

DATE: 10-08-2018
 TIME: 20:10:03

UNIVERSITY OF WASHINGTON STUDENT RECORDS SYSTEM
 DETAILED CURRICULUM REPORT
 Seattle CAMPUS

REPORT: SR21010-R-01 K
 PAGE: 1,426

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		U	P	GRD	E	U	N	E	P				& N	C	M	S	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 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													
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			

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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 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 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	E E	423 CSE	486	.
				LAST UPDT: 3/22/16		APPROVED:11/17/09											
				COMMENT:14-16 PREQ CHG													
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													
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											

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				-ALL	U		GRD	E	U	N	E	P	&	N			
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	.	.	.	.	Y	.	.	.	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 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/02/17		APPROVED: 6/07/16											
BIOEN 461	NEURAL TECH STUDIO Neural Engineering Tech Studio	WIN/2017 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/11/17		APPROVED: 6/07/16											
BIOEN 466	NEUROCOMP/ENGR LAB Neural Computation and Engineering Laboratory	SPR/2018 - WIN/2019	3.0	.	.	.	.	Y	.	Y	.	.	.	NBIO	405	NBIO	405
				LAST UPDT: 6/11/18		APPROVED: 1/19/16											
				FEE TYPE:1 \$110.00 BUDGET:069241 REV OBJ CD:943081													
BIOEN 466	NEUROCOMP/ENGR LAB Neural Computation and Engineering Laboratory	SPR/2019 - AUT/9999	3.0	.	.	.	.	Y	.	Y	.	.	.	NBIO	405	E E	466
				LAST UPDT: 6/11/18		APPROVED: 1/19/16											
				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											

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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 468	RT BIOSIGNAL PROC Real-Time Biosignal Processing	WIN/2018 - AUT/9999	3.0	
				LAST UPDT: 2/22/18		APPROVED: 2/20/18												
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																	
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 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												
	COMMENT:NEW DESCRIPTION																	
																	BIOEN 490 CHEM E490	.

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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 491	CONTROLLED REL SYS Controlled-Release Systems	WIN/2015 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	BIOEN 491 CHEM E491	.	.
	COMMENT:CHG TITLES																
BIOEN 492	SURFACE ANALYSIS Surface Analysis	WIN/1989 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	BIOEN 492 CHEM E458	.	.
BIOEN 493	ADV SURFACE ANLYS Advanced Surface Analysis	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	BIOEN 493 CHEM E493	.	.
BIOEN 494	ADV DRUG DELIVERY Advanced Drug Delivery	SPR/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.		.	.
BIOEN 497	BIOEN OUTREACH Bioengineering Education Outreach	SPR/2003 - AUT/9999	1.0-02.0	6.0	.	CR/NC	.	.	.	.	.	.	.	.		.	.
BIOEN 498	SPECIAL TOPICS Special Topics	AUT/2008 - AUT/9999	1.0-06.0	15.0	.	.	.	.	.	Y	.	.	.	.		.	.
BIOEN 499	SPECIAL PROJECTS Special Projects	WIN/2009 - AUT/9999	1.0-06.0	24.0	Y	CR/NC	.	.	.	.	.	.	.	.		.	.
	COMMENT:RESUME MAX CREDITS 5-20-08																
BIOEN 501	MOLEC BIOEN Molecular Bioengineering	SPR/2008 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.		.	.
BIOEN 502	CELL BIOEN Cellular Bioengineering	SPR/2008 - AUT/9999	4.0
BIOEN 503	SYSTEMS BIOEN Systems Bioengineering	SPR/2008 - AUT/9999	4.0

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CURRIC NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D		D	S H F			V L E E W					RESPONS COURSE	JOINT COURSES	O M I T
				-ALL U	GRD		U N E	P & A	N C M S N	E C Q T							
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	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG TITLES, PREQ			LAST UPDT: 5/15/12		APPROVED: 2/17/09											
BIOEN 506	APPLY TECH COMMERCN Applying Technology Commercialization	WIN/2013 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG GRADING, DESC, HRS			LAST UPDT: 5/29/12		APPROVED: 2/17/09											
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	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:PERM DL			LAST UPDT: 9/27/12		APPROVED:11/18/08											
BIOEN 510	BIOENG SEMINARS Bioengineering Seminars	AUT/2005 - AUT/9999	1.0	.	Y	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHANGE CREDITS, CRS DESCRIPT'N			LAST UPDT: 8/01/14		APPROVED:12/15/83											
BIOEN 511	BIOMATERIAL SEMINAR Biomaterials Seminar	SPR/2010 - AUT/9999	1.0	18.0	.	CR/NC	.	.	.	.	.	.	.	BIOEN 511 CHEM E511	.	.	.
	COMMENT:CHG MAX CREDITS			LAST UPDT:12/15/09		APPROVED: 1/24/85											
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											

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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
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												
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												

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

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				-ALL	U		GRD	E	U	N	E	P	&	N			
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													
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													

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					-ALL	U		GRD	E	U		N	E	P				&	N	C	M	S
					MAX	P	SYS	D	HYPH	M	R	E	A	S	W	T	P	R	G	COURSE	COURSES	T

BIOEN	800	DOCTORAL DISSERTATN	SPR/2012 - AUT/9999	0.0	999.0	.	.	11
		Doctoral Dissertation																				

LAST UPDT: 4/16/12 APPROVED: 4/25/85

COMMENT:CHG GRADING

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DEPARTMENT: BIOENGINEERING

CURRIC NUM	COURSE 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				I	E	C	Q	T	M
					MAX	P	SYS	D	HYPH	M	R	E	A	S	W	T	P	R	G	COURSE	COURSES	I	T

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

DATE: 10-08-2018
TIME: 20:10:03

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DETAILED CURRICULUM REPORT
Seattle CAMPUS

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PAGE: 1,441

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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		U N E	P & N C M S N	A S W T P R G	P	S	D	H	M				R	E
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											