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DEPARTMENT: EARTH AND SPACE SCIENCES																		
COURSE		TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D		D		S H F		V L		E E W		RESPONS	JOINT	O
CURRIC	NUM					MAX	P	GRD	E	HYPH	M	R	E	L	I			

ESS	100	DINOSAURS Dinosaurs	AUT/2009 -	AUT/9999	2.0	.	.	.	.	.	.	.	Y	.	.	.	.	.
						LAST UPDT: 8/12/09 APPROVED:12/01/85												
COMMENT:MOVE COLLEGE																		
ESS	101	GEOLOGY & SOCIETY Introduction to Geology & Societal Impacts	WIN/2018 -	AUT/9999	5.0	.	.	.	.	Y	.	Y	Y	.	.	.	.	.
						LAST UPDT: 9/25/17 APPROVED: 1/01/82												
						FEE TYPE:1 \$30.00 BUDGET:069340 REV OBJ CD:943081												
ESS	102	SPACE&SPACE TRAVEL Space and Space Travel	SPR/2016 -	AUT/9999	5.0	.	.	.	.	Y	.	Y	Y	.	.	.	.	.
						LAST UPDT: 9/20/12												
						FEE TYPE:1 \$20.00 BUDGET:069340 REV OBJ CD:943081												
ESS	103	MINERALS AND GEMS Minerals and Gems	AUT/2009 -	AUT/9999	3.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.
						LAST UPDT: 8/06/12 APPROVED: 9/24/01												
						FEE TYPE:1 \$11.00 BUDGET:069340 REV OBJ CD:943081												
ESS	104	PREHISTORIC LIFE Prehistoric Life	AUT/2009 -	AUT/9999	3.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.
						LAST UPDT: 8/06/12 APPROVED: 1/30/03												
						FEE TYPE:1 \$10.00 BUDGET:069340 REV OBJ CD:943081												
ESS	105	PROCESSES & HAZARDS The Earth: Its Processes and Hazards	AUT/2009 -	AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.
						LAST UPDT:12/14/17 APPROVED: 4/28/03												
						FEE TYPE:1 \$15.00 BUDGET:069340 REV OBJ CD:943081												
ESS	106	LIVING WITH VOLCANO Living with Volcanoes	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	Y	Y	.	.	.	.
						LAST UPDT: 8/12/09 APPROVED: 4/28/03												
COMMENT:MOVE COLLEGE																		
ESS	115	INTRO ASTROBIOLOGY Astrobiology: Life in the Universe	SPR/2010 -	AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.
						LAST UPDT: 2/10/10 APPROVED: 2/27/04												
						OCEAN 115												
						ASTR 115												
						BIOL 114												
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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CURRIC	COURSE NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER	D	D	S	H	F	V	L	E	E	W	R	O				
						-ALL	U	GRD	E	U	N	E	P	I	N	C	M		S	N	T	M
						MAX	P	SYS	D	HYPH	M	R	A	S	W	T	P	R	G	RESPONS	JOINT	T
ESS	201	EARTH CLIMATE The Earth System and Climate	SPR/2017 - WIN/2018		5.0		.		.		.	.	.	Y	.	.	.	.	.			.
						LAST UPDT: 9/25/17 APPROVED: 6/27/01																
ESS	201	CLIMATE SYSTEM Earth's Climate System	SPR/2018 - AUT/9999		3.0		.		.		.	.	.	Y	.	.	.	.	.			.
						LAST UPDT: 9/25/17 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: 8/14/14 APPROVED: 9/28/98																
						COMMENT:CHG AOK, DESC FEE TYPE:1 \$12.00 BUDGET:069340 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	.	.	.	.			.
						LAST UPDT: 8/06/12 APPROVED: 2/26/03																
						COMMENT:MOVE COLLEGE FEE TYPE:1 \$32.00 BUDGET:069340 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 - AUT/9999		5.0		.		.		.	Y	.	.	Y	.	.	.	.			.
						LAST UPDT: 1/05/17 APPROVED: 1/01/82																
						FEE TYPE:1 \$20.00 BUDGET:069340 REV OBJ CD:943081																
ESS	211	PHYS PROC EARTH Physical Processes of the Earth	WIN/2018 - AUT/9999		5.0		.		.		.	Y	.	.	Y	.	.	.	.			.
						LAST UPDT: 6/21/17 APPROVED: 3/17/97																
						FEE TYPE:1 \$26.00 BUDGET:069340 REV OBJ CD:943081																

