



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: 978

COLLEGE : D - Environment  
 DEPARTMENT: AQUA & FISH SCI

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			
FISH 270	AQUATIC ECOPHYSLGY Aquatic Ecophysiology	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	FISH 270 OCEAN 270	.	
LAST UPDT: 4/25/18 APPROVED:12/16/14 MARBIO 270																	
FISH 274	INTRO DATA ANALYSIS Introduction to Data Analysis for Aquatic Sciences	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.		.	
LAST UPDT: 4/10/19 APPROVED: 2/19/19																	
FISH 290	SCI WRITING & COMM Scientific Writing and Communication	AUT/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.		.	
LAST UPDT: 1/10/19 APPROVED: 3/19/13																	
FISH 296	STUDY ABROAD Study Abroad: Aquatic and Fishery Sciences	SPR/2010 - AUT/9999	1.0-15.0	30.0	.	.	.	.	.	.	.	.	.	.		.	
LAST UPDT: 2/10/10 APPROVED: 1/31/05																	
COMMENT:MOVE COLLEGE																	
FISH 300	EXPLORE OPPS MARINE Exploring Opportunities in Marine Science	AUT/2018 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	OCEAN 300 MARBIO300	.	
LAST UPDT: 4/25/18 APPROVED: 2/18/14 OCEAN 300																	
FISH 310	BIOL OF SHELLFISHES Biology of Shellfishes	AUT/2012 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.		.	
LAST UPDT: 7/12/12 APPROVED: 9/14/89																	
COMMENT:12-14 DESC CHG																	
FISH 311	BIOLOGY OF FISHES Biology of Fishes	AUT/2012 - AUT/9999	3.0-05.0	5.0	.	.	.	.	.	.	.	.	.	.	FISH 311 BIOL 311	.	
LAST UPDT: 2/11/13																	
COMMENT:12-14 DESC CHG FEE TYPE:1 \$50.00 BUDGET:029357 REV OBJ CD:943081																	
FISH 312	FISHERIES ECOLOGY Fisheries Ecology	SPR/2020 - AUT/9999	3.0-05.0	.	.	.	.	.	.	.	.	.	.	.		.	
LAST UPDT: 2/20/20 APPROVED: 9/14/89																	
FEE TYPE:1 \$50.00 BUDGET:069602 REV OBJ CD:943081																	
FISH 323	CONS & MGT AQUA RES Conservation and Management of Aquatic Resources	AUT/2012 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.		.	
LAST UPDT: 7/12/12																	
COMMENT:12-14 DESC CHG																	
FISH 324	AQUATIC PHYSIOLOGY Aquatic Animal Physiology and Reproduction	WIN/2019 - AUT/9999	3.0-05.0	5.0	.	.	.	.	.	.	.	.	.	.		.	
LAST UPDT:11/14/18 APPROVED: 3/29/93																	
FEE TYPE:1 \$50.00 BUDGET:069602 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			
FISH 328	FOR-FISH INTERACT Forestry-Fisheries Interactions	SPR/2010 -	AUT/9999	4.0	.	.	.	.	Y	.	.	Y	.	.	.	ESRM 328	ESRM 328	.
COMMENT:MOVE COLLEGE					LAST UPDT: 6/25/15 APPROVED: 2/23/89 FEE TYPE:1 \$48.00 BUDGET:069393 REV OBJ CD:943081													
FISH 330	CLIMATE CHG MAR ECO Climate Change Impacts on Marine Ecosystems	SPR/2010 -	AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	FISH 330	ENVIR 330	.
COMMENT:MOVE COLLEGE					LAST UPDT: 2/10/10 APPROVED: 1/15/08													
FISH 340	GENETS & MOLEC ECOL Genetics and Molecular Ecology	SPR/2010 -	AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	FISH 340	BIOL 340	.
COMMENT:MOVE COLLEGE					LAST UPDT: 2/10/10 APPROVED: 1/30/03													
FISH 350	MARINE COASTAL ECOL MARINE ECOLOGY OF COASTAL SYSTEMS	WIN/2012 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	FISH 350	SMEA 350	.
COMMENT:CHG JT STATUS					LAST UPDT:12/11/12 APPROVED:10/25/04													
FISH 370	MARINE EVOLN BIOL Marine Evolutionary Biology	AUT/2018 -	AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	FISH 370	OCEAN 370	.
COMMENT:MOVE COLLEGE					LAST UPDT: 4/25/18 APPROVED:12/16/14 MARBIO 370													
FISH 404	FISH DISEASES Diseases of Aquatic Animals	SPR/2010 -	AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT: 7/17/15 APPROVED: 9/14/89 FEE TYPE:1 \$50.00 BUDGET:069602 REV OBJ CD:943081													
FISH 406	PARASITE ECOLOGY Parasite Ecology	AUT/2017 -	AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT: 6/19/17 APPROVED: 6/06/17													
FISH 415	FISH PHYSIOLOGY FISH PHYSIOLOGY	SPR/2010 -	AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT: 2/10/10 APPROVED: 5/10/73													
FISH 420	ECOL MARINE FISHES ECOLOGY OF MARINE FISHES	SPR/2011 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
COMMENT:EMAIL PREQ CHG					LAST UPDT:12/11/12 APPROVED: 9/17/96													

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 DEPARTMENT: AQUA & FISH SCI

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			
FISH 423	AQUA INVASION ECOL Aquatic Invasion Ecology	SPR/2010 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	Y	.	.	.
		COMMENT:MOVE COLLEGE		LAST UPDT: 2/10/10		APPROVED: 9/20/07										
FISH 424	BIOL CULT AQ ORG Biology and Culture of Aquatic Organisms	SPR/2010 - AUT/9999	5.0	.	.	.	.	.	.	.	.	Y	.	.	.	.
		COMMENT:MOVE COLLEGE		LAST UPDT: 2/10/10		APPROVED:10/27/05										
FISH 427	TROPICAL MAR BIOL Tropical Marine Biology	WIN/2019 - AUT/9999	5.0	.	.	.	.	.	.	.	.	Y	.	.	.	.
				LAST UPDT:11/16/18		APPROVED:11/13/18										
FISH 428	STREAM RESTORATION Stream and Watershed Restoration	SPR/2010 - AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.
		COMMENT:MOVE COLLEGE		LAST UPDT: 7/17/15		APPROVED:11/18/96		FEE TYPE:1 \$50.00 BUDGET:069602 REV OBJ CD:943081								
FISH 437	FISH OCEANOGRAPHY Fisheries Oceanography	AUT/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.
		COMMENT:14-16 RECOMMENDED CHG		LAST UPDT: 7/25/14		APPROVED:10/30/07										
FISH 441	ENVIR PHYSIOLOGY Integrative Environmental Physiology	SPR/2010 - AUT/9999	3.0-05.0	5.0	.	.	.	.	.	.	.	Y	.	.	.	.
		COMMENT:MOVE COLLEGE		LAST UPDT: 5/25/12		APPROVED: 9/16/08										
FISH 444	CONSERVATION GENET Conservation Genetics	AUT/2012 - AUT/9999	5.0	.	.	.	.	.	.	.	.	Y	.	.	.	.
		COMMENT:12-14 DESC CHG, RECOMMENDED		LAST UPDT: 1/31/13		APPROVED: 6/03/71										
FISH 447	WATERSHED ECOL Watershed Ecology and Management	SPR/2017 - AUT/9999	3.0	.	.	.	.	Y	.	.	Y	.	.	.	FISH 447 ESRM 447	.
				LAST UPDT: 3/03/17		APPROVED: 6/21/99		FEE TYPE:1 \$50.00 BUDGET:069602 REV OBJ CD:943081								
FISH 448	WATERSHED ECOL LAB Watershed Ecology and Management Lab	SPR/2017 - AUT/9999	2.0	.	.	.	.	Y	.	.	.	.	.	FISH 448 ESRM 448	.	.
				LAST UPDT:12/07/17		APPROVED: 2/21/17		FEE TYPE:1 \$70.00 BUDGET:069602 REV OBJ CD:943081								

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COURSE CURRIC NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D		D	S H F			V L E E W				RESPONS COURSE	JOINT COURSES	O M I T
				-ALL U	GRD		E	U N E	P & A	N S W	C M T	E C P	Q R G			
FISH 450	SAL BEHAV LIFE HIST Salmonid Behavior and Life History	SPR/2010 - AUT/9999	3.0-05.0	5.0	.	.	.	. . Y	. . Y	. . . .						
	COMMENT:MOVE COLLEGE															
									LAST UPDT: 3/10/15	APPROVED: 6/29/78						
									FEE TYPE:1 \$125.00	BUDGET:069602	REV OBJ CD:943081					
FISH 452	MARINE GIS Marine Geospatial Information Science	AUT/2017 - AUT/9999	3.0		.	.	.	. . .	. . Y	. . . .	OCEAN 452	OCEAN 452				
									LAST UPDT: 4/25/17	APPROVED: 3/28/01						
FISH 453	GEOSP TL PTRN ANLYS Geospatial Pattern Analysis and Geostatistics	SPR/2010 - AUT/9999	3.0		.	.	.	. . .	. . Y	. . . .	OCEAN 453	OCEAN 453				
									LAST UPDT: 7/18/16	APPROVED: 3/28/01						
FISH 454	ECOLOGICAL MODELING Ecological Modeling	AUT/2018 - AUT/9999	5.0		.	.	.	. . .	. . Y	. . . .	FISH 454 Q	SCI 454				
									LAST UPDT: 9/18/18	APPROVED: 1/31/05						
FISH 455	FISH WILDLIFE TOXIC Fish and Wildlife Toxicology	SPR/2010 - AUT/9999	3.0-05.0		.	.	.	. . Y	. . Y	. . . .	FISH 455	ESRM 457				
	COMMENT:MOVE COLLEGE								LAST UPDT:11/02/15	APPROVED: 9/22/97						
									FEE TYPE:1 \$50.00	BUDGET:069602	REV OBJ CD:943081					
FISH 458	ADV ECOL MODEL Advanced Ecological Modeling	SPR/2020 - AUT/9999	5.0		.	.	.	. . .	. . Y	. . . .	FISH 458 Q	SCI 458				
									LAST UPDT: 3/03/20	APPROVED: 5/29/75						
FISH 461	RES ECON MGMT PLCY Resource Economics for Management and Policy	AUT/2015 - AUT/9999	4.0		.	.	.	. . .	. Y	. . . .						
									LAST UPDT:12/29/14	APPROVED:12/16/14						
FISH 464	ARCTIC MARINE ECOL Arctic Marine Vertebrate Ecology	WIN/2013 - AUT/9999	4.0		.	.	.	. . .	. . Y	. . . .						
									LAST UPDT: 1/02/13	APPROVED:10/16/12						
FISH 473	LIMNOLOGY Limnology	AUT/2010 - AUT/9999	3.0		.	.	.	. . .	. . Y	. . . .	FISH 473	BIOL 473				
	COMMENT:10-12 PREQ CHG								LAST UPDT:12/29/10							
FISH 474	LIMNOLOGY LAB Limnology Laboratory	SPR/2010 - AUT/9999	2.0		.	.	.	. . Y	. . Y	. . . .	FISH 474	BIOL 474				
	COMMENT:MOVE COLLEGE								LAST UPDT: 3/12/15	APPROVED: 3/29/05	CEE	463				
									FEE TYPE:1 \$125.00	BUDGET:069602	REV OBJ CD:943081					

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COLLEGE : D - Environment  
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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	A	L	E	C	Q	T			
FISH 475	MARINE MAMMALOGY Marine Mammalogy	SPR/2010 - AUT/9999	3.0-05.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE		LAST UPDT: 7/23/15 APPROVED: 5/29/75 FEE TYPE:1 \$50.00 BUDGET:069602 REV OBJ CD:943081																
FISH 477	MARINE BIOL SEMINAR Seminar in Marine Biology	WIN/2011 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	OCEAN 477 BIOL 477
COMMENT:MOVE COLLEGE		LAST UPDT: 2/14/11 APPROVED: 9/22/10 OCEAN 477																
FISH 478	SUSTAINABLE FISH Topics in Sustainable Fisheries	SPR/2010 - AUT/9999	3.0	9.0	.	.	.	.	.	.	.	.	Y	Y	.	.	.	FISH 478 ENVIR 478
COMMENT:MOVE COLLEGE		LAST UPDT: 2/10/10 APPROVED:11/30/00 BIOL 478																
FISH 479	MARINE BIO RESEARCH Research in Marine Biology	AUT/2018 - AUT/9999	1.0-15.0	15.0	.	.	.	.	.	.	.	.	.	.	.	.	.	FISH 479 BIOL 479
COMMENT:MOVE COLLEGE		LAST UPDT: 4/25/18 APPROVED:10/21/08 FEE TYPE:1 \$90.00 BUDGET:029357 REV OBJ CD:943081 OCEAN 479 MARBIO 479																
FISH 480	HUMAN DIM FISH MGMT Human Dimensions of Fishery Management	WIN/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	Y	Y	.	.	.	FISH 480 SMEA 480
COMMENT:CHG JT STATUS		LAST UPDT: 9/07/11 APPROVED: 5/01/89																
FISH 489	PEER TEACING AFS Peer Teaching Assistants in Aquatic and Fishery Sciences	SPR/2013 - AUT/9999	1.0-05.0	10.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE		LAST UPDT: 3/21/13 APPROVED: 3/19/13																
FISH 490	AQUATIC MICROBIOL Aquatic Microbiology	SPR/2010 - AUT/9999	3.0-05.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	FISH 490 MICROM490
COMMENT:MOVE COLLEGE		LAST UPDT: 8/05/14																
FISH 491	RESEARCH IN ALASKA Aquatic Ecological Research in Alaska	SPR/2010 - AUT/9999	12.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	.
COMMENT:MOVE COLLEGE		LAST UPDT: 7/23/15 APPROVED: 2/21/01 FEE TYPE:1 \$300.00 BUDGET:069602 REV OBJ CD:943081																
FISH 492	MAR BIRD MAMM Ecology and Conservation of Marine Birds and Mammals	AUT/2018 - AUT/9999	9.0-15.0	15.0	.	.	.	.	.	.	.	.	Y	.	.	.	.	FHL 492 MARBIO492
COMMENT:MOVE COLLEGE		LAST UPDT:11/04/19 APPROVED:12/16/14 FEE TYPE:1 \$165.00 BUDGET:098456 REV OBJ CD:943081 FHL 492																







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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						
FISH 531	AQUATIC FOOD WEBS Aquatic Food Web Processes	SPR/2010 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 2/10/10		APPROVED: 1/19/10											
FISH 537	FISH OCEANOGRAPHY Fisheries Oceanography	SPR/2010 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 7/25/14		APPROVED:10/30/07											
				COMMENT:MOVE COLLEGE													
FISH 538	FISH ACOUSTICS Fisheries Acoustics	AUT/2013 - AUT/9999	3.0-05.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 4/16/13		APPROVED: 4/16/13											
FISH 539	US FISH MGT POL U.S. Fisheries Management and Policy	WIN/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	SMEA 539	SMEA 539	.	
				LAST UPDT: 7/23/15		APPROVED: 9/17/13											
FISH 541	ENVIR PHYSIOLOGY Integrative Environmental Physiology	SPR/2010 - AUT/9999	3.0-05.0	5.0	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 5/25/12		APPROVED: 9/16/08											
				COMMENT:MOVE COLLEGE													
FISH 545	APPL POP GENETICS Applied Population Genetics	SPR/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 2/10/10		APPROVED: 8/19/08											
				COMMENT:MOVE COLLEGE													
FISH 546	BIOINFORMATICS Bioinformatics for Environmental Sciences	SPR/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 2/10/10		APPROVED:10/20/09											
FISH 547	RIVER ECOL & MNGMT River Ecology and Watershed Management	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 7/25/14		APPROVED:10/27/89											
				COMMENT:14-16 DESC CHG													
FISH 552	INTRO R PROGRAMMING Introduction to R Programming for Natural Scientists	AUT/2011 - AUT/9999	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 9/17/12		APPROVED: 5/17/11											
FISH 553	ADV R PROGRAMMING Advanced R Programming for Natural Scientists	AUT/2013 - AUT/9999	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 8/22/13		APPROVED: 5/17/11											
				COMMENT:CHG CREDITS													

