT/2017 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/26/16		APPROVED: 4/17/12												
PHARBE 522	MOLECULAR TARGETS Molecular Targets and Drug Classes	WIN/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/21/17		APPROVED: 4/17/12												