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CURRIC	COURSE NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D D S H F L I E E W -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													RESPONS COURSE	JOINT COURSES	O M I T	
ESS	212	EARTH MATERIALS Earth Materials and Processes	WIN/2018	- AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.			
						LAST UPDT: 6/21/17 APPROVED: 9/22/97 FEE TYPE:1 \$75.00 BUDGET:069340 REV OBJ CD:943081																
ESS	213	EVOLUTION OF EARTH Evolution of the Earth	WIN/2018	- AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.			
						LAST UPDT: 6/21/17 APPROVED: 9/22/97 FEE TYPE:1 \$40.00 BUDGET:069340 REV OBJ CD:943081																
ESS	230	RIVERS AND BEACHES Rivers and Beaches	SPR/2010	- AUT/9999	3.0-05.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.			
						LAST UPDT: 8/06/12 APPROVED: 4/28/03 FEE TYPE:1 \$50.00 BUDGET:069340 REV OBJ CD:943081													ESS	230 OCEAN	230	.
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	301	GEOL OF NORTHWEST Geology of the Northwest	AUT/2009	- AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.			
						LAST UPDT: 8/06/12 FEE TYPE:1 \$25.00 BUDGET:069340 REV OBJ CD:943081																
COMMENT:MOVE COLLEGE																						
ESS	302	GREAT ICE AGE Great Ice Age	AUT/2009	- AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.			
						LAST UPDT: 8/06/12 APPROVED:10/01/85 FEE TYPE:1 \$20.00 BUDGET:069340 REV OBJ CD:943081																
COMMENT:MOVE COLLEGE																						
ESS	303	GEOLOGIC HAZARDS GEOLOGIC HAZARDS	AUT/2009	- AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.			
						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	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.			
						LAST UPDT:12/14/17 APPROVED:12/01/83 FEE TYPE:1 \$39.00 BUDGET:069340 REV OBJ CD:943081																
COMMENT:MOVE COLLEGE																						
ESS	305	GEOL NATIONAL PARKS Geology of the National Parks	AUT/2009	- AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.			
						LAST UPDT: 8/06/12 APPROVED:12/01/89 FEE TYPE:1 \$30.00 BUDGET:069340 REV OBJ CD:943081																
COMMENT:MOVE COLLEGE																						

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					MAX	P	D HYPH	M R E	P & N A S W	T	P R G			
ESS 306	PLANETARY GEOLOGY Planetary Geology	AUT/2009 -	AUT/9999	5.0	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT: 8/12/09 APPROVED:12/10/90									
					COMMENT:MOVE COLLEGE									
ESS 307	ESS DIV OUTREACH Diversity Outreach Program in Earth and Space Sciences	SPR/2017 -	AUT/9999	3.0-05.0	.	.	.	.	.	Y	Y	.	.	.
					LAST UPDT: 2/13/17 APPROVED:12/13/16									
ESS 310	EARTH SCI MATH Mathematical Methods in the Earth Sciences	SUM/2017 -	AUT/9999	5.0	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT: 3/22/17 APPROVED: 8/21/12									
ESS 311	GEOMECHANICS Geomechanics	WIN/2018 -	AUT/9999	5.0	.	.	.	Y	.	Y	.	.	.	.
					LAST UPDT: 6/21/17 APPROVED: 2/25/98									
					FEE TYPE:1 \$10.00 BUDGET:069340 REV OBJ CD:943081									
ESS 312	GEOCHEMISTRY Geochemistry	WIN/2018 -	AUT/9999	5.0	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT: 6/21/17 APPROVED: 2/25/98									
ESS 313	GEOBIOLOGY Geobiology	WIN/2018 -	AUT/9999	5.0	.	.	.	Y	.	Y	.	.	.	.
					LAST UPDT: 6/15/17 APPROVED: 2/25/98									
					FEE TYPE:1 \$40.00 BUDGET:069340 REV OBJ CD:943081									
ESS 314	GEOPHYSICS Geophysics	SPR/2017 -	AUT/9999	5.0	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT: 1/13/17 APPROVED:10/29/03									
ESS 315	ENVIR EARTH SCI Environmental Earth Science	AUT/2009 -	AUT/9999	5.0	.	.	.	Y	.	Y	.	.	.	.
					LAST UPDT: 8/06/12 APPROVED: 3/01/76									
					FEE TYPE:1 \$20.00 BUDGET:069340 REV OBJ CD:943081									
ESS 320	CHANGING RIVERS Changing Rivers of Puget Sound	SPR/2011 -	AUT/9999	5.0	.	.	.	Y	.	Y	.	.	.	.
					LAST UPDT: 8/05/14 APPROVED:12/21/10									
					FEE TYPE:1 \$30.00 BUDGET:069340 REV OBJ CD:943081									
					COMMENT: DING									
ESS 326	GEOMORPHOLOGY Geomorphology	AUT/2012 -	AUT/9999	5.0	.	.	.	Y	.	Y	.	.	.	.
					LAST UPDT: 9/28/12 APPROVED: 2/25/98									
					FEE TYPE:1 \$30.00 BUDGET:069340 REV OBJ CD:943081									
					COMMENT:CHG PREQ									