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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			
FISH 554	GRAPHICS IN R Beautiful Graphics in R	WIN/2014 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/06/13		APPROVED: 6/04/13											
FISH 555	AGE STRUCTURED MODEL Age-Structured Models in Fisheries Stock Assessment	SPR/2019 - SPR/2025	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/29/19		APPROVED: 1/22/19											
FISH 556	SPATIAL MODELING Spatio-temporal Models for Ecologists	SPR/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/08/18		APPROVED:12/19/17											
FISH 557	EST POP PARAMETERS Estimation of Population Parameters	SPR/2010 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 2/10/10													
FISH 558	DECISION ANALYSIS Decision Analysis in Natural Resource Management	SPR/2010 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 2/10/10													
FISH 559	NATURAL RES COMPUTE Numerical Computing for the Natural Resources	SPR/2010 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 2/10/10		APPROVED: 3/17/09											
FISH 560	MULTIVARIATE STATS Applied Multivariate Statistics for Ecologists	SPR/2010 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 2/10/10		APPROVED: 8/23/07											
FISH 561	RES ECON MGMT PLCY Resource Economics for Management and Policy	AUT/2015 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/29/14		APPROVED:12/16/14											
FISH 562	ECOSYS BSD MGT Ecosystem Based Fisheries Management	SPR/2015 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/18/15		APPROVED: 2/18/15											
FISH 563	ECOSYS BSD MGT LAB Ecosystem Based Fisheries Management Laboratory	SPR/2015 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/18/15		APPROVED: 2/18/15											



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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 & A	N C M S N	E C Q T							
ATM S 100	CLIMATE SOLUTIONS Climate, Justice, and Energy Solutions	AUT/2020 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 2/20/20		APPROVED: 2/18/20												
ATM S 101	WEATHER Weather	WIN/2013 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 1/16/13														
				COMMENT:END DL														
ATM S 103	HURRICANE SCIENCE Hurricanes and Thunderstorms: Their Science and Impact	SPR/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT:11/20/13		APPROVED:11/19/13												
ATM S 111	GLOBAL WARMING Global Warming: Understanding the Issues	AUT/2012 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 6/20/12		APPROVED: 1/15/08												
				COMMENT:ADD AOK														
ATM S 211	CLIMATE CHANGE Climate and Climate Change	SPR/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT:12/19/18		APPROVED: 6/30/95												
ATM S 212	AIR POLLUTION Air Pollution: From Urban Smog to the Ozone Hole	AUT/2012 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 9/05/12		APPROVED: 3/29/06												
				COMMENT:ADD AOK														
ATM S 220	EXPLORING ATMOS SCI Exploring the Atmospheric Sciences	WIN/2013 - AUT/9999	1.0	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 7/23/15		APPROVED: 6/21/11												
				COMMENT:CHG MAX CREDITS														
ATM S 290	WEATHER CHALLENGE The Weather Challenge	AUT/2015 - AUT/9999	1.0	8.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 8/05/15		APPROVED: 3/19/13												
ATM S 301	INTRO TO ATMOSPH SC Introduction to Atmospheric Sciences	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 8/12/09														
				COMMENT:MOVE COLLEGE														
ATM S 321	SCIENCE OF CLIMATE The Science of Climate	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 8/12/09														
				COMMENT:MOVE COLLEGE														



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				-ALL	U	GRD	E	U	N	E	P	&	N	C	M			
ATM S 441	ATMOS MOTIONS I Atmospheric Motions I	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09														
ATM S 442	ATMOS MOTIONS II Atmospheric Motions II	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09 APPROVED: 2/22/90														
ATM S 444	ENSEMBLE PRED SYS Design and Application of Ensemble Prediction Systems	AUT/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	.
	COMMENT:CHG PREQ			LAST UPDT: 3/21/13 APPROVED: 1/18/11														
ATM S 451	INSTRUMENTS OBS Instruments and Observations	WIN/2014 - AUT/9999	5.0	.	.	.	.	.	Y	.	.	.	Y	.	.	.	.	.
	COMMENT:CHG FEE			LAST UPDT:10/26/16 APPROVED: 1/24/96 FEE TYPE:1 \$66.00 BUDGET:069119 REV OBJ CD:943081														
ATM S 452	FORECASTING LAB Weather Forecasting and Advanced Synoptic Meteorology	AUT/2013 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	.
	COMMENT:CHG PREQ			LAST UPDT: 3/22/13														
ATM S 458	AIR POLLUTION CHEM Air Pollution Chemistry	AUT/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	ATM S 458 CHEM 458	.
	COMMENT:CHG TITLES, DESC, PREQ			LAST UPDT: 7/03/12														
ATM S 460	WATER IN ENVIRONMNT Water in the Environment	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	Y	.	.	ESS 424 PHYS 460	.	
	COMMENT:MOVE COLLEGE			LAST UPDT: 6/11/19 APPROVED: 2/25/00														
ATM S 475	CLMT SCI RSRCH SMNR Current Research in Climate Science Seminar	AUT/2011 - AUT/9999	3.0	6.0	.	.	.	.	.	.	.	.	.	.	.	OCEAN 475 ESS 475	.	
				LAST UPDT: 3/22/16 APPROVED: 1/18/11														
ATM S 480	AIR QLTY MODELING Air-Quality Modeling	AUT/2015 - AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	Y	.	.	CEE 480 CEE 480	.	
	COMMENT:EMAIL PREQ CHG			LAST UPDT: 3/23/16 APPROVED:12/01/99 FEE TYPE:1 \$50.00 BUDGET:069644 REV OBJ CD:943081														

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				-ALL U	GRD		U N E	P & N	C M S N		L I E C Q T	A S W T P R G					
ATM S 487	FUND CLIMATE CHANGE Fundamentals of Climate Change	AUT/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 4/16/13		APPROVED: 3/16/13											
ATM S 490	WEATHER ANALYSIS Current Weather Analysis	AUT/2009 - AUT/9999	1.0	6.0	.	CR/NC	.	.	.	.	Y	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09		APPROVED:10/28/02											
ATM S 492	METEOR/CLMTLGY READ Readings in Meteorology or Climatology	AUT/2009 - AUT/9999	0.0	15.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09													
ATM S 493	MTR/CLMTL SPEC PROB SPEC PROBLMS IN METEOROLOGY/CLIMATOLOGY	AUT/2009 - AUT/9999	0.0	.	CR/NC	.	.	.	.	.	Y	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09													
ATM S 495	EARTHGAMES STUDIO EarthGames Studio	WIN/2017 - AUT/9999	2.0-06.0	15.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:10/06/16		APPROVED: 9/20/16											
ATM S 497	INTERNSHIP Undergraduate Internship	SPR/2014 - AUT/9999	1.0-05.0	30.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/20/13		APPROVED:11/19/13											
ATM S 498	SYNTHESIS & COM - H HONORS SYNTHESIS AND COMMUNICATION	SPR/2018 - AUT/9999	1.0-05.0	6.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/08/18		APPROVED:12/19/17											
ATM S 499	UNDERGRAD RESEARCH Undergraduate Independent Research	SPR/2014 - AUT/9999	1.0-05.0	30.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/20/13		APPROVED:11/19/13											
ATM S 501	ATMOS PHYS & CHEM Fundamentals of Physics and Chemistry of the Atmosphere	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09		APPROVED: 3/01/89											
ATM S 502	INTRO SYNOPTIC MET Introduction to Synoptic Meteorology	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09													





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						-ALL	U		GRD	E	U	N	E	P	&	N			
ATM S	514	ICE AND CLIMATE Ice and Climate	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	ESS	535	ESS	535	.
COMMENT:MOVE COLLEGE						LAST UPDT:10/17/18		APPROVED:12/01/83											
ATM S	519	SCIENTIFIC WRITING Scientific Writing and Graphics	AUT/2013 -	AUT/9999	2.0	.	CR/NC	.	.	.	.	.	.	ESS	519	ESS	519	.	
COMMENT:MOVE COLLEGE						LAST UPDT: 3/21/13		APPROVED: 3/19/13		OCEAN		518							
ATM S	520	ATM S COLLOQUIUM Atmospheric Sciences Colloquium	AUT/2009 -	AUT/9999	1.0	24.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE						LAST UPDT: 8/12/09		APPROVED: 5/26/94											
ATM S	521	SMNR ATMOS& CLIM DYN Seminar in Atmospheric and Climate Dynamics	WIN/2010 -	AUT/9999	0.0	24.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	.	.
COMMENT:CHG TITLES. 4/2013 RETRO MAX						LAST UPDT: 4/25/13		APPROVED: 3/02/72											
ATM S	523	SMNR ATMS PHYS&CHEM Seminar in Atmospheric Physics and Chemistry	WIN/2010 -	AUT/9999	0.0	24.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	.	.
COMMENT:CHG TITLES, 4/2013 RETRO MAX						LAST UPDT: 4/25/13		APPROVED:10/29/90											
ATM S	524	CLIM DYN/ENRGY TRNS Seminar in Climate Dynamics and Energy Transfer	AUT/2009 -	AUT/9999	0.0	24.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE, 4/2013 RETRO MAX						LAST UPDT: 4/25/13		APPROVED: 6/28/93											
ATM S	525	SMNR ATMOS CHEM Seminar - Topics in Atmospheric Chemistry	WIN/2018 -	AUT/9999	1.0-03.0	6.0	Y	.	.	.	.	.	.	CEWA	553	CEWA	553	.	
COMMENT:MOVE COLLEGE						LAST UPDT:12/26/17		APPROVED: 1/28/00											
ATM S	532	ATMOS RAD-INTRO Atmospheric Radiation: Introductory	WIN/2010 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:DROP JT STAUTS						LAST UPDT: 8/12/09		APPROVED: 9/27/91											
ATM S	533	ATMOS RAD-ADVANCED Atmospheric Radiation: Advanced	WIN/2010 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:DROP JT STATUS						LAST UPDT: 8/12/09		APPROVED: 9/27/91											





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COURSE CURRIC NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D		D	S H F			V L E E W					RESPONS COURSE	JOINT COURSES	O M I T
				-ALL U	GRD		E	U N E	P & N	C M S N	A S W T P R G						
ATM S 571	ADV PHYSICAL CLIMAT Advanced Physical Climatology	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE				LAST UPDT: 8/12/09		APPROVED:10/01/89											
ATM S 575	LS DYNAM-TROP ATMOS Large Scale Dynamics of the Tropical Atmosphere	AUT/2011 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:CHG GRADING				LAST UPDT: 2/14/11		APPROVED: 3/31/92											
ATM S 581	TIME DEPNDT PROBS Numerical Analysis of Time Dependent Problems	SPR/2014 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	AMATH 586	MATH 586	586	.
COMMENT:EMAIL PREQ CHG				LAST UPDT: 3/21/16		APPROVED: 6/07/79											
ATM S 582	ADV NUMERICAL MODEL Advanced Numerical Modeling of Geophysical Flows	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE				LAST UPDT: 8/12/09		APPROVED: 1/30/92											
ATM S 585	PNW CLIMATE IMPACTS Climate Impacts on the Pacific Northwest	WIN/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	ATM S 585	ENVIR 585	585	.
COMMENT:CHG JT STATUS				LAST UPDT: 9/07/11		APPROVED: 1/30/03											
ATM S 586	CLIMATE SEMINAR Current Research in Climate Change	SPR/2010 - AUT/9999	2.0	20.0	.	CR/NC	.	.	.	.	.	.	.	ESS 586	ESS 586	586	.
COMMENT:MOVE JT COLLEGE				LAST UPDT: 2/10/10		APPROVED: 2/25/02											
ATM S 587	FUND CLIMATE CHANGE Fundamentals of Climate Change	AUT/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	ESS 587	OCEAN 587	587	.
COMMENT:CHG TITLES, DESC				LAST UPDT: 3/21/13		APPROVED: 2/25/02											
ATM S 588	CARBON AND CLIMATE The Global Carbon Cycle and Climate	SPR/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	OCEAN 588	ESS 588	588	.
COMMENT:MOVE JT COLLEGE				LAST UPDT: 2/10/10		APPROVED: 2/25/02											
ATM S 589	PALEOCLIMATOLOGY Paleoclimatology: Data, Modeling, and Theory	SPR/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	ESS 589	OCEAN 589	589	.
COMMENT:MOVE JT COLLEGE				LAST UPDT:11/27/19		APPROVED: 2/25/02											



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				-ALL	U		GRD	E	U							
C ENV 190	INTRODUCTORY TOPICS Introductory Topics in Environment	AUT/2011 - AUT/9999	1.0-05.0	15.0	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 3/22/11		APPROVED: 3/15/11										
C ENV 401	FIELDNOTES FieldNotes - An Undergraduate Journal	SPR/2020 - AUT/9999	2.0	6.0	.	CR/NC	.	.	.	.	.	.	.			.
				LAST UPDT: 1/23/20		APPROVED: 1/21/20										
C ENV 410	MESA TUTOR WRKSHIP MESA Introductory Tutor Training Workshop	AUT/2014 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.			.
				LAST UPDT: 4/16/14		APPROVED: 4/15/14										
C ENV 420	MESA TUTOR SEMNR MESA Introductory Tutor Training Seminar	AUT/2014 - AUT/9999	1.0-02.0	.	CR/NC	.	.	.	.	.	.	.	.			.
				LAST UPDT: 4/16/14		APPROVED: 4/15/14										
C ENV 425	MESA TUTORING MESA Tutoring Practicum	AUT/2014 - AUT/9999	1.0-03.0	15.0	.	CR/NC	.	.	.	.	.	.	.			.
				LAST UPDT: 4/16/14		APPROVED: 4/15/14										
C ENV 430	MESA ADV TUTOR SEM MESA Advanced Tutor Training Seminar	AUT/2014 - AUT/9999	1.0-02.0	.	CR/NC	.	.	.	.	.	.	.	.			.
				LAST UPDT: 4/16/14		APPROVED: 4/15/14										
C ENV 490	SPECIAL TOPICS Special Topics in Environment	WIN/2011 - AUT/9999	1.0-05.0	15.0	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:10/19/10		APPROVED:10/19/10										
C ENV 500	COM SCI TO PUBLIC Communicating Science to the Public Effectively	WIN/2013 - AUT/9999	3.0	.	CR/NC	.	.	.	.	.	.	.	.			.
				LAST UPDT:10/30/12		APPROVED: 9/18/12										
C ENV 590	SPECIAL TOPICS Special Topics in Environment	WIN/2011 - AUT/9999	1.0-05.0	15.0	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:10/19/10		APPROVED:10/19/10										



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				-ALL	U		GRD	E	U	N	E	P	& N	C				M
ENVIR 100	INTRO ENV STUDIES Introduction to Environmental Studies	WIN/2016 - SPR/2020	5.0	.	.	.	.	.	.	Y	Y	.	.	.	.	.	.	.
				LAST UPDT: 2/20/20		APPROVED: 1/25/06												
ENVIR 100	INTRO ENV STUDIES Introduction to Environmental Studies	SUM/2020 - AUT/9999	5.0	.	.	.	.	.	.	Y	Y	.	.	.	.	.	.	.
				LAST UPDT: 2/20/20		APPROVED: 1/25/06												
ENVIR 101	ORIENTATION TO ENVIR Orientation to Environmental Studies	SPR/2020 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/23/20		APPROVED: 1/21/20												
ENVIR 102	IB ENVIR SYS & SOC International Baccalaureate (IB) Environmental Systems & Societies	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT: 1/22/20		APPROVED: 1/21/20												
ENVIR 103	SOCIETY & THE OCEANS Society and the Oceans	AUT/2012 - AUT/9999	5.0	.	.	.	.	.	.	Y	Y	.	.	.	SMEA 103	JSIS B103	.	
				LAST UPDT:12/15/11		APPROVED:12/21/10												
				COMMENT:CHG JT STATUS														
ENVIR 110	FOOD & ENVIRONMENT Introduction to Food and the Environment	AUT/2017 - AUT/9999	5.0	.	.	.	.	.	.	Y	Y	.	.	.	.	.	.	.
				LAST UPDT: 5/04/17		APPROVED: 4/18/17												
ENVIR 200	ENVIR COMMUNICATION Communication for Environmental Studies	SPR/2018 - AUT/9999	5.0	.	.	.	.	.	.	Y	Y	.	.	.	.	.	.	.
				LAST UPDT: 3/10/20		APPROVED: 3/29/06												
ENVIR 201	CLIMATE GOVERNANCE Climate Governance: How Individuals, Communities, NGOs, Firms, and Governments Can Solve the Climate Crisis	AUT/2020 - AUT/9999	5.0	.	.	.	.	.	.	Y	Y	.	.	.	SMEA 201	SMEA 201	.	
				LAST UPDT: 3/24/20		APPROVED: 2/18/20												
ENVIR 210	INTRO ENVIR MODEL Introduction to Environmental Modeling	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	Y	.	Y	.	Q SCI 210	Q SCI 210	.		
				LAST UPDT: 9/18/18		APPROVED:12/30/86												
ENVIR 211	ENVIR JUSTICE Environmental Justice	SPR/2010 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	ANTH 211	AES 211	.		
				LAST UPDT: 6/21/17		APPROVED: 9/15/09												
				ANTH 211														
ENVIR 221	US ENVIRON HIST Environmental History of the United States	SPR/2010 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	HSTAA 221	HSTAA 221	.		
				LAST UPDT: 2/16/10		APPROVED: 2/16/10												
				COMMENT:JOINT WITH HSTAA 221														









