

DATE: 04-15-2019  
 TIME: 20:10:11

UNIVERSITY OF WASHINGTON STUDENT RECORDS SYSTEM  
 DETAILED CURRICULUM REPORT  
 Seattle CAMPUS

REPORT: SR21010-R-01 K  
 PAGE: 1,432

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 N E	P	& N C M S N	A S W T P R G	P	SYS	D	HYPH			
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/2018 - AUT/9999	2.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	
				LAST UPDT: 3/14/18 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/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 4/25/17 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		E	U N E	P	& N C M S N	A S W T P R G						
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		D	S H F			V L E E W					RESPONS	JOINT	O	
						-ALL	U		GRD	E	U	N	E	P	&	N				C
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	
						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	
						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	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														
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

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				-ALL U	GRD		U	N	E	P	& N	C	M	S			
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	.	.	.	.	.	.	.	.	.	.	.	BIOEN 490 CHEM E490	.	.
				LAST UPDT: 6/15/07		APPROVED: 9/23/71											
				COMMENT:NEW DESCRIPTION													
BIOEN 491	CONTROLLED REL SYS Controlled-Release Systems	WIN/2015 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	BIOEN 491 CHEM E491	.	.
				LAST UPDT: 4/16/14		APPROVED:11/17/77											
				COMMENT:CHG TITLES													
BIOEN 492	SURFACE ANALYSIS Surface Analysis	WIN/1989 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	BIOEN 492 CHEM E458	.	.
				LAST UPDT:10/04/94		APPROVED:12/17/87											
BIOEN 493	ADV SURFACE ANLYS Advanced Surface Analysis	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	BIOEN 493 CHEM E493	.	.
				LAST UPDT: 4/18/12		APPROVED: 4/17/12											
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											

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

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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
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												
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	.	
				LAST UPDT: 8/16/11		APPROVED: 11/17/09												
COMMENT:CHG DESC																		
														CSE	587			



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

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

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				-ALL U	GRD		U N E	P	& N C M S N	A S W T P R G								
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												
BIOEN 573	BIOSENSORS Biosensors and Biomedical Sensing	WIN/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.		
				LAST UPDT:11/13/12		APPROVED:12/06/93												
COMMENT:EMAIL PREQ CHG																		
BIOEN 574	IMMUNOENGINEERING Immunoengineering	SPR/2015 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.		
				LAST UPDT: 7/23/15		APPROVED: 4/21/15												
BIOEN 575	GHT: MOLEC DIAG Global Health Technology: Molecular Diagnostics	WIN/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.		
				LAST UPDT: 3/22/18		APPROVED: 3/20/18												
BIOEN 576	PROTEIN ENGINEERING Laboratory Techniques in Protein Engineering	AUT/1993 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.		
				LAST UPDT:12/08/93		APPROVED:12/06/93												

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				-ALL U	GRD		U N E	P	& N C M S N	A	S	W	T	P			
BIOEN 577	CELL PROTEIN REACTN Cell and Protein Reaction with Foreign Materials	SPR/1995 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/06/95		APPROVED: 4/17/95											
BIOEN 578	BIOMEMBRANES Biomembranes	AUT/1998 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/24/98		APPROVED: 6/23/98											
BIOEN 579	HOST RESP BIOMAT Host Response to Biomaterials	AUT/2001 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 7/06/01		APPROVED: 6/27/01											
BIOEN 581	ENG CELL BIOL Engineering Cell Biology	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/21/17		APPROVED:12/19/17											
BIOEN 583	VASCULAR ENGINEERING Vascular Biology and Engineering	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/07/18		APPROVED: 2/20/18											
BIOEN 585	COMPUTATIONAL BIOEN Computational Bioengineering	SPR/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/20/13		APPROVED: 2/19/13											
BIOEN 586	TISSUE ENGINEERING Tissue Engineering	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/16/14		APPROVED: 2/19/08											
	COMMENT:CHG DESC																
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 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											

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				-ALL U	GRD		E	U N E	P	& N C M S N	A S W T P R G						
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													
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	.	.	.	.	.	.			.	
				LAST UPDT: 4/16/12		APPROVED:12/18/81											
				COMMENT:CHG GRADING													
BIOEN 800	DOCTORAL DISSERTATN Doctoral Dissertation	SPR/2012 - AUT/9999	0.0	999.0	.	.	11	.	.	.	.	.	.			.	
				LAST UPDT: 4/16/12		APPROVED: 4/25/85											
				COMMENT:CHG GRADING													



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

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MEDENG 539 CLINIC DIAGNOSTICS AUT/2011 - AUT/9999 4.0  
Clinical Diagnostics

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

COMMENT:WAS BIOEN 539

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				-ALL U	GRD	E	U N E	P & A	N C M S N	E C Q T	P R G				
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							MEDENG519 MEDENG519		.
				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									.