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COURSE		TITLE	EFFECTIVE	QUARTER	CREDITS	OVER	D	D	S	H	F	V	E	E	W								
CURRIC	NUM					MAX	U	GRD	E	U	N	E	L	I	E	C	Q	T	O				
						-ALL	P	SYS	D	HYPH	M	R	E	P	&	N	C	M	S	N	RESPONS	JOINT	
														A	S	W	T	P	R	G	COURSE	COURSES	I
ESS	345	MINERAL DEPOSITS The Environment of Fuel and Mineral Deposits	SPR/2012 - AUT/9999	3.0		.	.		.	.	Y	.	Y	Y	.	.	.	.	.	.			.
						LAST UPDT: 8/06/12 APPROVED: 9/24/01																	
		COMMENT:EMAIL PREQ CHG				FEE TYPE:1	\$50.00	BUDGET:069340	REV	OBJ	CD:943081												
ESS	400	FIELD GEOLOGY Field Geology	AUT/2009 - AUT/9999	12.0		.	.		.	.	.	.	Y	.	.	.	.	.	.	.			.
						LAST UPDT: 8/12/09 APPROVED: 3/01/89																	
		COMMENT:MOVE COLLEGE																					
ESS	401	REGIONAL GEOL PNW Regional Geology of the Pacific Northwest	AUT/2009 - AUT/9999	3.0		.	.		.	.	Y	.	Y	.	.	.	.	.	.	.			.
						LAST UPDT:12/14/17 APPROVED: 5/20/96																	
		COMMENT:MOVE COLLEGE				FEE TYPE:1	\$45.00	BUDGET:069340	REV	OBJ	CD:943081												
ESS	402	INTL FIELD GEOLOGY International Field Geology	AUT/2009 - WIN/2018	3.0-12.0	12.0	.	.		.	.	.	.	Y	.	.	.	.	.	.	.			.
						LAST UPDT:11/21/17 APPROVED:12/01/99																	
		COMMENT:MOVE COLLEGE																					
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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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	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	Y	.
LAST UPDT: 8/12/09														
COMMENT:MOVE COLLEGE														
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: 5/04/17 APPROVED: 6/01/81														
COMMENT:MOVE COLLEGE FEE TYPE:1 \$20.00 BUDGET:069340 REV OBJ CD:943081														
ESS 422	SPECTRL REMOTE SENS Intermediate Spectral Remote Sensing	AUT/2009 -	AUT/9999	4.0	.	.	.	.	.	Y	.	.	.	.
LAST UPDT:12/14/17 APPROVED: 9/20/99														
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						-ALL MAX	U P	GRD SYS	E D	HYPH	U M	N R	E E	P A	& S	N W	C T	M P			
ESS	424	WATER IN ENVIRONMNT Water in the Environment	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.	.	ESS	424	ATM S 460	.	
						LAST UPDT: 9/06/12 APPROVED: 2/25/00													PHYS 460		
COMMENT:MOVE COLLEGE																					
ESS	425	TECTONIC GEOMORPH Tectonic Geomorphology	SUM/2017 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
						LAST UPDT:10/17/17 APPROVED:11/17/15															
COMMENT:MOVE COLLEGE																					
ESS	426	FLUVIAL GEOMORPH Fluvial Geomorphology	AUT/2012 -	AUT/9999	5.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.		
						LAST UPDT: 9/28/12 APPROVED: 1/01/79															
COMMENT:CHG PREQ						FEE TYPE:1 \$40.00 BUDGET:069340 REV OBJ CD:943081															
ESS	427	HILLSLOPE GEOMORPH Hillslope Geomorphology	AUT/2013 -	AUT/9999	5.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.		
						LAST UPDT: 8/20/13 APPROVED: 1/01/79															
COMMENT:ADD FEE						FEE TYPE:1 \$40.00 BUDGET:069340 REV OBJ CD:943081															
ESS	428	LANDSCAPE EVOLUTION LANDSCAPE EVOLUTION	AUT/2009 -	AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	.	.	.	.		
						LAST UPDT: 8/12/09 APPROVED: 2/25/98															
COMMENT:MOVE COLLEGE																					
ESS	431	PRINS OF GLACIOLOGY Principles of Glaciology	AUT/2012 -	AUT/9999	4.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.		
						LAST UPDT: 9/28/12 APPROVED: 6/01/89															
COMMENT:UPDATE PREQ						FEE TYPE:1 \$17.00 BUDGET:069340 REV OBJ CD:943081															
ESS	432	GLACIAL GEOLOGY Glacial Geology	AUT/2009 -	AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	.	.	.	.		
						LAST UPDT:12/14/17 APPROVED:12/01/79															
COMMENT:MOVE COLLEGE																					
ESS	433	ENV OF GLACIAL AGES Environmental Change in the Glacial Ages	AUT/2010 -	AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	.	.	.	.		
						LAST UPDT: 4/19/10 APPROVED:12/01/85															
COMMENT:CHG CREDITS, DROP JT STATUS																					
ESS	435	GLACIAL PERIGLACIAL Glacial-Periglacial Geomorphology NW	SUM/2017 -	AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	.	.	.	.	.		
						LAST UPDT: 3/22/17 APPROVED:12/21/10															

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COURSE CURRIC NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER -ALL MAX	D U P	GRD SYS	D E D HYPH	S H F U N E M R E	V L I P & A S W T P R G	E E C M S N P R G	RESPONS COURSE	JOINT COURSES	O M I T
ESS 437	MINERALOGY Mineralogy	SPR/2017 -	AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.
LAST UPDT: 1/05/17 APPROVED:10/26/99														
ESS 439	PETRG/PETRL IGN RCK Petrology of Igneous Rocks	AUT/2009 -	AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.
LAST UPDT: 8/12/09														
COMMENT:MOVE COLLEGE														
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 -	AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.
LAST UPDT: 8/12/09 APPROVED:12/01/81														
COMMENT:MOVE COLLEGE														
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 -	AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.
LAST UPDT: 8/20/13 APPROVED: 2/28/12														
COMMENT:ADD FEE FEE TYPE:1 \$40.00 BUDGET:069340 REV OBJ CD:943081														
ESS 449	BIOL FIELD METHODS Intensive Field Experience in Biology	SUM/2015 -	AUT/9999	3.0-05.0	.	.	.	.	Y	.	Y	.	.	.
LAST UPDT: 6/04/15 APPROVED:12/21/10														
COMMENT:CHG CREDITS FEE TYPE:1 \$120.00 BUDGET:069377 REV OBJ CD:943081														
ESS 450	PALEOBIOLGY 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	.	.	.
LAST UPDT: 3/11/16 APPROVED: 2/25/02														
COMMENT:CHG FEE FEE TYPE:1 \$62.00 BUDGET:069377 REV OBJ CD:943081														