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				-ALL U MAX	GRD P	E SYS	D HYPH	U N E M R E	P & A	N S W	C M S P	E C Q T R G						
ENVIR 417	ENVIRONMENTAL PHIL Advanced Topics in Environmental Philosophy	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	PHIL 417	PHIL 417	.	
COMMENT:MOVE COLLEGE				LAST UPDT: 8/12/09 APPROVED:10/25/06														
ENVIR 418	COM & ENVIRONMENT Communication and the Environment	AUT/2015 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	COM 418	COM 418	.	
				LAST UPDT: 8/19/15 APPROVED: 9/28/98														
ENVIR 431	ECOPSYCHOLOGY Ecopsychology	AUT/2015 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	ENVIR 431	PSYCH 431	.	
				LAST UPDT: 7/23/15 APPROVED: 6/02/15												ESRM 431		
ENVIR 433	ENVIR DEGRAD TROPIC Environmental Degradation in the Tropics	AUT/2012 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	JSIS B433	JSIS B433	.	
COMMENT:CHG JT STATUS				LAST UPDT:11/14/13 APPROVED:10/29/03												SMEA 433		
ENVIR 439	SUSTAINABLE SOCIETY Attaining a Sustainable Society	WIN/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.	
COMMENT:DROP JT STATUS, CHG CREDITS				LAST UPDT: 8/21/13 APPROVED: 6/21/99														
ENVIR 440	ENVIR PEDADGOGY Environmental Pedagogy	AUT/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 4/29/19 APPROVED: 6/03/14														
				FEE TYPE:1 \$13.00 BUDGET:069240 REV OBJ CD:943081														
ENVIR 451	COMPAR ECOL TROPICS COMPARATIVE HISTORICAL AND SOCIAL ECOLOGY OF THE T	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	ANTH 451	ANTH 451	.	
COMMENT:MOVE COLLEGE				LAST UPDT:12/11/12 APPROVED: 2/25/00														
ENVIR 459	CLTR ECOL & POLITICS Culture, Ecology, and Politics	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	ANTH 459	ANTH 459	.	
				LAST UPDT: 2/19/15 APPROVED: 6/21/99														
ENVIR 460	PWR PRIV & PRSERV Power, Privilege, and Preservation	AUT/2015 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	ENVIR 460	ESRM 460	.	
				LAST UPDT: 9/16/15 APPROVED: 4/15/18														







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 DEPARTMENT: EARTH AND SPACE SCIENCES

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				-ALL U	GRD		E	U N E	P & A	N S	C M	S N	R				
ESS 100	DINOSAURS Dinosaurs	AUT/2009 - AUT/9999	2.0	.	.	.	.	.	.	Y	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE				LAST UPDT: 8/12/09 APPROVED:12/01/85													
ESS 101	GEOLOGY & SOCIETY Introduction to Geology and Societal Impacts	WIN/2018 - AUT/9999	5.0	.	.	.	.	Y	.	Y	Y	.	.	.	.	.	.
FEE TYPE:1 \$30.00 BUDGET:068342 REV OBJ CD:943081				LAST UPDT: 1/10/19 APPROVED: 1/01/82													
ESS 102	SPACE&SPACE TRAVEL Space and Space Travel	SPR/2016 - AUT/9999	5.0	.	.	.	.	Y	.	Y	Y	.	.	.	.	.	.
COMMENT:END INTIAL DL				LAST UPDT: 1/10/19													
FEE TYPE:1 \$20.00 BUDGET:068343 REV OBJ CD:943081				APPROVED: 9/24/01													
ESS 103	MINERALS AND GEMS Minerals and Gems	AUT/2009 - AUT/9999	3.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE				LAST UPDT: 6/11/19 APPROVED: 9/24/01													
FEE TYPE:1 \$11.00 BUDGET:069340 REV OBJ CD:943081				APPROVED: 1/30/03													
ESS 104	PREHISTORIC LIFE Prehistoric Life	AUT/2009 - AUT/9999	3.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE				LAST UPDT: 8/06/12 APPROVED: 1/30/03													
FEE TYPE:1 \$10.00 BUDGET:069340 REV OBJ CD:943081				APPROVED: 4/28/03													
ESS 105	PROCESSES & HAZARDS The Earth: Its Processes and Hazards	AUT/2009 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE				LAST UPDT: 6/11/19 APPROVED: 4/28/03													
FEE TYPE:1 \$15.00 BUDGET:069340 REV OBJ CD:943081				APPROVED: 4/28/03													
ESS 106	LIVING WITH VOLCANO Living with Volcanoes	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	Y	Y	.	.	.	.	.	.
COMMENT:MOVE COLLEGE				LAST UPDT: 8/12/09 APPROVED: 4/28/03													
ESS 115	INTRO ASTROBIOLOGY Astrobiology: Life in the Universe	SPR/2010 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	.	.	ASTBIO115 OCEAN 115	.
COMMENT:MOVE JT COLLEGE				LAST UPDT:11/27/19 APPROVED: 2/27/04													
																ASTR 115	
																BIOL 114	
																ASTBIO 115	
ESS 119	ESS LAB TOURS Introduction to Laboratories	SPR/2013 - AUT/9999	1.0	3.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 1/16/13 APPROVED: 1/15/12																	



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 DEPARTMENT: EARTH AND SPACE SCIENCES

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				-ALL U	GRD		U N E	P & N	C M S N	A S W T P R G					
ESS 201	CLIMATE SYSTEM Earth's Climate System	SPR/2019 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.			.
LAST UPDT:12/19/18 APPROVED: 6/27/01															
ESS 202	EARTHQUAKES Earthquakes	AUT/2012 - AUT/9999	5.0	.	.	.	Y	.	Y	Y	.	.			.
LAST UPDT: 9/18/12 APPROVED: 3/13/97															
COMMENT:ADD AOK FEE TYPE:1 \$15.00 BUDGET:069340 REV OBJ CD:943081															
ESS 203	GLACIERS/GLBL CHNGE Glaciers and Global Change	WIN/2013 - AUT/9999	5.0	.	.	.	Y	.	Y	Y	.	.			.
LAST UPDT: 1/10/19 APPROVED: 9/28/98															
COMMENT:CHG AOK, DESC FEE TYPE:1 \$12.00 BUDGET:068344 REV OBJ CD:943081															
ESS 204	PALEOBI MASS EXTNCT The Paleobiology and Geobiology of Mass Extinctions	WIN/2015 - AUT/9999	3.0-04.0	.	.	.	.	.	.	Y	.	.			.
LAST UPDT:10/17/17 APPROVED:11/18/14															
ESS 205	ACCESS TO SPACE Access to Space	AUT/2009 - AUT/9999	5.0	.	.	.	Y	.	Y	Y	.	.			.
LAST UPDT: 1/10/19 APPROVED: 2/26/03															
COMMENT:MOVE COLLEGE FEE TYPE:1 \$32.00 BUDGET:068345 REV OBJ CD:943081															
ESS 209	INTERDISC FIELD SEM Interdisciplinary Earth Sciences Field Seminar	AUT/2009 - AUT/9999	3.0-12.0	12.0	.	.	.	.	.	Y	.	.			.
LAST UPDT: 8/12/09 APPROVED: 7/13/05															
COMMENT:MOVE COLLEGE															
ESS 210	PHYSICAL GEOLOGY Physical Geology	SPR/2017 - SPR/2020	5.0	.	.	.	Y	.	Y	Y	.	.			.
LAST UPDT: 8/14/19 APPROVED: 1/01/82 DROPPED: 8/13/19															
FEE TYPE:1 \$20.00 BUDGET:068346 REV OBJ CD:943081															
ESS 211	PHYS PROC EARTH Physical Processes of the Earth	AUT/2019 - SPR/2020	5.0	.	.	.	Y	.	Y	Y	.	.			.
LAST UPDT:12/18/19 APPROVED: 3/17/97															
FEE TYPE:1 \$26.00 BUDGET:069340 REV OBJ CD:943081															
ESS 211	PHYS PROC EARTH Physical Processes of the Earth	SUM/2020 - AUT/9999	5.0	.	.	.	Y	.	Y	Y	.	.			.
LAST UPDT:12/18/19 APPROVED: 3/17/97															
FEE TYPE:1 \$26.00 BUDGET:069340 REV OBJ CD:943081															

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				-ALL U	GRD		E	U N E	P	N	C	M	S	N			
ESS 212	EARTH MATERIALS Earth Materials and Processes	AUT/2019 - SPR/2020	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 1/03/20 APPROVED: 9/22/97 FEE TYPE:1 \$75.00 BUDGET:068347 REV OBJ CD:943081													
ESS 212	TECT & MATLS EARTH Plate Tectonics and Materials of the Earth	SUM/2020 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 1/03/20 APPROVED: 9/22/97 FEE TYPE:1 \$75.00 BUDGET:068347 REV OBJ CD:943081													
ESS 213	EVOLUTION OF EARTH Evolution of the Earth	AUT/2019 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 4/03/19 APPROVED: 9/22/97 FEE TYPE:1 \$40.00 BUDGET:068348 REV OBJ CD:943081													
ESS 230	RIVERS AND BEACHES Rivers and Beaches	SPR/2010 - AUT/9999	3.0-05.0	.	.	.	.	Y	.	Y	.	.	.	.	ESS 230 OCEAN 230	.	.
				LAST UPDT: 1/10/19 APPROVED: 4/28/03 FEE TYPE:1 \$50.00 BUDGET:068349 REV OBJ CD:943081 COMMENT:MOVE JT COLLEGE													
ESS 290	SPECIAL TOPICS Special Topics	WIN/2017 - AUT/9999	1.0-10.0	20.0	.	.	.	.	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 5/11/17 APPROVED: 6/07/16													
ESS 298	EARTH SCI OPPORTS Exploring Opportunities in Earth and Space Sciences	SPR/2020 - AUT/9999	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/24/20 APPROVED:12/17/19													
ESS 301	GEOL OF NORTHWEST Geology of the Northwest	AUT/2009 - SPR/2020	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 1/07/20 FEE TYPE:1 \$25.00 BUDGET:068350 REV OBJ CD:943081 COMMENT:MOVE COLLEGE													
ESS 301	GEOL OF NORTHWEST Geology of the Northwest	SUM/2020 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 1/07/20 FEE TYPE:1 \$25.00 BUDGET:068350 REV OBJ CD:943081													
ESS 302	GREAT ICE AGE Great Ice Age	AUT/2009 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 1/30/18 APPROVED:10/01/85 FEE TYPE:1 \$20.00 BUDGET:069340 REV OBJ CD:943081 COMMENT:MOVE COLLEGE													

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					-ALL	U		GRD	E	U	N	E	P	&	N			
ESS 303	GEOLOGIC HAZARDS GEOLOGIC HAZARDS	AUT/2009 -	AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT:12/11/12 APPROVED:12/06/91													
					COMMENT:MOVE COLLEGE													
ESS 304	NW VOLC AND GLAC Volcanoes and Glaciers of the Pacific Northwest	AUT/2009 -	AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT:12/14/17 APPROVED:12/01/83													
					FEE TYPE:1 \$39.00 BUDGET:069340 REV OBJ CD:943081													
ESS 305	GEOL NATIONAL PARKS Geology of the National Parks	AUT/2009 -	SPR/2020	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 1/07/20 APPROVED:12/01/89													
					FEE TYPE:1 \$30.00 BUDGET:069340 REV OBJ CD:943081													
ESS 305	GEOL NATIONAL PARKS Geology of the National Parks	SUM/2020 -	AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 1/07/20 APPROVED:12/01/89													
					FEE TYPE:1 \$30.00 BUDGET:069340 REV OBJ CD:943081													
ESS 306	PLANETARY GEOLOGY Planetary Geology	AUT/2009 -	SPR/2020	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 1/07/20 APPROVED:12/10/90													
					COMMENT:MOVE COLLEGE													
ESS 306	PLANETARY GEOLOGY Planetary Geology	SUM/2020 -	AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 1/07/20 APPROVED:12/10/90													
ESS 307	ESS DIV OUTREACH Diversity Outreach Program in Earth and Space Sciences	SPR/2019 -	AUT/9999	3.0-05.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT:10/31/18 APPROVED:12/13/16													
ESS 310	EARTH SCI MATH Mathematical Methods in the Earth Sciences	SUM/2017 -	AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 3/22/17 APPROVED: 8/21/12													
ESS 311	GEOMECHANICS Geomechanics	AUT/2019 -	AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 4/03/19 APPROVED: 2/25/98													
					FEE TYPE:1 \$10.00 BUDGET:068351 REV OBJ CD:943081													

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						-ALL	U		GRD	E	U		N	E	P	& N				C	M	S	N	L
						MAX	P	SYS	D	HYPH	M	R	E	A	S	W	T	P	R	G	COURSE	COURSES	I	
ESS	312	GEOCHEMISTRY Geochemistry	AUT/2019 -	SPR/2020	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.			.	
						LAST UPDT:12/18/19 APPROVED: 2/25/98																		
ESS	312	EARTH MATERIALS Earth Materials	SUM/2020 -	AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.			.	
						LAST UPDT:12/18/19 APPROVED: 2/25/98																		
ESS	313	GEOBIOLOGY Geobiology	WIN/2018 -	AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.	.			.	
						LAST UPDT: 1/10/19 APPROVED: 2/25/98																		
						FEE TYPE:1 \$40.00 BUDGET:068352 REV OBJ CD:943081																		
ESS	314	GEOPHYSICS Geophysics	AUT/2019 -	AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.			.	
						LAST UPDT: 4/03/19 APPROVED:10/29/03																		
ESS	315	ENVIR EARTH SCI Environmental Earth Science	AUT/2009 -	SPR/2020	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.	.	ESS	315	ENVIR 313	.
						LAST UPDT: 1/07/20 APPROVED: 3/01/76																		
						COMMENT:MOVE COLLEGE FEE TYPE:1 \$20.00 BUDGET:068353 REV OBJ CD:943081																		
ESS	315	ENVIR EARTH SCI Environmental Earth Science	SUM/2020 -	AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.	.	ESS	315	ENVIR 313	.
						LAST UPDT: 1/07/20 APPROVED: 3/01/76																		
						FEE TYPE:1 \$20.00 BUDGET:068353 REV OBJ CD:943081																		
ESS	316	GEOCHEMISTRY Geochemistry	SUM/2020 -	AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.			.	
						LAST UPDT:12/18/19 APPROVED:12/17/19																		
ESS	320	CHANGING RIVERS Changing Rivers of Puget Sound	SPR/2011 -	AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.	.	ESS	320	ENVIR 320	.
						LAST UPDT: 8/05/14 APPROVED:12/21/10																		
						COMMENT: DING FEE TYPE:1 \$30.00 BUDGET:069340 REV OBJ CD:943081																		
ESS	326	GEOMORPHOLOGY Geomorphology	AUT/2012 -	AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.	.			.	
						LAST UPDT: 1/10/19 APPROVED: 2/25/98																		
						COMMENT:CHG PREQ FEE TYPE:1 \$30.00 BUDGET:068354 REV OBJ CD:943081																		
ESS	345	MINERAL DEPOSITS The Environment of Fuel and Mineral Deposits	SPR/2012 -	SPR/2020	3.0	.	.	.	.	Y	.	.	Y	Y	.	.	.	.	.	.			.	
						LAST UPDT: 1/07/20 APPROVED: 9/24/01																		
						COMMENT:EMAIL PREQ CHG FEE TYPE:1 \$50.00 BUDGET:069340 REV OBJ CD:943081																		

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					-ALL	U		GRD	E	U	N	E	P	&	N				C	M	S	N
					MAX	P	SYS	D	HYPH	M	R	E	A	S	W	T	P	R	G			I
ESS 345	MINERAL DEPOSITS The Environment of Fuel and Mineral Deposits	SUM/2020 - AUT/9999		3.0	.	.	.	.	.	Y	.	Y	Y	.	.	.	.	.	.	.	.	.
					LAST UPDT: 1/07/20 APPROVED: 9/24/01																	
					FEE TYPE:1 \$50.00 BUDGET:069340 REV OBJ CD:943081																	
ESS 400	FIELD GEOLOGY Field Geology	AUT/2009 - SPR/2020		12.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.
					LAST UPDT: 1/06/20 APPROVED: 3/01/89																	
					COMMENT:MOVE COLLEGE																	
ESS 400	FIELD GEOLOGY Field Geology	SUM/2020 - AUT/9999		12.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.
					LAST UPDT: 1/06/20 APPROVED: 3/01/89																	
ESS 401	FIELD GEOL WITH GIS Field Geology with GIS	SUM/2019 - SPR/2020		12.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.
					LAST UPDT: 1/06/20 APPROVED: 1/22/19																	
ESS 401	FIELD GEOL WITH GIS Field Geology with GIS	SUM/2020 - AUT/9999		12.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.
					LAST UPDT: 1/06/20 APPROVED: 1/22/19																	
ESS 402	INTL FIELD GEOLOGY International Field Geology	SPR/2018 - AUT/9999		3.0-12.0	12.0	.	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.
					LAST UPDT:11/21/17 APPROVED:12/01/99																	
ESS 403	GLOBAL TECTONICS Global Tectonics	SUM/2017 - AUT/9999		5.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.
					LAST UPDT: 3/22/17 APPROVED: 1/28/00																	
ESS 406	EARTH SCI FOR TEACH Earth Sciences for Middle and High School Science Teachers: Solid Earth	AUT/2009 - AUT/9999		3.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.
					LAST UPDT:12/14/17 APPROVED: 2/25/02																	
					COMMENT:MOVE COLLEGE																	
ESS 408	GREAT ISSUES Great Geological Issues	AUT/2009 - AUT/9999		3.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.
					LAST UPDT:10/17/17 APPROVED: 3/29/06																	
					COMMENT:MOVE COLLEGE																	
ESS 410	MAR GEOL AND GEOPHY Marine Geology and Geophysics	WIN/2018 - AUT/9999		4.0	.	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.	.	OCEAN 410	OCEAN 410
					LAST UPDT:12/13/17																	
					FEE TYPE:1 \$50.00 BUDGET:099670 REV OBJ CD:943081																	

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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			
ESS	411	CONTINUUM MECHANICS Geophysical Continuum Mechanics	SPR/2017 -	AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
LAST UPDT: 1/12/17																			
ESS	412	INTRO SEISMOLOGY Introduction to Seismology	SPR/2017 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	
LAST UPDT: 1/12/17																			
ESS	413	GEOPHYSICS EARTH Geophysics: The Earth	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	
LAST UPDT:12/14/17																			
COMMENT:MOVE COLLEGE																			
ESS	414	FLUIDS Geophysics: Fluids	SPR/2017 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	
LAST UPDT: 1/12/17																			
ESS	415	SPACE AND PLASMAS Space and Plasmas	SUM/2018 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	
LAST UPDT: 2/28/18																			
ESS	416	GEOPHYS ATMOS Geophysics: The Atmosphere	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	
LAST UPDT:12/14/17 APPROVED:10/12/72																			
COMMENT:MOVE COLLEGE																			
ESS	418	GEOSCIENCE COMM Geoscience Communication	SPR/2017 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
LAST UPDT:10/17/17 APPROVED: 6/15/10																			
ESS	420	INTRO GIS EARTH SCI Introduction to Geographic Information Systems for the Earth Sciences	AUT/2016 -	AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
LAST UPDT: 4/06/17 APPROVED:12/20/11																			
ESS	421	INTRO REMOT SENSING Introduction to Geological Remote Sensing	AUT/2009 -	AUT/9999	4.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	
LAST UPDT: 1/10/19 APPROVED: 6/01/81																			
COMMENT:MOVE COLLEGE FEE TYPE:1 \$20.00 BUDGET:068355 REV OBJ CD:943081																			
ESS	422	FIELD REMOTE SENSING Field Methods in Remote Sensing	WIN/2019 -	AUT/9999	4.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	
LAST UPDT:11/01/18 APPROVED: 9/20/99																			
FEE TYPE:1 \$20.00 BUDGET:069340 REV OBJ CD:943081																			



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				-ALL U	GRD		U	E	U	N	E	P	&	N			
ESS 437	MINERALOGY Mineralogy	SPR/2017 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT:10/17/18		APPROVED:10/26/99											
ESS 439	PETRG/PETRL IGN RCK Petrology of Igneous Rocks	AUT/2009 - SPR/2020	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 1/06/20		COMMENT:MOVE COLLEGE											
ESS 439	PETRG/PETRL IGN RCK Petrology of Igneous Rocks	SUM/2020 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 1/06/20													
ESS 440	PETRO/PETRL META RK Petrography and Petrology of Metamorphic Rocks	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT:12/14/17		COMMENT:MOVE COLLEGE											
ESS 441	PETRG/PETRL SED RCK Petrology and Petrography of Sedimentary Rocks	AUT/2009 - SPR/2020	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 1/06/20		APPROVED:12/01/81											
				COMMENT:MOVE COLLEGE													
ESS 441	PETRG/PETRL SED RCK Petrology and Petrography of Sedimentary Rocks	SUM/2020 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 1/06/20		APPROVED:12/01/81											
ESS 445	GEOL OF ORE DEPOSIT Geology of Ore Deposits	AUT/2009 - AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.
				LAST UPDT:12/14/17		APPROVED: 6/01/77											
				COMMENT:MOVE COLLEGE													
				FEE TYPE:1		\$50.00 BUDGET:069340		REV OBJ CD:943081									
ESS 447	ENGINEERING GEOLOGY Engineering Geology: Methods and Application	AUT/2013 - SPR/2020	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/07/20		APPROVED: 2/28/12											
				COMMENT:ADD FEE													
				FEE TYPE:1		\$40.00 BUDGET:068359		REV OBJ CD:943081									
ESS 447	ENGINEERING GEOLOGY Engineering Geology: Methods and Application	SUM/2020 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/07/20		APPROVED: 2/28/12											
				FEE TYPE:1 \$40.00 BUDGET:068359 REV OBJ CD:943081													



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				-ALL U	GRD		E	U N E	P		L I	E C Q T	P & N C M S N	A S W T P R G			
ESS 448	ANALYTIC PALEOBIO Analytical Paleobiology	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	BIOL 438	BIOL 438	.	
				LAST UPDT: 5/25/18 APPROVED: 6/03/14													
ESS 449	PALEOBIO FIELD RSRCH Paleobiology Field Methods and Research	WIN/2019 - AUT/9999	3.0-05.0	.	.	.	.	Y	.	Y	.	.	.	BIOL 475	BIOL 475	.	
				LAST UPDT: 8/07/18 APPROVED:12/21/10 FEE TYPE:1 \$120.00 BUDGET:069377 REV OBJ CD:943081													
ESS 450	PALEOBIOLOGY Paleobiology	AUT/2009 - AUT/9999	3.0	.	.	.	.	Y	.	Y	.	.	.			.	
				LAST UPDT: 8/06/12 APPROVED: 2/01/82 COMMENT:MOVE COLLEGE FEE TYPE:1 \$20.00 BUDGET:069340 REV OBJ CD:943081													
ESS 451	INVERT PALEONTOLOGY Invertebrate Paleontology	WIN/2013 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.	.	ESS 451	BIOL 451	.	
				LAST UPDT: 3/11/16 APPROVED: 2/25/02 COMMENT:CHG FEE FEE TYPE:1 \$62.00 BUDGET:069377 REV OBJ CD:943081													
ESS 452	VERTE PALEO Vertebrate Paleontology	WIN/2014 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.	.	BIOL 450	BIOL 450	.	
				LAST UPDT: 3/21/16 APPROVED:10/25/06 COMMENT:CHG FEE FEE TYPE:1 \$50.00 BUDGET:069377 REV OBJ CD:943081													
ESS 453	FOSSIL MAMMALS Fossil Mammals	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.			.	
				LAST UPDT: 8/12/09 APPROVED:12/01/85 COMMENT:MOVE COLLEGE													
ESS 454	HYDROGEOLOGY Hydrogeology	SUM/2017 - AUT/9999	4.0	.	.	.	.	.	.	Y	.	.	.			.	
				LAST UPDT: 3/22/17 APPROVED: 5/19/09													
ESS 455	STRATIGRAPHY Stratigraphy	AUT/2009 - AUT/9999	4.0	.	.	.	.	Y	.	Y	.	.	.			.	
				LAST UPDT: 1/10/19 COMMENT:MOVE COLLEGE FEE TYPE:1 \$15.00 BUDGET:068360 REV OBJ CD:943081													
ESS 456	SED GEO Sedimentary Geology and Depositional Environments	SPR/2018 - AUT/9999	4.0	.	.	.	.	Y	.	Y	.	.	.			.	
				LAST UPDT: 1/28/20 APPROVED: 1/01/82 FEE TYPE:1 \$80.00 BUDGET:069340 REV OBJ CD:943081													

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				-ALL U	GRD		U	P	GRD	E	U	N	E	P				&	N
ESS 457	ENV GEOCHEM Environmental Geochemistry	WIN/2017 - SPR/2020	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/06/20		APPROVED: 3/29/06													
ESS 457	ENV GEOCHEM Environmental Geochemistry	SUM/2020 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/06/20		APPROVED: 3/29/06													
ESS 458	ISOTOPE GEOL LITHOS ISOTOPE AND TRACE ELEMENT GEOLOGY: LITHOSPHERE	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/12/09		APPROVED: 6/01/90													
				COMMENT:UPDATE PREQ, COLLEGE															
ESS 459	ENV ISOTOPE GEOCHEM Environmental Isotope Geology	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/14/17		APPROVED:10/01/74													
				COMMENT:MOVE COLLEGE															
ESS 460	COSMOGENIC NUCLIDES Cosmogenic Nuclides in Geomorphology	AUT/2009 - SPR/2020	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/06/20		APPROVED: 3/29/04													
				COMMENT:MOVE COLLEGE															
ESS 460	COSMOGENIC NUCLIDES Cosmogenic Nuclides in Geomorphology	SUM/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/06/20		APPROVED: 3/29/04													
ESS 461	GEOLOGICAL TIME Geological Time	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/11/19		APPROVED: 3/27/95													
				COMMENT:MOVE COLLEGE															
ESS 462	VOLCANIC PROCESSES Volcanic Processes	SPR/2014 - SPR/2020	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/06/20		APPROVED: 6/01/99													
				COMMENT:EMAIL PREQ CHG															
ESS 462	VOLCANIC PROCESSES Volcanic Processes	SUM/2020 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/06/20		APPROVED: 6/01/99													
ESS 463	STRUCTURE TECTONICS Structure and Tectonics	SPR/2017 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/10/19		APPROVED: 2/25/98													

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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
ESS 464	GEODYNAMICS GEODYNAMICS	AUT/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.
	COMMENT:UPDATE PREQ																	
ESS 465	SEIS & EARTHQKE ENGR Seismology and Earthquake Engineering	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	CEE 431	CEE 431	.	
	COMMENT:UPDATE PREQ																	
ESS 466	APPLIED SEISMOLOGY APPLIED SEISMOLOGY	AUT/2009 - AUT/9999	2.0	.	.	.	.	.	.	.	Y	.	.	.			.	
	COMMENT:MOVE COLLEGE																	
ESS 467	SEISMIC EXPLORATION Seismic Exploration	WIN/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	ESS 467	OCEAN 412	412	.	
	COMMENT:UPDATE PREQ																	
ESS 471	INTRO TO SPACE PHYS Introduction to Space Physics	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.				.	
	COMMENT:MOVE COLLEGE																	
ESS 472	ROCKETS & INSTRUMNT Rockets and Instrumentation	WIN/2012 - AUT/9999	2.0-04.0	12.0	.	.	.	.	.	.	Y	.	.				.	
	COMMENT:CHG CREDITS, DESC																	
ESS 475	CLMT SCI RSRCH SMNR Current Research in Climate Science Seminar	AUT/2011 - AUT/9999	3.0	6.0	.	.	.	.	.	.	.	.	.	OCEAN 475	ATM S 475	475	.	
	COMMENT:UPDATE PREQ																	
ESS 480	ADV ISO GEOCHEM Advanced Methods in Isotope Geochemistry	WIN/2013 - SPR/2020	3.0	18.0	.	.	.	.	.	.	Y	.	.				.	
	COMMENT:UPDATE PREQ																	
ESS 480	ADV ISO GEOCHEM Advanced Methods in Isotope Geochemistry	SUM/2020 - AUT/9999	3.0	18.0	.	.	.	.	.	.	Y	.	.				.	
	COMMENT:UPDATE PREQ																	
ESS 482	ENV GEOCHEM LAB Environmental Geochemistry Laboratory	SPR/2017 - SPR/2020	4.0	.	.	.	.	.	.	.	Y	.	Y				.	
	COMMENT:UPDATE PREQ																	

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				-ALL U	GRD		U N E	P & A	N C M S N	E C Q T							
ESS 482	ENV GEOCHEM LAB Environmental Geochemistry Laboratory	SUM/2020 - AUT/9999	4.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 1/06/20 APPROVED: 6/07/16 FEE TYPE:1 \$50.00 BUDGET:068363 REV OBJ CD:943081													
ESS 488	SPACE LAW & POLICY Space Law and Policy	SUM/2019 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	.	JSIS B444 A A	490	.
				LAST UPDT: 6/21/19 APPROVED: 2/19/19 JSIS B 444													
ESS 489	HONORS SEMINAR Honors Seminar	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/12/09 APPROVED: 6/13/06													
				COMMENT:MOVE COLLEGE													
ESS 490	SPECIAL TOPICS Special Topics	AUT/2009 - AUT/9999	1.0-10.0	20.0	Y	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 8/12/09 APPROVED: 9/27/91													
				COMMENT:MOVE COLLEGE													
ESS 491	US GEOLOGY SEMINAR US Geology Seminar and Field Trip	AUT/2019 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/22/19 APPROVED: 3/19/19													
ESS 492	EDU EARTH SCI Education in the Earth Sciences	SUM/2019 - AUT/9999	2.0-03.0	12.0	.	CR/NC	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 3/18/19 APPROVED: 2/25/98													
ESS 495	NASA RSRCH SEMINAR NASA Science and Engineering Research Seminar	AUT/2009 - AUT/9999	1.0	4.0	.	CR/NC	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 8/12/09 APPROVED:10/29/90													
				COMMENT:MOVE COLLEGE													
ESS 498	INDEPENDENT STUDY Independent Study	SUM/2018 - AUT/9999	1.0-05.0	15.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/22/18													
ESS 499	UNDERGRAD RESEARCH Undergraduate Research	AUT/2009 - AUT/9999	0.0	15.0	Y	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/12/09 APPROVED: 2/01/87													
				COMMENT:MOVE COLLEGE													
ESS 501	GEOCHEMICAL SYSTEMS Geochemical Systems	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/12/09 APPROVED: 6/13/06													
				COMMENT:MOVE COLLEGE													

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				-ALL U MAX	GRD P	E SYS	E D HYPH	U N E M R E	P & A	N S W	C T P	M S N R G						
ESS 502	THE SOLID EARTH The Solid Earth	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09 APPROVED: 6/13/06														
ESS 503	SOLAR TERRESTR PHYS Introduction to Solar Terrestrial Physics	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09 APPROVED: 8/08/06														
ESS 504	EARTH SURFACE The Earth Surface	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 1/10/19 APPROVED: 6/13/06 FEE TYPE:1 \$50.00 BUDGET:068364 REV OBJ CD:943081														
ESS 505	THE CRYOSPHERE The Cryosphere	AUT/2011 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 6/22/11 APPROVED: 6/21/11														
ESS 508	GREAT GEOL ISSUES Great Geological Issues	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09 APPROVED: 3/29/06														
ESS 509	APPL FIELD MTHDS I Field Methods in Applied Geology I	WIN/2014 - SUM/2020	3.0	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
	COMMENT:ADD FEE			LAST UPDT: 3/19/20 APPROVED: 4/16/13 FEE TYPE:1 \$500.00 BUDGET:068365 REV OBJ CD:943081														
ESS 509	APPLIED GEO INVESTGN Applied Geology Investigations	AUT/2020 - AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
				LAST UPDT: 3/19/20 APPROVED: 4/16/13 FEE TYPE:1 \$500.00 BUDGET:068365 REV OBJ CD:943081														
ESS 510	APPL FIELD MTHDS II Field Methods in Applied Geology II	WIN/2014 - AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.
	COMMENT:ADD FEE			LAST UPDT: 1/10/19 APPROVED: 4/16/13 FEE TYPE:1 \$500.00 BUDGET:068366 REV OBJ CD:943081														
ESS 511	CONTINUUM MECHANICS Geophysical Continuum Mechanics	AUT/2010 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:CHG CREDITS			LAST UPDT: 3/15/10 APPROVED: 1/24/95														











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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			
ESS 553	ELEC BEAM ANALYSIS Electron Beam Microanalysis	AUT/2009 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 6/11/19 APPROVED:12/01/85														
ESS 554	PALEOCLIMAT PROXIES Paleoclimate Proxies	SPR/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	ATM S 554	ATM S 554	.
				LAST UPDT: 8/12/09 APPROVED:12/16/08 OCEAN 554														
ESS 555	PHYS CHEM EARTH Physics and Chemistry of the Earth's Interior	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT:10/17/18 APPROVED: 3/28/94														
ESS 556	PHYSICAL PETROLOGY PHYSICAL PETROLOGY	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09 APPROVED:12/01/89														
ESS 557	VERTE PALEO Vertebrate Paleontology	WIN/2014 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	BIOL 557	BIOL 557	.	
	COMMENT:CHG FEE			LAST UPDT:11/06/13 APPROVED: 5/19/09 FEE TYPE:1 \$50.00 BUDGET:069377 REV OBJ CD:943081														
ESS 558	GRAD PALEOBIO RES Introduction to Graduate Research in Paleobiology	AUT/2012 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	BIOL 555	BIOL 555	.	
				LAST UPDT: 8/23/12 APPROVED: 6/19/12														
ESS 559	CLIMATE MODELING Climate Modeling	SPR/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	ATM S 559	OCEAN 558	.	
	COMMENT:MOVE JT COLLEGE			LAST UPDT: 3/21/16 APPROVED: 6/20/07 ATM S 559														
ESS 560	COSMOGENIC NUCLIDES Cosmogenic Nuclides in Geomorphology	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09 APPROVED: 3/29/04														
ESS 562	OBSERVATNAL SEISMOL Observational Seismology	AUT/2009 - AUT/9999	1.0	18.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09														