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ESS 452	VERTE PALEO Vertebrate Paleontology	WIN/2014 -	AUT/9999	5.0	.	.	.	.	.	Y	.	.	Y	.	BIOL 450	BIOL 450	.
COMMENT:CHG FEE					LAST UPDT: 3/21/16 APPROVED:10/25/06 FEE TYPE:1 \$50.00 BUDGET:069377 REV OBJ CD:943081												
ESS 453	FOSSIL MAMMALS Fossil Mammals	AUT/2009 -	AUT/9999	5.0	.	.	.	.	.	.	.	.	Y	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09 APPROVED:12/01/85												
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	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/06/12 FEE TYPE:1 \$15.00 BUDGET:069340 REV OBJ CD:943081												
ESS 456	DEPOSTINAL ENVIRONS Depositional Environments	SUM/2017 -	AUT/9999	4.0	.	.	.	.	.	Y	.	.	Y	.	.	.	.
					LAST UPDT:12/18/17 APPROVED: 1/01/82 FEE TYPE:1 \$80.00 BUDGET:069340 REV OBJ CD:943081												
ESS 457	ENV GEOCHEM Environmental Geochemistry	WIN/2017 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT:10/17/17 APPROVED: 3/29/06												
ESS 458	ISOTOPE GEOL LITHOS ISOTOPE AND TRACE ELEMENT GEOLOGY: LITHOSPHERE	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	Y	.	.	.	.
COMMENT:UPDATE PREQ, COLLEGE					LAST UPDT: 8/12/09 APPROVED: 6/01/90												
ESS 459	ENV ISOTOPE GEOCHEM Environmental Isotope Geology	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	Y	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT:12/14/17 APPROVED:10/01/74												
ESS 460	COSMOGENIC NUCLIDES Cosmogenic Nuclides in Geomorphology	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	Y	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09 APPROVED: 3/29/04												

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ESS 461	GEOLOGICAL TIME Geological Time	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT: 8/12/09 APPROVED: 3/27/95									
COMMENT:MOVE COLLEGE														
ESS 462	VOLCANIC PROCESSES Volcanic Processes	SPR/2014 -	AUT/9999	4.0	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT:12/12/13 APPROVED: 6/01/99									
COMMENT:EMAIL PREQ CHG														
ESS 463	STRUCTURE TECTONICS Structure and Tectonics	SPR/2017 -	AUT/9999	5.0	.	.	.	Y	.	Y	.	.	.	.
					LAST UPDT:11/30/16 APPROVED: 2/25/98									
					FEE TYPE:1 \$150.00 BUDGET:069340 REV OBJ CD:943081									
ESS 464	GEODYNAMICS GEODYNAMICS	AUT/2012 -	AUT/9999	4.0	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT: 9/06/12 APPROVED: 2/28/94									
COMMENT:UPDATE PREQ														
ESS 465	SEIS & EARTHQKE ENGR Seismology and Earthquake Engineering	AUT/2012 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	CEE 431 CEE 431	.
					LAST UPDT: 3/21/16 APPROVED:12/01/99									
COMMENT:UPDATE PREQ														
ESS 466	APPLIED SEISMOLOGY APPLIED SEISMOLOGY	AUT/2009 -	AUT/9999	2.0	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT: 8/12/09 APPROVED: 1/01/88									
COMMENT:MOVE COLLEGE														
ESS 467	SEISMIC EXPLORATION Seismic Exploration	WIN/2018 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	ESS 467 OCEAN 412	.
					LAST UPDT: 9/25/17 APPROVED:12/01/89									
COMMENT:UPDATE PREQ														
ESS 471	INTRO TO SPACE PHYS Introduction to Space Physics	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT: 8/12/09 APPROVED: 9/27/91									
COMMENT:MOVE COLLEGE														
ESS 472	ROCKETS & INSTRUMNT Rockets and Instrumentation	WIN/2012 -	AUT/9999	2.0-04.0	12.0	.	.	.	Y	.	.	.	.	.
					LAST UPDT:10/17/17 APPROVED: 2/21/07									
					FEE TYPE:1 \$175.00 BUDGET:069340 REV OBJ CD:943081									
COMMENT:CHG CREDITS, DESC														

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COURSE		TITLE		EFFECTIVE	QUARTER	OVER D	D	S H F	V	E E	W	RESPONS		JOINT	M		
CURRIC	NUM			QUARTERS	CREDITS	-ALL U	GRD	U N E	L I	P & N	C M S N	COURSE	COURSES		I		
						MAX	P	SYS	D	HYPH	M R E	A S W T P R G			T		
ESS	475	CLMT SCI RSRCH SMNR	AUT/2011 - AUT/9999	3.0	6.0	.	.	.	.	.	.	.	OCEAN 475	ATM S 475	.		
						LAST UPDT: 3/22/16 APPROVED: 1/18/11										OCEAN 475	.
ESS	480	ADV ISO GEOCHEM	WIN/2013 - AUT/9999	3.0	18.0	.	.	.	.	.	Y	.	.	.	.		
						LAST UPDT:11/20/12 APPROVED:11/20/12										.	
ESS	482	ENV GEOCHEM LAB	SPR/2017 - AUT/9999	4.0	.	.	.	Y	.	Y	.	.	.	.	.		
						LAST UPDT:10/17/17 APPROVED: 6/07/16										.	
						FEE TYPE:1 \$50.00 BUDGET:069340 REV OBJ CD:943081										.	
ESS	489	HONORS SEMINAR	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.		
						LAST UPDT: 8/12/09 APPROVED: 6/13/06										.	
						COMMENT:MOVE COLLEGE										.	
ESS	490	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	492	TEACHING OUTREACH	AUT/2011 - AUT/9999	1.0-03.0	12.0	.	.	.	.	.	Y	.	.	.	.		
						LAST UPDT: 6/20/11 APPROVED: 2/25/98										.	
						COMMENT:CHG CREDITS										.	
ESS	495	NASA RSRCH 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	UNDERGRAD THESIS	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.	.	.		
						LAST UPDT: 8/12/09										.	
						COMMENT:MOVE COLLEGE										.	
ESS	499	UNDERGRAD RESEARCH	AUT/2009 - AUT/9999	0.0	15.0	Y	.	.	.	.	.	.	.	.	.		
						LAST UPDT: 8/12/09 APPROVED: 2/01/87										.	
						COMMENT:MOVE COLLEGE										.	

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ESS 501	GEOCHEMICAL SYSTEMS Geochemical Systems	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09 APPROVED: 6/13/06									
					COMMENT:MOVE COLLEGE									
ESS 502	THE SOLID EARTH The Solid Earth	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09 APPROVED: 6/13/06									
					COMMENT:MOVE COLLEGE									
ESS 503	SOLAR TERRESTR PHYS Introduction to Solar Terrestrial Physics	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09 APPROVED: 8/08/06									
					COMMENT:MOVE COLLEGE									
ESS 504	EARTH SURFACE The Earth Surface	AUT/2009 -	AUT/9999	3.0	.	.	.	Y	.	.	.	.	.	.
					LAST UPDT: 8/06/12 APPROVED: 6/13/06									
					COMMENT:MOVE COLLEGE FEE TYPE:1 \$500.00 BUDGET:069340 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	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09 APPROVED: 3/29/06									
					COMMENT:MOVE COLLEGE									
ESS 509	APPL FIELD MTHDS I Field Methods in Applied Geology I	WIN/2014 -	AUT/9999	3.0	.	.	.	Y	.	.	.	.	.	.
					LAST UPDT: 9/05/13 APPROVED: 4/16/13									
					COMMENT:ADD FEE FEE TYPE:1 \$500.00 BUDGET:069340 REV OBJ CD:943081									
ESS 510	APPL FIELD MTHDS II Field Methods in Applied Geology II	WIN/2014 -	AUT/9999	3.0	.	.	.	Y	.	.	.	.	.	.
					LAST UPDT: 9/05/13 APPROVED: 4/16/13									
					COMMENT:ADD FEE FEE TYPE:1 \$500.00 BUDGET:069340 REV OBJ CD:943081									
ESS 511	CONTINUUM MECHANICS Geophysical Continuum Mechanics	AUT/2010 -	AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 3/15/10 APPROVED: 1/24/95									
					COMMENT:CHG CREDITS									

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ESS 512	INTRO SEISMOLOGY Seismology	AUT/2011 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
					LAST UPDT:12/20/10 APPROVED: 1/24/95									
COMMENT:CHG TITLES, DESC, PREQ														
ESS 513	THE EARTH Geophysics: The Earth	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
					LAST UPDT:12/14/17 APPROVED: 1/24/95									
COMMENT:MOVE COLLEGE														
ESS 514	FLUIDS Geophysics: Fluids	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09 APPROVED: 1/24/95									
COMMENT:MOVE COLLEGE														
ESS 515	SPACE Geophysics: Space	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09 APPROVED: 1/24/95									
COMMENT:MOVE COLLEGE														
ESS 516	THE ATMOSPHERE Geophysics: The Atmosphere	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
					LAST UPDT:12/14/17 APPROVED: 1/24/95									
COMMENT:MOVE COLLEGE														
ESS 517	EARTH EVOLUTION Early Earth Evolution	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09 APPROVED: 2/28/03									
COMMENT:MOVE COLLEGE														
ESS 518	TECHNICAL COMM Technical Communication in Applied Geosciences	AUT/2013 -	AUT/9999	1.0	3.0	.	.	.	Y	.	.	.	.	.
					LAST UPDT: 8/20/13 APPROVED: 8/21/12									
COMMENT:ADD FEE					FEE TYPE:1 \$15.00 BUDGET:069340 REV OBJ CD:943081									
ESS 519	SCIENTIFIC WRITING Scientific Writing and Graphics	AUT/2013 -	AUT/9999	2.0	.	CR/NC	.	.	.	.	.	.	ESS 519 ATM S 519	.
					LAST UPDT: 3/21/13 APPROVED: 3/19/13									
					OCEAN 518									
ESS 520	APPLIC GIS EARTH SCI Application in Geographic Information Systems for the Earth Sciences	AUT/2016 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 6/08/16 APPROVED: 6/04/13									