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COLLEGE : D - Environment  
 DEPARTMENT: EARTH AND SPACE SCIENCES

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			
ESS 576	SPACE AND LAB PHYS Space and Laboratory Plasma Physics	AUT/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	AA 556	AA 556	.	
				LAST UPDT: 2/20/20													
ESS 577	ADV SPACE PLSM PHYS Advanced Space Plasma Physics	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT:12/14/17													
				COMMENT:MOVE COLLEGE													
ESS 578	KINETIC PLASMAS Kinetic Theory and Simulation of Space Plasmas	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT:10/17/18													
				COMMENT:MOVE COLLEGE													
ESS 579	COMP PLAS PHYS Computational Methods and Modeling in Geophysics I	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT:12/14/17 APPROVED: 5/24/93													
				COMMENT:MOVE COLLEGE													
ESS 580	ADV ISO GEOCHEM Advanced Methods in Isotope Geochemistry	WIN/2013 - SPR/2020	3.0	18.0	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 1/06/20 APPROVED:11/20/12													
ESS 580	ADV ISO GEOCHEM Advanced Methods in Isotope Geochemistry	SUM/2020 - AUT/9999	3.0	18.0	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 1/06/20 APPROVED:11/20/12													
ESS 581	PLANET ATMOS Planetary Atmospheres	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	ASTR 555	ASTR 555	.	
				LAST UPDT: 8/12/09 APPROVED: 9/01/77													
				COMMENT:MOVE COLLEGE													
ESS 582	ENV GEOCHEM LAB Environmental Geochemistry Laboratory	SPR/2017 - AUT/9999	4.0	.	.	.	.	Y	.	Y	.	.	.			.	
				LAST UPDT: 5/02/17 APPROVED: 6/07/16													
				FEE TYPE:1 \$50.00 BUDGET:069340 REV OBJ CD:943081													
ESS 583	SOLAR SYSTEM ORIGIN Origin of the Solar System	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	ASTR 557	ASTR 557	.	
				LAST UPDT: 8/12/09 APPROVED: 9/01/77													
				COMMENT:MOVE COLLEGE													

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COLLEGE : D - Environment  
 DEPARTMENT: EARTH AND SPACE SCIENCES

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							
ESS 584	SPACE LAW & POLICY Space Law and Policy	SUM/2019 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	JSIS B544 A A	590	.	
				LAST UPDT: 6/21/19		APPROVED: 2/19/19		JSIS B 544									
ESS 585	PNW CLIMATE IMPACTS Climate Impacts on the Pacific Northwest	WIN/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	ATM S 585	ATM S 585	.	
	COMMENT:CHG JT STATUS			LAST UPDT: 9/07/11		APPROVED: 1/30/03		ENVIR 585 SMEA 585									
ESS 586	CLIMATE SEMINAR Current Research in Climate Change	SPR/2010 - AUT/9999	2.0	20.0	.	CR/NC	.	.	.	.	.	.	.	ESS 586	ATM S 586	.	
	COMMENT:MOVE JT COLLEGE			LAST UPDT: 2/10/10		APPROVED: 2/25/02		OCEAN 586									
ESS 587	FUND CLIMATE CHANGE Fundamentals of Climate Change	AUT/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	ESS 587	ATM S 587	.	
	COMMENT:CHG TITLES, DESC			LAST UPDT: 3/21/13		APPROVED: 2/25/02		OCEAN 587									
ESS 588	CARBON AND CLIMATE The Global Carbon Cycle and Climate	SPR/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	OCEAN 588	ATM S 588	.	
	COMMENT:MOVE JT COLLEGE			LAST UPDT: 2/10/10		APPROVED: 2/25/02		OCEAN 588									
ESS 589	PALEOCLIMATOLOGY Paleoclimatology: Data, Modeling, and Theory	SPR/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	ESS 589	ATM S 589	.	
	COMMENT:MOVE JT COLLEGE			LAST UPDT: 2/10/10		APPROVED: 2/25/02		OCEAN 589									
ESS 590	SPECIAL TOPICS Special Topics	AUT/2009 - AUT/9999	2.0-10.0	20.0	Y	.	.	.	.	.	.	.	.			.	
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09		APPROVED: 9/27/91											
ESS 592	PROF PRACTICE SEM Professional Practice in Applied Geosciences	AUT/2013 - AUT/9999	1.0	3.0	.	.	.	.	Y	.	.	.	.			.	
	COMMENT:ADD FEE			LAST UPDT: 1/10/19		APPROVED: 8/21/12		FEE TYPE:1 \$40.00 BUDGET:068370 REV OBJ CD:943081									
ESS 593	CLIMATE SEMINAR Climate Science Seminar	SPR/2010 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	ATM S 593	ATM S 593	.	
	COMMENT:MOVE JT COLLEGE			LAST UPDT: 2/10/10		APPROVED:12/16/08		OCEAN 593									



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COLLEGE : D - Environment  
 DEPARTMENT: FRI HARBOR LABS

CURRIC NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D				S H F			V L E E W					RESPONS COURSE	JOINT COURSES	O M I T
				-ALL U	GRD	E	D	U N E	P	N	C	M	S	N				
FHL 101	MAR BIO WEEKEND Introduction to Marine Biology in the San Juan Islands	AUT/2018 - AUT/9999	1.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/15/18 APPROVED:11/15/16														
				FEE TYPE:1 \$195.00 BUDGET:099147 REV OBJ CD:943081														
FHL 250	MARINE BIOLOGY Marine Biology	SPR/2020 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/05/20 APPROVED: 1/21/20														
				FEE TYPE:1 \$100.00 BUDGET:068530 REV OBJ CD:943081														
FHL 305	BIOLOGY OF FISHES Biology of Fishes	AUT/2018 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:11/04/19 APPROVED: 4/15/14														
				FEE TYPE:1 \$110.00 BUDGET:068530 REV OBJ CD:943081														
FHL 333	SCIENCE WRITING Science Writing for Diverse Audiences	AUT/2018 - AUT/9999	3.0-05.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/18/18 APPROVED:10/17/17														
FHL 350	INTRO MAR RESEARCH Introduction to Research in Marine Biology	AUT/2020 - AUT/9999	6.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	.	.
				LAST UPDT: 3/19/20 APPROVED: 3/17/20														
FHL 375	MAR MAMM SALISH Marine Mammals of the Salish Sea	AUT/2018 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	Y	.	.	.	.	.
				LAST UPDT:11/04/19 APPROVED:11/15/16														
				FEE TYPE:1 \$132.00 BUDGET:068530 REV OBJ CD:943081														
FHL 430	MARINE ZOOLOGY Marine Zoology	AUT/2018 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	Y	.	.	.	FHL 430 BIOL 430	.
				LAST UPDT:11/04/19 APPROVED: 6/03/14														
				FEE TYPE:1 \$99.00 BUDGET:068530 REV OBJ CD:943081														
FHL 432	MARINE INVERT ZOOL Marine Invertebrate Zoology	AUT/2018 - AUT/9999	9.0	.	.	.	.	Y	.	.	.	.	Y	.	.	.	FHL 432 BIOL 432	.
				LAST UPDT:11/04/19 APPROVED: 2/20/15														
				FEE TYPE:1 \$165.00 BUDGET:098456 REV OBJ CD:943081														
FHL 435	RES APPRENTICESHIP Research Apprenticeship in Marine Science	AUT/2018 - AUT/9999	15.0	.	.	.	.	.	.	.	.	.	Y	.	.	.	FHL 435 BIOL 435	.
				LAST UPDT: 4/25/18 APPROVED: 1/20/15														
																	MARBIO 435	

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COLLEGE : D - Environment  
 DEPARTMENT: FRI HARBOR LABS

CURRIC NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D				S H F				V L E E W				RESPONS COURSE	JOINT COURSES	O M I T
				-ALL	U	GRD	E	U	N	E	P	N	C	M	S			
FHL 440	MARINE BOTANY Marine Botany	AUT/2018 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	FHL 440	BIOL 445	.	
LAST UPDT:11/04/19 APPROVED: 6/03/14 FEE TYPE:1 \$99.00 BUDGET:068530 REV OBJ CD:943081																		
FHL 446	MAR BOT DIV ECOL Marine Botany: Diversity and Ecology	AUT/2018 - AUT/9999	9.0	.	.	.	.	Y	.	.	.	.	.	.			.	
LAST UPDT:11/04/19 APPROVED: 1/20/15 FEE TYPE:1 \$165.00 BUDGET:098456 REV OBJ CD:943081																		
FHL 450	SHORE ECOL RES EXP Nearshore Ecology Research Experience	AUT/2018 - AUT/9999	6.0	.	.	.	.	Y	.	.	.	.	.	FHL 450	MARBIO450	.		
LAST UPDT: 4/25/18 APPROVED: 4/15/14 FEE TYPE:1 \$90.00 BUDGET:029357 REV OBJ CD:943081																		
FHL 460	AQUA ANIMAL RES EXP Aquatic Animals Research Experience	AUT/2018 - AUT/9999	6.0	.	.	.	.	Y	.	.	.	.	.	FHL 460	MARBIO460	.		
LAST UPDT: 4/25/18 APPROVED: 4/15/14 FEE TYPE:1 \$90.00 BUDGET:029357 REV OBJ CD:943081																		
FHL 470	RES IN MARINE BIOL Research in Marine Biology	AUT/2018 - AUT/9999	1.0-15.0	15.0	.	.	.	Y	.	.	.	.	.	FHL 470	MARBIO470	.		
LAST UPDT:11/04/19 APPROVED: 4/15/14 FEE TYPE:1 \$110.00 BUDGET:068530 REV OBJ CD:943081																		
FHL 471	ANAT PHYSIOL MARINE Comparative Anatomy and Physiology of Marine Organisms	AUT/2019 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	FHL 471	BIOL 471	.		
LAST UPDT:11/04/19 APPROVED: 3/19/19 FEE TYPE:1 \$132.00 BUDGET:068530 REV OBJ CD:943081																		
FHL 490	MARINE SCI SEMINAR Marine Sciences Seminar	AUT/2018 - AUT/9999	1.0	3.0	.	.	.	.	.	.	.	.	.			.		
LAST UPDT: 9/18/18 APPROVED: 4/15/14																		
FHL 492	MAR BIRD MAMM Ecology and Conservation of Marine Birds and Mammals	AUT/2018 - AUT/9999	9.0-15.0	15.0	.	.	.	Y	.	.	.	.	.	FHL 492	MARBIO492	.		
LAST UPDT:11/04/19 APPROVED:12/16/14 FEE TYPE:1 \$165.00 BUDGET:098456 REV OBJ CD:943081 FISH 492																		
FHL 495	SPEC TOPICS NAT SCI Special Topics in Natural Science	AUT/2020 - AUT/9999	3.0-05.0	10.0	.	.	.	.	.	.	.	.	.			.		
LAST UPDT: 4/10/20 APPROVED: 2/18/20																		



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 DEPARTMENT: FRI HARBOR LABS

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			
FHL 528	ADV TPCS FISH BIOL Advanced Topics in Fish Biology	AUT/2018 - AUT/9999	9.0	27.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 9/18/18 APPROVED: 2/17/15																		
FHL 536	COMP INVERT EMBRYOL Comparative Invertebrate Embryology	AUT/2018 - AUT/9999	9.0	.	.	.	.	.	Y	.	.	.	.	.	FHL 536 BIOL 536	.	.	
LAST UPDT:11/12/19 APPROVED: 1/20/15 FEE TYPE:1 \$165.00 BUDGET:098456 REV OBJ CD:943081																		
FHL 548	ADV TPCS EVOL DEVEL Advanced Topics in Evolution and Development	AUT/2018 - AUT/9999	9.0	27.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
LAST UPDT: 9/18/18 APPROVED: 2/17/15																		
FHL 568	ADV TPC ECOL BIOMCH Advanced Topics in Ecology and Biomechanics	AUT/2018 - AUT/9999	9.0	27.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
LAST UPDT: 9/18/18 APPROVED: 2/17/15																		
FHL 578	SPEC TOP SCI COMMUN Special Topics in Science Communication	AUT/2018 - AUT/9999	9.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	
LAST UPDT: 9/18/18 APPROVED:10/18/16																		
FHL 585	ADV TPC NBIO&PHYSIO Advanced Topics in Neurobiology and Physiology	AUT/2018 - AUT/9999	9.0	27.0	.	.	.	.	.	.	.	.	.	.	.	.	.	
LAST UPDT: 9/18/18 APPROVED: 2/17/15																		

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COLLEGE : D - Environment  
 DEPARTMENT: MARINE BIOLOGY

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				
MARBIO 270	AQUATIC ECOPHYSLGY Aquatic Ecophysiology	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	FISH 270	OCEAN 270	.	
				LAST UPDT: 4/25/18		APPROVED: 12/16/14								FISH 270			
MARBIO 300	EXPLORE OPPS MARINE Exploring Opportunities in Marine Science	AUT/2018 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	OCEAN 300	FISH 300	.	
				LAST UPDT: 4/25/18		APPROVED: 2/18/14								OCEAN 300			
MARBIO 305	MARINE SCI WRIT Scientific Writing in Marine Biology	AUT/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 4/25/18		APPROVED: 6/06/17											
MARBIO 370	MARINE EVOLN BIOL Marine Evolutionary Biology	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	FISH 370	OCEAN 370	.	
				LAST UPDT: 4/25/18		APPROVED: 12/16/14								FISH 370			
MARBIO 433	MARINE ECOLOGY Marine Ecology	WIN/2021 - WIN/2021	5.0	.	.	.	.	Y	.	Y	.	.	.	BIOL 433	BIOL 433	.	
				LAST UPDT: 3/09/20		APPROVED: 4/28/03		FEE TYPE:1		\$91.00		BUDGET:069377		REV OBJ CD:943081			
MARBIO 433	MARINE ECOLOGY Marine Ecology	SPR/2021 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.	.	BIOL 433	BIOL 433	.	
				LAST UPDT: 3/09/20		APPROVED: 4/28/03		FEE TYPE:1		\$91.00		BUDGET:069377		REV OBJ CD:943081			
MARBIO 435	RES APPRENTICESHIP Research Apprenticeship in Marine Science	AUT/2018 - AUT/9999	15.0	.	.	.	.	.	.	Y	.	.	.	FHL 435	BIOL 435	.	
				LAST UPDT: 4/25/18		APPROVED: 1/20/15								FHL 435			
MARBIO 450	SHORE ECOL RES EXP Nearshore Ecology Research Experience	AUT/2018 - AUT/9999	6.0	.	.	.	.	Y	.	Y	.	.	.	FHL 450	FHL 450	.	
				LAST UPDT: 4/25/18		APPROVED: 4/15/14		FEE TYPE:1		\$90.00		BUDGET:029357		REV OBJ CD:943081			
MARBIO 460	AQUA ANIMAL RES EXP Aquatic Animals Research Experience	AUT/2018 - AUT/9999	6.0	.	.	.	.	Y	.	Y	.	.	.	FHL 460	FHL 460	.	
				LAST UPDT: 4/25/18		APPROVED: 4/15/14		FEE TYPE:1		\$90.00		BUDGET:029357		REV OBJ CD:943081			
MARBIO 470	RES IN MARINE BIOL Research in Marine Biology	AUT/2018 - AUT/9999	1.0-15.0	15.0	.	.	.	Y	.	Y	.	.	.	FHL 470	FHL 470	.	
				LAST UPDT: 11/04/19		APPROVED: 4/15/14		FEE TYPE:1		\$110.00		BUDGET:068530		REV OBJ CD:943081			

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COLLEGE : D - Environment  
DEPARTMENT: MARINE BIOLOGY

CURRIC NUM	COURSE TITLE	EFFECTIVE	QUARTERS	CREDITS	OVER D -ALL U	D GRD	S H F U N E	L I P & N	E E W L R C M S N	RESPONS COURSE	JOINT COURSES	O M I T		
													MAX	P
MARBIO 479	MARINE BIO RESEARCH Research in Marine Biology	AUT/2018	- AUT/9999	1.0-15.0	15.0	.	.	.	. . . Y	.	.	FISH 479 BIOL 479		
					LAST UPDT: 4/25/18 APPROVED: 10/21/08								OCEAN 479	
					FEE TYPE:1 \$90.00 BUDGET:029357 REV OBJ CD:943081								FISH 479	
MARBIO 488	MARBIO IN FIELD Marine Biology in the Field	AUT/2018	- AUT/9999	4.0-06.0	.	.	.	.	. . . Y	.	.	.		
					LAST UPDT:12/13/18 APPROVED: 2/21/17									
					FEE TYPE:1 \$100.00 BUDGET:068530 REV OBJ CD:943081									
MARBIO 492	MAR BIRD MAMM Ecology and Conservation of Marine Birds and Mammals	AUT/2018	- AUT/9999	9.0-15.0	15.0	.	.	.	. . . Y . . . Y	.	.	FHL 492 FISH 492		
					LAST UPDT:11/04/19 APPROVED:12/16/14								FHL 492	
					FEE TYPE:1 \$165.00 BUDGET:098456 REV OBJ CD:943081									