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ESS 522	DATA COLCTN & ANLYS Geophysical Data Collection and Analysis	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.		.	
COMMENT:MOVE COLLEGE				LAST UPDT: 8/12/09 APPROVED:11/01/81												
ESS 523	INVERSE THEORY Geophysical Inverse Theory	SPR/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.		.	
				LAST UPDT: 7/23/15 APPROVED: 1/01/73												
ESS 524	HEAT&MASS FLOWMODEL Numerical Heat and Mass Flow Modeling in the Earth Sciences	SPR/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.		.	
				LAST UPDT: 2/17/10 APPROVED: 2/16/10												
ESS 525	TECTONIC GEOMORPH Tectonic Geomorphology	SPR/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.		.	
				LAST UPDT:11/19/15 APPROVED:11/17/15												
ESS 526	FLUVIAL GEOMORPH Fluvial Geomorphology	AUT/2013 - AUT/9999	5.0	.	.	.	.	. Y	.	.	.	.	.		.	
COMMENT:ADD FEE				FEE TYPE:1	\$40.00	BUDGET:069340	REV OBJ CD:943081									
ESS 527	HILLSLOPE GEOMORPH Hillslope Geomorphology	WIN/2014 - AUT/9999	5.0	.	.	.	.	. Y	.	.	.	.	.		.	
COMMENT:400-500, 1/10/14 FEE				FEE TYPE:1	\$40.00	BUDGET:069340	REV OBJ CD:943081									
ESS 528	SEDIMENT STRUCTURES Interpretation of Sedimentary Structures	AUT/2009 - AUT/9999	2.0-04.0	4.0	.	.	.	.	.	.	.	.	.		.	
COMMENT:MOVE COLLEGE				LAST UPDT:12/14/17 APPROVED:12/01/83												
ESS 529	FLD DYN HT/MS TRANS Principles of Fluid Dynamics, Heat, and Mass Transfer in Earth Sciences	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.		.	
COMMENT:MOVE COLLEGE				LAST UPDT: 8/12/09 APPROVED:12/01/89												
ESS 531	PHYSICS OF ICE Physics of Ice	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	ATM S 510 ATM S 510	.	
COMMENT:MOVE COLLEGE				LAST UPDT: 8/12/09												

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ESS 532	SNOW & ICE ON EARTH Snow and Ice on the Earth's Surface	SPR/2012 -	AUT/9999	3.0	.	.	.	.	.	.	ESS 532	ATM S 511	.
COMMENT:CHG TITLES					LAST UPDT: 4/18/11 APPROVED:11/01/81								
ESS 533	SNOW & ICE DYNAMICS Dynamics of Snow and Ice Masses	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	ESS 533	ATM S 512	.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09 APPROVED:11/01/81								
ESS 534	STRCTL GLACIOLOGY STRUCTURAL GLACIOLOGY	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	ESS 534	ATM S 513	.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09 APPROVED:11/01/81								
ESS 535	ICE AND CLIMATE Ice and Climate	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	ESS 535	ATM S 514	.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09 APPROVED:12/01/83								
ESS 537	ADVANCED MINERALOGY Advanced Mineralogy	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	ESS 537	MSE 518	.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09 APPROVED: 3/01/90								
ESS 538	PETROGEN IGN ROCKS Petrogenesis of Igneous Rocks	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.			.
COMMENT:MOVE COLLEGE					LAST UPDT:12/14/17 APPROVED:12/01/81								
ESS 540	ADV IGNEOUS PETROL Advanced Igneous Petrology	AUT/2009 -	AUT/9999	4.0	.	.	.	.	.	.			.
COMMENT:MOVE COLLEGE					LAST UPDT:12/14/17 APPROVED: 3/01/71								
ESS 541	APL FLUV GEOMORPH Applied Fluvial Geomorphology	SPR/2014 -	AUT/9999	4.0	.	.	.	Y	.	.			.
COMMENT:FEE 1-15					LAST UPDT: 1/02/15 APPROVED:11/19/13 FEE TYPE:1 \$35.00 BUDGET:069340 REV OBJ CD:943081								
ESS 542	SED DYN AND PHYSICS Sediment Dynamics and Boundary-Layer Physics	AUT/2013 -	AUT/9999	4.0	.	.	.	.	.	.	OCEAN 542	OCEAN 542	.
COMMENT:WAS ESS 526					LAST UPDT: 6/05/13 APPROVED: 2/28/94								

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DEPARTMENT: EARTH AND SPACE SCIENCES

COURSE CURRIC NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D -ALL U MAX P	D GRD SYS	D E HYPH	S H F U N E M R E	V L I P & N A S W	E E L E C M S N	W R Q T P R G	RESPONS COURSE	JOINT COURSES	O M I T
ESS 544	TSUNAMI HAZARDS SCI Applied Tsunami Hazard Science	SUM/2013 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.
COMMENT:WAS ESS 546					LAST UPDT: 4/16/13 APPROVED: 1/15/13									
ESS 545	ECON GEOL SED ROCKS ECONOMIC GEOLOGY OF SEDIMENTARY ROCKS	AUT/2009 -	AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT:12/11/12									
ESS 546	CONTINENT-MARG SED Continental-Margin Sedimentation	WIN/2014 -	AUT/9999	3.0	.	.	.	.	.	.	.	OCEAN 546	OCEAN 546	.
COMMENT:WAS ESS 527					LAST UPDT:11/20/13 APPROVED:11/21/05									
ESS 547	ENGINEERING GEOLOGY Engineering Geology: Methods and Application	AUT/2013 -	AUT/9999	4.0	.	.	.	Y	.	.	.	.	.	.
COMMENT:ADD FEE					LAST UPDT: 8/20/13 APPROVED: 2/28/12 FEE TYPE:1 \$40.00 BUDGET:069340 REV OBJ CD:943081									
ESS 548	GEODYNAMICS GEODYNAMICS	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT:10/28/13									
ESS 549	GEOMAGNETISM GEOMAGNETISM	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09 APPROVED: 2/28/94									
ESS 550	EMAG & POTEN FIELDS Electromagnetic and Potential Field Methods	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT:12/14/17 APPROVED: 2/28/94									
ESS 551	MINERAL PHYSICS Mineral Physics	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09 APPROVED: 2/28/94									
ESS 552	SOLUTION GEOCHEM SOLUTION GEOCHEMISTRY	AUT/2009 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT:12/11/12 APPROVED:11/01/75									

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DEPARTMENT: EARTH AND SPACE SCIENCES

COURSE CURRIC NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D -ALL U MAX P	D GRD SYS	D E HYPH	S H F U N E M R E	V L I P & N A S W	E E L C M T P R	W R G	RESPONS COURSE	JOINT COURSES	O M I T
ESS 553	ELEC BEAM ANALYSIS Electron Beam Microanalysis	AUT/2009 - AUT/9999	4.0		.	.	.	.	.	.	.			.
					LAST UPDT: 8/12/09 APPROVED:12/01/85									
COMMENT:MOVE COLLEGE														
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		.	.	.	.	.	.	.			.
					LAST UPDT: 8/12/09 APPROVED: 3/28/94									
COMMENT:MOVE COLLEGE														
ESS 556	PHYSICAL PETROLOGY PHYSICAL PETROLOGY	AUT/2009 - AUT/9999	3.0		.	.	.	.	.	.	.			.
					LAST UPDT: 8/12/09 APPROVED:12/01/89									
COMMENT:MOVE COLLEGE														
ESS 557	VERTE PALEO Vertebrate Paleontology	WIN/2014 - AUT/9999	5.0		.	.	.	Y	.	.	.	BIOL 557	BIOL 557	.
					LAST UPDT:11/06/13 APPROVED: 5/19/09									
COMMENT:CHG FEE					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	.
					LAST UPDT: 3/21/16 APPROVED: 6/20/07									
					ATM S 559									
COMMENT:MOVE JT COLLEGE														
ESS 560	COSMOGENIC NUCLIDES Cosmogenic Nuclides in Geomorphology	AUT/2009 - AUT/9999	3.0		.	.	.	.	.	.	.			.
					LAST UPDT: 8/12/09 APPROVED: 3/29/04									
COMMENT:MOVE COLLEGE														
ESS 562	OBSERVATNAL SEISMOL Observational Seismology	AUT/2009 - AUT/9999	1.0		18.0 Y	CR/NC	.	.	.	.	.			.
					LAST UPDT: 8/12/09									
COMMENT:MOVE COLLEGE														

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COURSE					OVER	D	D	S	H	F	V	L	E	E	W				
CURRIC	NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER	-ALL	U	GRD	E	U	N	E	P	&	N	C	M	S	N
					CREDITS	MAX	P	SYS	D	HYPH	M	R	E	A	S	W	T	P	R
ESS	563	THEOR SEISMOLOGY I Theoretical Seismology I	AUT/2009 -	AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09														
					COMMENT:MOVE COLLEGE														
ESS	564	THEOR SEISMOLOGY II Theoretical Seismology II	AUT/2009 -	AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09														
					COMMENT:MOVE COLLEGE														
ESS	565	LOW-FREQ SEISMOLOGY LOW-FREQUENCY SEISMOLOGY	AUT/2009 -	AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09														
					COMMENT:MOVE COLLEGE														
ESS	567	ENV GEOCHEM Environmental Geochemistry	WIN/2017 -	AUT/9999	4.0		.		.		.	.	.	.	Y	.	.	.	.
					LAST UPDT: 5/11/17 APPROVED: 6/07/16														
ESS	568	OCEANIC LITHOSPHERE Oceanic Lithosphere	AUT/2011 -	AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.
					LAST UPDT: 3/22/16 APPROVED: 2/21/95														
					COMMENT:CHG TITLES, DESC, PREQ														
ESS	573	CLOUD PHYS & DYNAM Cloud Microphysics and Dynamics	AUT/2009 -	AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.
					LAST UPDT: 3/21/16 APPROVED:11/06/92														
					COMMENT:MOVE COLLEGE														
ESS	574	ATMOS ELEC DYNAMICS ATMOSPHERIC ELECTRICAL DYNAMICS	AUT/2009 -	AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09														
					COMMENT:MOVE COLLEGE														
ESS	575	ROCKETS & INSTRUMNT Advanced Rockets and Instrumentation	WIN/2012 -	AUT/9999	2.0-04.0	12.0	.		.		.	.	Y	.	.	.	.	.	.
					LAST UPDT: 8/06/12 APPROVED: 2/17/09														
					COMMENT:CHG CREDITS, DESC														
					FEE TYPE:1 \$175.00 BUDGET:069340 REV OBJ CD:943081														
ESS	576	SPACE AND LAB PHYS Space and Laboratory Plasma Physics	AUT/2009 -	AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09														
					COMMENT:MOVE COLLEGE														