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COLLEGE : D - Environment  
 DEPARTMENT: OCEANOGRAPHY

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			
OCEAN 220	INTRO FIELD OCEAN Introduction to Field Oceanography	SPR/2019 - AUT/9999	3.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.
				LAST UPDT:10/17/18 APPROVED:10/05/73 FEE TYPE:1 \$50.00 BUDGET:099670 REV OBJ CD:943081													
OCEAN 230	RIVERS AND BEACHES Rivers and Beaches	SPR/2010 - AUT/9999	3.0-05.0	.	.	.	.	Y	.	.	Y	.	.	ESS	230	ESS	230
				LAST UPDT: 1/10/19 APPROVED: 4/28/03 FEE TYPE:1 \$50.00 BUDGET:068349 REV OBJ CD:943081 COMMENT:MOVE COLLEGE													
OCEAN 235	ARCTIC CHANGE Arctic Change	SPR/2014 - AUT/9999	2.0-03.0	.	.	.	.	.	.	Y	Y	.	.	.	.	.	.
				LAST UPDT: 2/19/15 APPROVED: 2/15/11 COMMENT:WAS OCEAN 122, CHG CREDITS													
OCEAN 240	SPEC TOPICS OCEAN Special Topics in Oceanography	WIN/2017 - AUT/9999	1.0-05.0	9.0	.	.	.	Y	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 8/25/16 APPROVED: 9/17/96 FEE TYPE:1 \$50.00 BUDGET:069670 REV OBJ CD:943081													
OCEAN 250	MARINE BIOLOGY Marine Biology	SPR/2010 - AUT/9999	3.0-05.0	5.0	.	.	.	Y	.	Y	Y	.	.	FISH	250	BIOL	250
				LAST UPDT: 7/23/15 APPROVED: 2/21/01 FEE TYPE:1 \$75.00 BUDGET:069602 REV OBJ CD:943081 COMMENT:MOVE COLLEGE													
OCEAN 260	PUGET ECOSYSTEM THE PUGET SOUND ECOSYSTEM	SPR/2010 - AUT/9999	3.0-05.0	5.0	.	.	.	Y	.	Y	Y	.	.	OCEAN	260	ENVIR	260
				LAST UPDT: 8/06/12 APPROVED:11/21/05 FEE TYPE:1 \$50.00 BUDGET:750364 REV OBJ CD:943081 COMMENT:MOVE COLLEGE													
OCEAN 261	INTRO OCEAN TECH Introduction to Ocean Technology	SPR/2015 - AUT/9999	2.0	.	.	.	.	.	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 7/11/19 APPROVED: 2/17/15													
OCEAN 270	AQUATIC ECOPHYSLGY Aquatic Ecophysiology	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	FISH	270	MARBIO270	.
				LAST UPDT: 4/25/18 APPROVED:12/16/14 COMMENT:MOVE COLLEGE													
OCEAN 285	FLUID MECH & WAVES Physics Across Oceanography: Fluid Mechanics and Waves	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 8/07/17 APPROVED:11/18/14													

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COLLEGE : D - Environment  
 DEPARTMENT: OCEANOGRAPHY

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			
OCEAN 286	FLUID MECH&WAVES LAB Physics Across Oceanography: Fluid Mechanics and Waves Laboratory	WIN/2016 - AUT/9999	2.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 8/07/17 APPROVED:11/17/15													
				FEE TYPE:1 \$20.00 BUDGET:099670 REV OBJ CD:943081													
OCEAN 295	MARINE ORG CHEM Chemistry of Marine Organic Carbon	SPR/2015 - AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.
				LAST UPDT:11/18/15 APPROVED: 6/02/15													
				FEE TYPE:1 \$50.00 BUDGET:099670 REV OBJ CD:943081													
OCEAN 300	EXPLORE OPPS MARINE Exploring Opportunities in Marine Science	AUT/2018 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	OCEAN 300 FISH 300	.
				LAST UPDT: 4/25/18 APPROVED: 2/18/14													
				MARBIO 300													
OCEAN 310	MAR GEO & GEOCHEM Marine Geology and Geochemistry	AUT/2017 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 4/04/17 APPROVED: 3/21/17													
OCEAN 320	COASTAL OCEAN Coastal Oceanography	WIN/2017 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT:10/25/16 APPROVED: 1/19/16													
OCEAN 330	MARINE BIOGEOCHEM Marine Biogeochemical Cycles	WIN/2016 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT:11/20/15 APPROVED:11/17/15													
OCEAN 340	INTERDISC TPC OCEAN Interdisciplinary Topics in Oceanography	WIN/2017 - AUT/9999	1.0-05.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT:10/25/16 APPROVED:10/18/16													
OCEAN 350	STR & PRCS MAR ORG STRUCTURE AND PROCOESS IN MARINE ORGANISMS	SPR/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT:10/07/13 APPROVED: 1/31/05													
				COMMENT:MOVE COLLEGE													
OCEAN 351	FND OCEAN SENSORS Foundations of Ocean Sensors	WIN/2016 - AUT/9999	3.0	.	.	.	.	Y	.	.	Y	.	.	Y	.	.	.
				LAST UPDT: 6/09/16													
				FEE TYPE:1 \$75.00 BUDGET:099670 REV OBJ CD:943081													
OCEAN 355	BIG BANG-BLU PLANET From Big Bang to the Blue Planet	SPR/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 2/10/10 APPROVED: 9/16/08													
				COMMENT:MOVE COLLEGE													

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COLLEGE : D - Environment  
 DEPARTMENT: OCEANOGRAPHY

CURRIC NUM	COURSE TITLE	EFFECTIVE	QUARTERS	CREDITS	OVER D D S H F V L E E W										RESPONS	JOINT	I				
					-ALL	U	GRD	E	U	N	E	P	&	N				C	M	S	N
OCEAN 361	OC TECH I SENSORS Ocean Technology I: Introduction to Underwater Observational Sensor Design and Build	SPR/2015 - AUT/9999	2.0		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 2/18/15 APPROVED: 2/17/15																					
OCEAN 370	MARINE EVOLN BIOL Marine Evolutionary Biology	AUT/2018 - AUT/9999	5.0		.	.	.	.	.	.	.	.	.	.	.	.	.	FISH 370	MARBIO370	.	
LAST UPDT: 4/25/18 APPROVED:12/16/14 FISH 370																					
OCEAN 401	SPEC TOP CHEM OCEAN Special Topics in Chemical Oceanography	WIN/2020 - AUT/9999	3.0		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
LAST UPDT:11/05/19 APPROVED: 3/28/01																					
OCEAN 409	MARINE POLLUTION Marine Pollution	AUT/2017 - AUT/9999	3.0		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
LAST UPDT: 6/14/17 APPROVED:11/18/14																					
OCEAN 410	MAR GEOL AND GEOPHY Marine Geology and Geophysics	WIN/2018 - AUT/9999	4.0		.	.	.	.	.	.	.	.	.	.	.	.	.	OCEAN 410	ESS	410	.
LAST UPDT:12/13/17 FEE TYPE:1 \$50.00 BUDGET:099670 REV OBJ CD:943081																					
OCEAN 411	SPEC TOP GEO/GPHYS Special Topics in Marine Geology and Geophysics	SUM/2011 - AUT/9999	3.0		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
LAST UPDT: 3/29/11 APPROVED: 3/28/01																					
COMMENT:UWCR COMMITTE REMOVE QSR																					
OCEAN 412	SEISMIC EXPLORATION Seismic Exploration	WIN/2018 - AUT/9999	3.0		.	.	.	.	.	.	.	.	.	.	.	.	.	ESS 467	ESS	467	.
LAST UPDT: 9/25/17 APPROVED:12/01/89																					
OCEAN 420	PHYS PROC OCEAN Physical Processes in the Ocean	WIN/2014 - AUT/9999	4.0		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
LAST UPDT: 7/18/16 APPROVED: 2/21/01																					
COMMENT:CHG PREQ																					
OCEAN 421	SPEC TOP PHYS OCEAN Special Topics in Physical Oceanography	SPR/2010 - AUT/9999	3.0		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
LAST UPDT: 2/10/10 APPROVED: 3/28/01																					
COMMENT:MOVE COLLEGE																					
OCEAN 422	OCEAN DYNAMICS OCEAN DYNAMICS	SPR/2010 - AUT/9999	3.0		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
LAST UPDT: 2/10/10 APPROVED: 3/28/01																					
COMMENT:MOVE COLLEGE																					

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 DEPARTMENT: OCEANOGRAPHY

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			
OCEAN 423	OCEAN CIRC & CLIMATE Ocean Circulation and Climate	AUT/2016 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 7/19/16 APPROVED: 3/28/01													
OCEAN 430	BIO OCEAN Biological Oceanography	AUT/2011 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 3/14/11													
					COMMENT:CHG DESC													
OCEAN 431	SPEC TOP BIOL OCEAN Special Topics in Biological Oceanography	AUT/2018 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 5/29/18 APPROVED: 3/28/01													
OCEAN 443	SNR THESIS PROPOSAL Undergraduate Thesis: Proposal	AUT/2017 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT:10/04/17 APPROVED: 2/21/01													
OCEAN 444	SNR THESIS RESEARCH Undergraduate Thesis: Research	WIN/2020 -	SPR/2020	2.0	.	.	12	.	.	Y	.	.	.	.	.	.	.	.
					LAST UPDT:11/22/19 APPROVED:10/16/12													
					FEE TYPE:1 \$400.00 BUDGET:099670 REV OBJ CD:943081													
OCEAN 444	SNR THESIS RESEARCH Undergraduate Thesis: Research	SUM/2020 -	AUT/9999	2.0	.	.	.	.	.	Y	.	.	.	.	.	.	.	.
					LAST UPDT:11/22/19 APPROVED:10/16/12													
					FEE TYPE:1 \$400.00 BUDGET:099670 REV OBJ CD:943081													
OCEAN 445	SNR THESIS:ANALYSIS Undergraduate Thesis: Data Analysis and Writing	WIN/2020 -	SPR/2020	3.0	.	.	22	.	.	Y	.	.	Y	.	.	.	.	.
					LAST UPDT:11/22/19													
					FEE TYPE:1 \$500.00 BUDGET:099670 REV OBJ CD:943081													
OCEAN 445	SNR THESIS:ANALYSIS Undergraduate Thesis: Data Analysis and Writing	SUM/2020 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	Y	.	.	.	.	.
					LAST UPDT:11/22/19													
					FEE TYPE:1 \$500.00 BUDGET:099670 REV OBJ CD:943081													
OCEAN 450	CLIMATIC EXTREMES Climatic Extremes	SPR/2010 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 2/10/10 APPROVED: 4/25/01													
					COMMENT:MOVE COLLEGE													



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 DEPARTMENT: OCEANOGRAPHY

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	P	&	N				C
OCEAN 451	FLUID DYAMICS LAB FLUID DYNAMICS LABORATORY	SPR/2010 - AUT/9999		4.0	.	.	.	.	.	.	Y	.	.	.	.			.		
					LAST UPDT: 2/10/10		APPROVED: 3/28/01													
COMMENT:MOVE COLLEGE																				
OCEAN 452	MARINE GIS Marine Geospatial Information Science	AUT/2017 - AUT/9999		3.0	.	.	.	.	.	.	Y	.	.	.		OCEAN 452 FISH	452	.		
					LAST UPDT: 4/25/17		APPROVED: 3/28/01													
OCEAN 453	GEOSP TL P TTRN ANLYS Geospatial Pattern Analysis and Geostatistics	SPR/2010 - AUT/9999		3.0	.	.	.	.	.	.	Y	.	.	.		OCEAN 453 FISH	453	.		
					LAST UPDT: 7/18/16		APPROVED: 3/28/01													
COMMENT:RECREATED OCEAN 452 WITH CHGS																				
OCEAN 454	HYDROTHERMAL Hydrothermal Systems: An Interdisciplinary View	SPR/2010 - AUT/9999		3.0	.	.	.	.	.	.	Y	.	.	.			.			
					LAST UPDT: 9/16/10		APPROVED: 1/25/06													
COMMENT:MOVE COLLEGE																				
OCEAN 461	ADV OCN TECH MGMNT Advanced Ocean Technology - Project Design and Management	SPR/2015 - AUT/9999		2.0	.	.	.	.	.	.	Y	.	.	.			.			
					LAST UPDT: 2/18/15		APPROVED: 2/17/15													
OCEAN 475	CLMT SCI RSRCH SMNR Current Research in Climate Science Seminar	AUT/2011 - AUT/9999		3.0	6.0	.	.	.	.	.	.	.	.	.		OCEAN 475 ATM S	475	.		
					LAST UPDT: 1/26/11		APPROVED: 1/18/11													
					ESS 475															
OCEAN 477	MARINE BIOL SEMINAR Seminar in Marine Biology	WIN/2011 - AUT/9999		3.0	.	.	.	.	.	.	Y	.	.	.		OCEAN 477 BIOL	477	.		
					LAST UPDT: 2/14/11		APPROVED: 9/22/10													
					FISH 477															
OCEAN 479	MARINE BIO RESEARCH Research in Marine Biology	AUT/2018 - AUT/9999		1.0-15.0	15.0	.	.	.	.	.	Y	.	.	.		FISH 479 BIOL	479	.		
					LAST UPDT: 4/25/18		APPROVED:10/21/08													
					FEE TYPE:1 \$90.00 BUDGET:029357 REV OBJ CD:943081															
					MARBIO 479 FISH 479															
OCEAN 480	OCEAN CULTURE Global Ocean - Human Culture	WIN/2018 - AUT/9999		3.0	.	.	.	.	.	.	Y	Y	.	.			.			
					LAST UPDT:12/06/17		APPROVED:11/14/17													
OCEAN 481	PUGET SOUND OCEANOGRAPHY Puget Sound and Estuarine Oceanography	AUT/2011 - AUT/9999		3.0	.	.	.	.	.	.	Y	.	.	.			.			
					LAST UPDT: 4/20/11		APPROVED: 4/19/11													

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COLLEGE : D - Environment  
 DEPARTMENT: OCEANOGRAPHY

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		L I	P & N	C M			
OCEAN 482	THE CHANGING ARCTIC The Changing Arctic Ocean	WIN/2013 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 2/23/16 APPROVED:10/16/12												
OCEAN 492	APPRENTICE: OCEAN Friday Harbor Apprenticeship	SPR/2010 - AUT/9999	9.0-15.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.
				LAST UPDT:11/04/19 APPROVED: 8/23/07 FEE TYPE:1 \$192.00 BUDGET:099147 REV OBJ CD:943081												
OCEAN 494	FIELD EXP: OCEAN Field Experiences in Marine Science	SPR/2010 - AUT/9999	1.0-15.0	30.0	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 2/10/10 APPROVED: 8/23/07												
				COMMENT:MOVE COLLEGE												
OCEAN 496	STUDY ABROAD: OCEAN Study Abroad: Oceanography	SPR/2010 - AUT/9999	1.0-15.0	30.0	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 2/10/10 APPROVED: 8/23/07												
				COMMENT:MOVE COLLEGE												
OCEAN 497	ADV SPEC TOP: OCEAN Advanced Special Topics in Oceanography	SPR/2010 - AUT/9999	1.0-15.0	15.0	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/10/10 APPROVED: 8/23/07												
				COMMENT:MOVE COLLEGE												
OCEAN 499	UNDERGRAD RESEARCH Undergraduate Research	AUT/2010 - AUT/9999	1.0-15.0	24.0	Y	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/02/10												
				COMMENT:CHG DESC												
OCEAN 500	CURRENT PROBS OCEAN Current Problems in Oceanography	SPR/2010 - AUT/9999	1.0	10.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 5/02/13												
				COMMENT:MOVE COLLEGE, 5/13 RETRO MAX												
OCEAN 501	ESTUARINE CIRC/MIX ESTUARINE CIRCULATION AND MIXING	SPR/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/10/10												
				COMMENT:MOVE COLLEGE												
OCEAN 502	MARINE GIS Marine Geospatial Information Science	AUT/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	OCEAN 502 FISH 502	.	.
				LAST UPDT: 4/25/17 APPROVED:10/20/09												

















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COLLEGE : D - Environment  
 DEPARTMENT: QUANT SCIENCE

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			
Q SCI 190	QUANT ANLYS ENV SCI Quantitative Analysis for Environmental Science	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	Y	.			.
				LAST UPDT: 9/18/18		APPROVED: 3/15/11											
Q SCI 210	INTRO ENVIR MODEL Introduction to Environmental Modeling	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	Y	.	Q SCI 210	ENVIR 210	.
				LAST UPDT: 9/18/18		APPROVED: 12/30/86											
Q SCI 291	ANLYS FOR BIOL 1 Analysis for Biologists I	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	Y	.			.
				LAST UPDT: 9/18/18		APPROVED: 7/10/69											
Q SCI 292	ANLYS FOR BIOL 2 Analysis for Biologists II	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	Y	.			.
				LAST UPDT: 9/18/18		APPROVED: 7/10/69											
Q SCI 381	INTRO PROBABIL&STAT Introduction to Probability and Statistics	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	Y	.			.
				LAST UPDT: 9/18/18		APPROVED: 3/09/73											
Q SCI 391	INTRO MATRICES&APPL INTRODUCTION TO MATRICES AND THEIR APPLICATIONS	AUT/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.			.
				LAST UPDT: 9/18/18													
Q SCI 392	TECH APL MATH-BIO I TECHNIQUES OF APPLIED MATHEMATICS IN BIOLOGY I	AUT/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.			.
				LAST UPDT: 9/18/18		APPROVED: 3/02/72											
Q SCI 393	TECH APL MATH-BIO 2 TECHNIQUES OF APPLIED MATHEMATICS IN BIOL I AND II	AUT/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.			.
				LAST UPDT: 9/18/18		APPROVED: 8/31/72											
Q SCI 403	RESAMPLING INFER Introduction to Resampling Inference	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	STAT 403	STAT 403	.
				LAST UPDT: 9/18/18		APPROVED: 9/27/91											
Q SCI 451	ANALYT METH WILDLIFE Analytical Methods in Wildlife Science	SUM/2019 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	ESRM 451	ESRM 451	.
				LAST UPDT: 8/20/19		APPROVED: 9/19/17											
Q SCI 454	ECOLOGICAL MODELING Ecological Modeling	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	FISH 454	FISH 454	.
				LAST UPDT: 9/18/18		APPROVED: 1/31/05											

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				-ALL U	GRD		U N E	P	N	C	M	S	N	A				S
Q SCI 458	ADV ECOL MODEL ADVANCED ECOLOGICAL MODELING	SPR/2020 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	FISH 458	FISH 458	.
				LAST UPDT: 3/03/20		APPROVED: 5/29/75												
Q SCI 480	SAMPLING THEORY Sampling Theory for Biologists	AUT/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	Q SCI 480	STAT 480	.
				LAST UPDT: 9/18/18		APPROVED: 8/31/72												
Q SCI 482	STAT INFR IN ECOL Statistical Inference in Applied Research I: Hypothesis Testing and Estimation for Ecologists and Resource Managers	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/18/18		APPROVED: 6/28/79												
Q SCI 483	STAT REGRES IN ECOL Statistical Inference in Applied Research II: Regression Analysis for Ecologists and Resource Managers	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/18/18		APPROVED: 1/31/84												
Q SCI 486	EXPERIMENTAL DESIGN Experimental Design	AUT/2018 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	Q SCI 486	STAT 486	.
				LAST UPDT: 9/18/18		APPROVED: 6/28/79												
Q SCI 497	SP TOPICS IN Q SCI Special Topics in Quantitative Science	AUT/2018 - AUT/9999	1.0-15.0	15.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/18/18		APPROVED: 2/24/06												
Q SCI 498	INTERNSHIP Internship	AUT/2018 - AUT/9999	1.0-15.0	15.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/18/18		APPROVED: 6/13/06												
Q SCI 499	RESEARCH EXPERIENCE Research Experience	AUT/2018 - AUT/9999	1.0-15.0	15.0	Y	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/18/18		APPROVED: 6/28/73												



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COLLEGE : D - Environment  
 DEPARTMENT: SCIENCE FOR TEACHERS

CURRIC NUM	COURSE TITLE	EFFECTIVE	QUARTERS	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			
SCI T 501	OBS SCI EXPT DESIGN Observational Science and Experimental Design for Teachers	AUT/2014 -	AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 4/18/14 APPROVED: 3/18/14													
SCI T 502	DATA ANALYSIS VIS Data Analysis and Visualization for Teachers	WIN/2015 -	AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 4/18/14 APPROVED: 3/18/14													
SCI T 503	SCI COMM FOR TEACH Science Communication for Teachers	SPR/2015 -	AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 4/18/14 APPROVED: 3/18/14													

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COLLEGE : D - Environment  
 DEPARTMENT: ENVIR & FOREST SCIENCES

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							
BSE 101	BIOMASS & BIOFUEL Biomass, Biofuels and Bioproducts	AUT/2017 - SUM/2020	5.0	.	.	.	.	.	.	Y	Y	.	.	.	.	.	.
				LAST UPDT: 7/19/19		APPROVED: 6/06/17											
BSE 101	BIOMASS & BIOFUEL Biomass, Biofuels and Bioproducts	AUT/2020 - AUT/9999	5.0	.	.	.	.	.	.	Y	Y	.	.	.	.	.	.
				LAST UPDT: 3/19/20		APPROVED: 6/06/17											
BSE 104	PROD & ENRGY RENEWBL Products and Energy from Renewable Resources	AUT/2010 - AUT/9999	5.0	.	.	.	.	.	.	Y	Y	.	.	.	.	.	.
				LAST UPDT: 7/25/14		APPROVED: 8/23/00											
				COMMENT:WAS PSE 104													
BSE 150	BIORESOURCE SEMINAR Bioresource Science and Engineering Seminar	AUT/2010 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/22/10		APPROVED:10/24/96											
				COMMENT:WAS PSE 450, CHG TL,CRDT, DESC													
BSE 190	SPECIAL TOPICS Special Topics	AUT/2016 - AUT/9999	1.0-05.0	10.0	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 5/12/16		APPROVED:12/21/10											
BSE 201	PULP PAPER &BIOPROD Introduction to Pulp, Paper, and Bioproducts	AUT/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 6/16/10		APPROVED: 3/29/93											
				COMMENT:WAS PSE 201													
BSE 202	PULP & PAPER FIELD Pulp and Paper Lab and Field Studies	WIN/2014 - AUT/9999	1.0	.	CR/NC	.	.	Y	.	.	Y	.	.	.	.	.	.
				LAST UPDT:11/03/17		APPROVED: 2/26/03											
				COMMENT:CHG FEE FEE TYPE:1 \$50.00 BUDGET:069393 REV OBJ CD:943081													
BSE 211	CREATIVITY & SOCIETY Creativity and Society	WIN/2013 - AUT/9999	5.0	.	.	.	.	.	.	Y	Y	.	.	.	.	.	.
				LAST UPDT: 1/16/13		APPROVED:12/15/05											
				COMMENT:PERM DL													
BSE 231	BSE TECH COMM Technical Communication for Process Engineers	SPR/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 8/16/18		APPROVED: 1/17/17											
BSE 248	PAPER PROPERTIES Paper Properties	AUT/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 5/07/12		APPROVED: 2/26/03											
				COMMENT:EMAIL PREQ CHG													

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COLLEGE : D - Environment  
 DEPARTMENT: ENVIR & FOREST SCIENCES

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	&			
BSE 309	CREAT INNOVATION Creativity and Innovation	AUT/2010 - AUT/9999	2.0	.	.	.	.	.	.	Y	.	.	.	.	BSE 309	CHEM E309	.
			COMMENT:WAS PSE 309	LAST UPDT:11/08/10		APPROVED: 3/29/93											
BSE 391	ENGR PRIN BIOREFINE Engineering Principles of Biorefineries	AUT/2014 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.			.
			COMMENT:WAS PSE 309	LAST UPDT: 3/19/14		APPROVED: 3/18/14											
BSE 392	BIORESOURCE TRNSPRT Bioresource Transport Phenomena	WIN/2016 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.			.
			COMMENT:WAS PSE 399	LAST UPDT: 9/08/15		APPROVED: 3/18/14											
BSE 399	UNDERGRAD INTERNSHIP Undergraduate Internship	AUT/2010 - AUT/9999	1.0-05.0	15.0	.	CR/NC	.	.	.	.	.	.	.	.			.
			COMMENT:WAS PSE 399	LAST UPDT: 6/16/10		APPROVED: 4/28/04											
BSE 406	NAT PROD CHEMISTRY Natural Products Chemistry	WIN/2016 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.			.
			COMMENT:WAS PSE 399	LAST UPDT: 9/08/15		APPROVED: 3/29/93											
BSE 420	BSE ENGR I Bioresource Engineering I	WIN/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.			.
			COMMENT:CHG TTL, CRDTS, HRS	LAST UPDT:11/14/11		APPROVED: 3/29/93											
BSE 421	BSE ENGR 2 Bioresource Engineering II	SPR/2019 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.			.
			COMMENT:WAS PSE 399	LAST UPDT: 5/18/18		APPROVED: 3/29/93											
BSE 422	BIORESOURCE ENGR 3 Bioresource Engineering III	SPR/2011 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.			.
			COMMENT:EMAIL PREQ CHG	LAST UPDT: 2/17/11		APPROVED: 3/29/93											
BSE 426	BIORESOURCES LAB Bioresource Laboratory	SPR/2016 - AUT/9999	4.0	.	.	.	.	.	.	Y	.	.	.	.			.
			COMMENT:EMAIL PREQ CHG	LAST UPDT: 3/06/15		APPROVED: 3/29/93											
				FEE TYPE:1	\$156.00	BUDGET:069393	REV	OBJ	CD:943081								
BSE 430	PAPERMAKING PROC Papermaking Processes	AUT/2015 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	.			.
			COMMENT:WAS PSE 399	LAST UPDT: 5/08/15		APPROVED: 3/29/93											
				FEE TYPE:1	\$10.00	BUDGET:069393	REV	OBJ	CD:943081								







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COLLEGE : D - Environment  
 DEPARTMENT: ENVIR & FOREST SCIENCES

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	E	U		N	E	P & A	N & S	C & W			
ESRM 100	ENVIRONMENTAL SCI Introduction to Environmental Science	AUT/2009 - AUT/9999	5.0	.	.	.	.	Y	.	Y	Y	.	.	.	.	.	.	.
COMMENT:CHG COLLEGE			LAST UPDT:10/09/14 APPROVED:11/18/96 FEE TYPE:1 \$20.00 BUDGET:063939 REV OBJ CD:943081															
ESRM 101	FORESTS AND SOCIETY Forests and Society	AUT/2009 - AUT/9999	5.0	.	.	.	.	Y	.	Y	Y	.	.	.	.	.	.	.
COMMENT:CHG COLLEGE			LAST UPDT: 9/19/12 APPROVED: 4/28/04 FEE TYPE:1 \$15.00 BUDGET:069393 REV OBJ CD:943081															
ESRM 150	WILDLIFE MOD WORLD Wildlife in the Modern World	AUT/2009 - AUT/9999	5.0	.	.	.	.	Y	.	Y	Y	.	.	.	.	.	.	.
COMMENT:CHG COLLEGE			LAST UPDT: 9/19/12 APPROVED: 6/12/97 FEE TYPE:1 \$20.00 BUDGET:069393 REV OBJ CD:943081															
ESRM 161	INTRO BIOL I INTRODUCTION TO BIOLOGY I	SPR/2010 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	.	FISH 161	FISH 161	161	.
COMMENT:CHG JT COLLEGE			LAST UPDT: 2/10/10 APPROVED: 8/19/08															
ESRM 162	INTRO BIOL II INTRODUCTION TO BIOLOGY II	SPR/2010 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	.	ESRM 162	FISH 162	162	.
COMMENT:MOVE JT COLLEGE			LAST UPDT: 2/10/10 APPROVED: 8/19/08															
ESRM 190	SPECIAL TOPICS Special Topics	SPR/2012 - AUT/9999	1.0-05.0	10.0	.	.	.	.	.	Y	.	.	.	.	.	.	.	.
COMMENT:3-10-14 REMOVE FEE			LAST UPDT: 7/25/14 APPROVED:12/21/10															
ESRM 200	SOC & ENVIRONMENTS Society and Sustainable Environments	AUT/2009 - AUT/9999	5.0	.	.	.	.	Y	.	Y	Y	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE			LAST UPDT: 7/23/15 APPROVED: 4/28/04 FEE TYPE:1 \$30.00 BUDGET:069393 REV OBJ CD:943081															
ESRM 201	PAC NW ECOSYSTEMS Sustaining Pacific Northwest Ecosystems	AUT/2009 - AUT/9999	5.0	.	.	.	.	Y	.	Y	Y	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE			LAST UPDT: 7/23/15 APPROVED: 4/28/04 FEE TYPE:1 \$75.00 BUDGET:069393 REV OBJ CD:943081															
ESRM 210	SOILS Introductory Soils	AUT/2011 - AUT/9999	5.0	.	.	.	.	Y	.	Y	Y	.	.	.	.	.	.	.
COMMENT:CHG CREDITS			LAST UPDT: 2/11/13 APPROVED:11/20/86 FEE TYPE:1 \$23.00 BUDGET:069393 REV OBJ CD:943081															









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COLLEGE : D - Environment  
 DEPARTMENT: ENVIR & FOREST SCIENCES

CURRIC NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D				S H F				V L E E W				RESPONS COURSE	JOINT COURSES	O M I T
				-ALL	U	GRD	E	U	N	E	P	N	C	M	S			
ESRM 423	INT TRADE MKT ENVIR International Trade, Marketing, and the Environment	AUT/2009 - AUT/9999	3.0	.	.	.	.	Y	.	Y	Y	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE				LAST UPDT: 1/17/18 APPROVED: 2/28/94 FEE TYPE:1 \$30.00 BUDGET:069393 REV OBJ CD:943081														
ESRM 425	ECOSYSTEM MGMT Ecosystem Management	AUT/2016 - AUT/9999	5.0	.	.	.	.	Y	.	Y	Y	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE				LAST UPDT: 5/09/16 APPROVED: 5/26/94 FEE TYPE:1 \$432.00 BUDGET:069393 REV OBJ CD:943081														
ESRM 426	WILDLAND HYDROLOGY Wildland Hydrology	WIN/2014 - AUT/9999	4.0	.	.	.	.	Y	.	Y	Y	.	.	.	.	.	.	.
COMMENT:CHG FEE				LAST UPDT:11/04/13 FEE TYPE:1 \$46.00 BUDGET:069394 REV OBJ CD:943081														
ESRM 427	FOREST LANDSCAPES INTEGRATED MANAGEMENT OF FOREST LANDSCAPES IN A CH	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE				LAST UPDT: 8/12/09 APPROVED: 1/24/07														
ESRM 428	PRINCP SILVICULTURE Principles of Silviculture and Their Application	AUT/2009 - AUT/9999	5.0	.	.	.	.	Y	.	Y	Y	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE, FEE 3/14				LAST UPDT: 3/14/14 APPROVED: 3/29/06 FEE TYPE:1 \$403.00 BUDGET:069393 REV OBJ CD:943081														
ESRM 429	ENV SCI RES MGT SEM Environmental Science and Resource Management Seminar	WIN/2013 - AUT/9999	1.0	6.0	.	CR/NC	.	.	.	.	Y	.	.	.	.	.	.	.
COMMENT:CHG TITLES				LAST UPDT:11/20/12 APPROVED: 4/28/04														
ESRM 430	REM SENS ENVIRO Remote Sensing of the Environment	WIN/2014 - AUT/9999	5.0	.	.	.	.	Y	.	Y	Y	.	.	.	.	.	.	.
COMMENT:10/13 CHG FEE, CHG TITLES				LAST UPDT:11/20/13 APPROVED:11/20/86 FEE TYPE:1 \$80.00 BUDGET:069393 REV OBJ CD:943081														
ESRM 431	ECOPSYCHOLOGY Ecopsychology	AUT/2015 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	.	.	.	ENVIR 431	PSYCH 431
LAST UPDT: 7/23/15 APPROVED: 6/02/15 ENVIR 431																		
ESRM 432	ADV REMOTE SENSING Advanced Remote Sensing and Earth Observation	WIN/2020 - AUT/9999	4.0	.	.	.	.	.	.	Y	.	Y	.	.	.	CEE 432	CEE 432	.
LAST UPDT: 9/27/19 APPROVED: 9/17/19																		

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COLLEGE : D - Environment  
 DEPARTMENT: ENVIR & FOREST SCIENCES

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				-ALL U	GRD		E	U N E	P	& N C M S N	A S W T P R G						
ESRM 433	AIRBORNE LIDAR Airborne Lidar for Remote Sensing of Vegetation and Geomorphology	SPR/2016 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/01/16 APPROVED: 1/19/16													
ESRM 435	INSECT ECOLOGY Insect Ecology	SPR/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/15/16 APPROVED:11/20/86													
ESRM 436	LAB INSECT ECOLOGY Laboratory in Insect Ecology	SPR/2017 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/16/16 APPROVED:11/20/86													
				FEE TYPE:1 \$25.00 BUDGET:069393 REV OBJ CD:943081													
ESRM 441	LANDSCAPE ECOLOGY Landscape Ecology	WIN/2010 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 9/19/12 APPROVED:10/22/87													
				COMMENT:EMAIL PREQ CHG FEE TYPE:1 \$140.00 BUDGET:069393 REV OBJ CD:943081													
ESRM 442	SIERRA NEVADA ECOL Forest Ecology and the Sierra Nevada and White Mountains	SUM/2014 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/13/17 APPROVED: 3/19/13													
				COMMENT:ADD FEE FEE TYPE:1 \$586.00 BUDGET:069393 REV OBJ CD:943081													
ESRM 444	FOREST ECOSYST PROT FOREST ECOSYSTEM PROTECTION: INSECTS AND DISEASES	SPR/2011 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/11/12 APPROVED: 9/27/91													
				COMMENT:EMAIL PREQ CHG FEE TYPE:1 \$60.00 BUDGET:069393 REV OBJ CD:943081													
ESRM 447	WATERSHED ECOL Watershed Ecology and Management	SPR/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	FISH 447	FISH 447	.
				LAST UPDT: 3/03/17 APPROVED: 6/21/99													
				FEE TYPE:1 \$50.00 BUDGET:069602 REV OBJ CD:943081													
ESRM 448	WATERSHED ECOL LAB Watershed Ecology and Management Lab	SPR/2017 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	FISH 448	FISH 448	.
				LAST UPDT:12/07/17 APPROVED: 2/21/17													
				FEE TYPE:1 \$70.00 BUDGET:069602 REV OBJ CD:943081													
ESRM 450	WILD ECOL CONSERV Wildlife Ecology and Conservation	AUT/2015 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 2/23/15 APPROVED: 3/29/93													
				COMMENT:EMAIL PREQ CHG													



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COLLEGE : D - Environment  
 DEPARTMENT: ENVIR & FOREST SCIENCES

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				-ALL U	GRD		E	U N E	P	& N C M S N	A S W T P R G						
ESRM 451	ANALYT METH WILDLIFE Analytical Methods in Wildlife Science	SUM/2019 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.	ESRM 451 Q	SCI 451	.	
				LAST UPDT: 8/20/19 APPROVED: 9/19/17													
ESRM 452	FIELD ORNITHOLOGY Field Ornithology	SUM/2018 - AUT/9999	3.0	.	.	.	.	Y	.	Y	.	.	.			.	
				LAST UPDT: 7/31/18 APPROVED: 3/29/93 FEE TYPE:1 \$90.00 BUDGET:069393 REV OBJ CD:943081													
ESRM 453	BIOL & ECOL MAMMALS Biology and Ecology of Mammals	SUM/2019 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.			.	
				LAST UPDT: 6/13/19 APPROVED: 6/06/17													
ESRM 455	WLF SEMINAR Wildlife Seminar	AUT/2009 - AUT/9999	1.0	8.0	Y	CR/NC	.	.	.	.	Y	.	.			.	
				LAST UPDT:10/12/09 APPROVED:12/18/81 COMMENT:MOVE COLLEGE													
ESRM 456	BIOL & CONS BIRDS Biology and Conservation of Birds	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.			.	
				LAST UPDT:10/12/09 APPROVED: 3/29/93 COMMENT:EMAIL PREQ CHG - MOVE COLLEGE													
ESRM 457	FISH WILDLIFE TOXIC Fish and Wildlife Toxicology	SPR/2010 - AUT/9999	3.0-05.0	.	.	.	.	Y	.	Y	.	.	.	FISH 455	FISH 455	.	
				LAST UPDT:11/02/15 APPROVED: 9/22/97 FEE TYPE:1 \$50.00 BUDGET:069602 REV OBJ CD:943081 COMMENT:MOVE JT COLLEGE													
ESRM 458	MGMT ENDANGERED SPE Management of Endangered, Threatened, and Sensitive Species	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.			.	
				LAST UPDT:10/12/09 APPROVED: 2/25/98 COMMENT:MOVE COLLEGE													
ESRM 459	WILDLF CONS IN NW Wildlife Conservation in Northwest Ecosystems	SPR/2014 - AUT/9999	3.0	.	.	.	.	Y	.	Y	.	.	.			.	
				LAST UPDT: 1/09/14 APPROVED:12/06/93 FEE TYPE:1 \$558.00 BUDGET:069393 REV OBJ CD:943081 COMMENT:CHG FEE													
ESRM 460	PWR PRIV & PRSERV Power, Privilege, and Preservation	AUT/2015 - AUT/9999	5.0	.	.	.	.	.	.	Y	Y	.	.	ENVIR 460	ENVIR 460	.	
				LAST UPDT: 9/16/15 APPROVED: 4/15/18													





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COLLEGE : D - Environment  
 DEPARTMENT: ENVIR & FOREST SCIENCES

CURRIC NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D		D	S H F			V L R					RESPONS COURSE	JOINT COURSES	O M I T
				-ALL	U		GRD	E	U	N	E	P	& N	C			
ESRM 491	FIELD STUDIES Field Studies	AUT/2017 - AUT/9999	1.0-05.0	10.0	.	.	.	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT: 2/07/17 APPROVED: 2/17/09 FEE TYPE:1 \$189.00 BUDGET:069393 REV OBJ CD:943081													
ESRM 494	CAPSTONE PROPOSAL Senior Capstone Proposal	WIN/2010 - AUT/9999	5.0	.	.	12	.	.	Y	.	.	.	.	.	.	.	.
				LAST UPDT: 9/19/12 APPROVED:12/20/04 FEE TYPE:1 \$547.00 BUDGET:069393 REV OBJ CD:943081 COMMENT:CHG HYPHEN													
ESRM 495	SENIOR PROJECT Senior Project	WIN/2010 - AUT/9999	5.0	.	.	22	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/20/10 APPROVED: 4/28/04 COMMENT:CHG HYPHEN													
ESRM 496	SENIOR THESIS Senior Thesis	WIN/2010 - AUT/9999	5.0	.	.	22	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 1/20/10 APPROVED: 4/28/04 COMMENT:CHG HYPHEN													
ESRM 499	UNDERGRAD RESEARCH Undergraduate Research	AUT/2009 - AUT/9999	1.0-05.0	15.0	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT: 8/12/09 APPROVED: 4/28/04 COMMENT:MOVE COLLEGE													

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COLLEGE : D - Environment  
DEPARTMENT: ENVIR & FOREST SCIENCES

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	GRD	E	U N E	P	N C M S N	A S W T P R G	P &	A	S	T	P			
SEFS 500	GRAD ORIENT SEMINAR Graduate Orientation Seminar	AUT/2014 - AUT/9999	1.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
COMMENT:14-16 DESC CHG				LAST UPDT: 7/25/14		APPROVED: 9/27/93												
SEFS 501	COMMUNITY ECOLOGY Forest Ecosystems - Community Ecology	AUT/2012 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	
COMMENT:WAS CFR 501				LAST UPDT: 9/19/12		APPROVED: 5/23/05		FEE TYPE:1 \$160.00 BUDGET:069393 REV OBJ CD:943081										
SEFS 502	ANLYS TECH COM ECOL Analytical Techniques for Community Ecology	WIN/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
COMMENT:CHG CREDITS				LAST UPDT: 5/02/14		APPROVED:12/06/93												
SEFS 503	ISSUES RESTOR & HORT Current Issues in Restoration Ecology and Environmental Horticulture	AUT/2012 - AUT/9999	1.0	10.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	
COMMENT:WAS CFR 503				LAST UPDT:12/14/11		APPROVED: 3/25/05												
SEFS 504	RECH PROC FOR RES Research Processes in Forest Resources	AUT/2012 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
COMMENT:WAS CFR 504				LAST UPDT:12/14/11		APPROVED: 5/25/05												
SEFS 505	PULP PAPER &BIOPROD Introduction to Pulp, Paper, and Bioproducts	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
COMMENT:WAS CFR 505				LAST UPDT:10/18/18		APPROVED: 5/23/05												
SEFS 506	TERR INVASION ECOL Terrestrial Invasion Ecology	AUT/2018 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
COMMENT:WAS CFR 506				LAST UPDT: 4/19/18		APPROVED: 4/17/18												
SEFS 507	SOIL LAND USE PROB Soils and Land Use Problems	WIN/2014 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	
COMMENT:CHG FEE				LAST UPDT:11/04/13		APPROVED:10/05/92		FEE TYPE:1 \$50.00 BUDGET:069393 REV OBJ CD:943081										
SEFS 508	PLANT MODELING Plant Process and Systems Modeling	AUT/2018 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
COMMENT:WAS CFR 508				LAST UPDT: 6/11/18		APPROVED: 6/05/18												



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COLLEGE : D - Environment  
DEPARTMENT: ENVIR & FOREST SCIENCES

CURRIC NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D				S H F				V L E E W				RESPONS COURSE	JOINT COURSES	O M I T
				-ALL U	GRD	E	D	U N E	M R E	P & N C M S N	A S W T P R G	P	S Y S	D H Y P H	L I E C Q T			
SEFS 522	PLANT MICRO SEMINAR Plant Microbiology Seminar	WIN/2020 - AUT/9999	2.0	4.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 9/23/19				APPROVED: 1/24/07										
SEFS 523	ENVIRO APPL PLANTS Environmental Applications of Plants: Bioenergy and Bioremediation	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 9/05/12				APPROVED: 6/15/10										
				COMMENT:CHG TITLES														
SEFS 524	CURR TOP PHYTOREMED Current Topics in Phytoremediation	SPR/2017 - AUT/9999	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT:12/15/16				APPROVED:12/13/16										
SEFS 525	ADV WILDLAND HYDROL Advanced Wildland Hydrology	WIN/2014 - AUT/9999	4.0	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	
				LAST UPDT:11/04/13				APPROVED:11/18/88										
				FEE TYPE:1				\$46.00 BUDGET:069393 REV OBJ CD:943081										
SEFS 526	ADV SILVICULTURE SEM Seminar in Advanced Silviculture	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT:12/14/11				APPROVED: 3/29/06										
				COMMENT:WAS CFR 526														
SEFS 527	ECOSYSTEMS SEMINAR Ecosystems Seminar	AUT/2012 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT:12/14/11				APPROVED:10/22/87										
				COMMENT:WAS CFR 527														
SEFS 528	INTNL FORESTRY International Forestry	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 7/25/14														
				COMMENT:WAS CFR 528														
SEFS 529	SEFS SEMINAR School of Environmental and Forest Sciences Seminar	AUT/2013 - AUT/9999	1.0	6.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	
				LAST UPDT: 8/21/13				APPROVED: 9/22/97										
				COMMENT:DROP JT STATUS, CHG TTL, DESC														
SEFS 530	INTRO REST ECOL Introduction to Restoration Ecology	AUT/2015 - AUT/9999	3.0-05.0	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	
				LAST UPDT: 4/12/17				APPROVED: 3/17/15										
				FEE TYPE:1				\$15.00 BUDGET:069393 REV OBJ CD:943081										

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COLLEGE : D - Environment  
 DEPARTMENT: ENVIR & FOREST SCIENCES

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				-ALL U	GRD		U N E	P	& N C M S N	A S W T P R G							
SEFS 532	ADV REMOTE SENSING Advanced Remote Sensing and Earth Observation	WIN/2020 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	CEWA 532	CEWA 532	.	
				LAST UPDT: 9/20/19		APPROVED: 9/17/19											
SEFS 533	AIRBORNE LIDAR Airborne Lidar for Remote Sensing of Vegetation and Geomorphology	SPR/2016 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 2/01/16		APPROVED: 1/19/16											
SEFS 535	FIRE ECOLOGY Fire Ecology	AUT/2013 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.			.	
				LAST UPDT: 3/14/14		APPROVED: 5/25/05											
				COMMENT:CHG CREDITS, 3/14 FEE		FEE TYPE:1		\$126.00		BUDGET:069393		REV OBJ CD:943081					
SEFS 540	OPTIMIZATION TECH Optimization Techniques for Natural Resources	AUT/2012 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT:12/14/11		APPROVED: 2/15/11											
				COMMENT:WAS CRF 540													
SEFS 541	ADV LANDSCAPE ECOL Advanced Landscape Ecology	WIN/2013 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.			.	
				LAST UPDT: 7/25/14		APPROVED:11/20/07											
				COMMENT:CHG DESC		FEE TYPE:1		\$140.00		BUDGET:069393		REV OBJ CD:943081					
SEFS 545	PRINCIP FOR ENTOMOL PRINCIPLES OF FOREST ENTOMOLOGY	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT:12/11/12		APPROVED: 6/01/89											
				COMMENT:WAS CFR 545													
SEFS 549	URBAN HORT SEMINAR Urban Horticulture Seminar	AUT/2012 - AUT/9999	1.0	6.0	Y	CR/NC	.	.	.	.	.	.	.			.	
				LAST UPDT:12/14/11		APPROVED: 6/23/89											
				COMMENT:WAS CFR 549													
SEFS 550	GRADUATE SEMINAR Graduate Seminar	AUT/2012 - AUT/9999	2.0-05.0	10.0	.	.	.	.	.	.	.	.	.			.	
				LAST UPDT: 5/29/12		APPROVED: 9/19/94											
				COMMENT:WAS CFR 550													
SEFS 554	WILDLIFE SEMINAR Wildlife Seminar	AUT/2012 - AUT/9999	1.0-02.0	10.0	Y	CR/NC	.	.	.	.	.	.	.			.	
				LAST UPDT:12/14/11		APPROVED: 5/25/05											
				COMMENT:WAS CFR 554													



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COLLEGE : D - Environment  
 DEPARTMENT: ENVIR & FOREST SCIENCES

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			
SEFS 561	PROF PRES ENV SCI Professional Presentations in Environmental Sciences	SPR/2020 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				LAST UPDT:12/18/19		APPROVED: 5/25/05											
SEFS 564	ADV FOR BIOMETRY Advanced Forest Biometry	AUT/2012 - AUT/9999	3.0-05.0	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:WAS CFR 564			LAST UPDT:12/14/11													
SEFS 567	TOPICS ADV ECOLOGY Topics in Advanced Ecology	AUT/2012 - AUT/9999	3.0	6.0	.	.	.	.	.	.	.	.	.	BIOL 567	BIOL 567	.	.
	COMMENT:WAS CFR 567			LAST UPDT:12/14/11		APPROVED: 9/16/08		FISH 567									
SEFS 570	SEM ENVIR SOC Seminar in Environmental Sociology	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	SEFS 570	SOC 570	.	.
	COMMENT:WAS CFR 570			LAST UPDT: 5/05/17													
SEFS 571	RES POL ADMIN Resource Policy and Administration	AUT/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	SEFS 571	PUBPOL592	.	.
				LAST UPDT:11/03/15		APPROVED: 9/18/85											
SEFS 573	ENV RES PLAN FOREST ENVIRONMENTAL RESOURCE PLANNING	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:WAS CFR 573			LAST UPDT:12/14/11													
SEFS 574	ECOLOGICAL ENG Restoration Problem Solving: Ecological Engineering	AUT/2014 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:400-500			LAST UPDT: 2/19/14		APPROVED: 2/18/14											
SEFS 580	ADV URBAN ECOLOGY Advanced Urban Ecology	AUT/2014 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	SEFS 580	URBDP 548	.	.
	COMMENT:14-16 CHG JT STATUS			LAST UPDT: 8/18/14		APPROVED:12/21/01											
SEFS 590	GRADUATE STUDIES Graduate Studies	AUT/2012 - AUT/9999	1.0-05.0	10.0	.	.	.	.	.	.	.	.	.	.	.	.	.
	COMMENT:WAS CFR 590			LAST UPDT: 9/19/12		APPROVED: 3/29/93											

FEE TYPE:1 \$432.00 BUDGET:069393 REV OBJ CD:943081













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DEPARTMENT: MARINE & ENVIR AFFAIRS

CURRIC NUM	COURSE TITLE	EFFECTIVE	QUARTERS	CREDITS	OVER D		D	S H F			V L R					RESPONS	JOINT	O				
					-ALL	U		GRD	E	U	N	E	P	&	N				C	M	S	N
					MAX	P	SYS	D	HYPH	M	R	E	A	S	W	T	P	R	G	COURSE	COURSES	T
SMEA 650	MAR&ENVIR CAPSTONE Marine and Environmental Affairs Capstone Project	AUT/2016 -	AUT/9999	4.0-05.0	9.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT:		1/25/16		APPROVED:		1/19/16											
SMEA 700	MASTERS THESIS Master's Thesis	WIN/2012 -	AUT/9999	0.0	999.0	.	.	11	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT:		9/07/11		APPROVED:		9/21/78											
					COMMENT:WAS SMA 700																	