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COURSE CURRIC NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D -ALL U MAX P	D GRD SYS	D E HYPH	S H F U N E M R E	V L I P & N A S W	E E L C Q T P R G	W R S N	RESPONS COURSE	JOINT COURSES	O M I T
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: 8/12/09									
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 -	AUT/9999	3.0	18.0	.	.	.	.	.	.	.	.	.
					LAST UPDT:11/20/12 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														
ESS 585	PNW CLIMATE IMPACTS Climate Impacts on the Pacific Northwest	WIN/2012 -	AUT/9999	4.0	.	.	.	.	.	.	.	ATM S 585	ATM S 585	.
					LAST UPDT: 9/07/11 APPROVED: 1/30/03									
COMMENT:CHG JT STATUS														
ESS 586	CLIMATE SEMINAR Current Research in Climate Change	SPR/2010 -	AUT/9999	2.0	20.0	. CR/NC	.	.	.	.	.	ESS 586	ATM S 586	.
					LAST UPDT: 2/10/10 APPROVED: 2/25/02									
COMMENT:MOVE JT COLLEGE														
					OCEAN 586									

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COURSE		TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER	D		D	S	H	F	V	E	E	W					RESPONS	JOINT		O		
CURRIC	NUM				ALL	U	GRD	E	U	N	E	L	I	E	C	Q	T	M						I	T
					MAX	P	SYS	D	HYPH	M	R	E	A	S	W	T	P	R	G	COURSE	COURSES				
ESS	587	FUND CLIMATE CHANGE Fundamentals of Climate Change	AUT/2013 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	ESS	587	ATM S	587	.	
					LAST	UPDT:	3/21/13		APPROVED:	2/25/02													OCEAN	587	
					COMMENT:CHG TITLES, DESC																				
ESS	588	CARBON AND CLIMATE The Global Carbon Cycle and Climate	SPR/2010 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	OCEAN	588	ATM S	588	.	
					LAST	UPDT:	2/10/10		APPROVED:	2/25/02													OCEAN	588	
					COMMENT:MOVE JT COLLEGE																				
ESS	589	PALEOCLIMATOLOGY Paleoclimatology: Data, Modeling, and Theory	SPR/2010 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	ESS	589	ATM S	589	.	
					LAST	UPDT:	2/10/10		APPROVED:	2/25/02													OCEAN	589	
					COMMENT:MOVE JT COLLEGE																				
ESS	590	SPECIAL TOPICS Special Topics	AUT/2009 - AUT/9999	2.0-10.0	20.0	Y		.		.	.	.	.	.	.	.	.	.	.					.	
					LAST	UPDT:	8/12/09		APPROVED:	9/27/91															
					COMMENT:MOVE COLLEGE																				
ESS	592	PROF PRACTICE SEM Professional Practice in Applied Geosciences	AUT/2013 - AUT/9999	1.0	3.0	.		.		.	.	Y	.	.	.	.	.	.	.					.	
					LAST	UPDT:	8/20/13		APPROVED:	8/21/12															
					FEE TYPE:1		\$40.00		BUDGET:069340	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	.	
					LAST	UPDT:	2/10/10		APPROVED:	12/16/08													OCEAN	593	
					COMMENT:MOVE JT COLLEGE																				
ESS	594	INTRO ESS RSRCH Introduction to Earth and Space Sciences Research	AUT/2009 - AUT/9999	1.0-02.0	4.0	Y		.		.	.	.	.	.	.	.	.	.	.					.	
					LAST	UPDT:	8/12/09		APPROVED:	11/21/94															
					COMMENT:MOVE COLLEGE																				
ESS	595	ESS RSRCH METHODS Earth and Space Sciences Research Methods	AUT/2011 - AUT/9999	2.0	30.0	Y	CR/NC	.		.	.	.	.	.	.	.	.	.	.					.	
					LAST	UPDT:	6/20/11		APPROVED:	11/21/94															
					COMMENT:CHG GRADING																				
ESS	596	CLIMATE CAPSTONE Climate Science Capstone Project	SPR/2010 - AUT/9999	1.0-05.0	5.0	.		.		.	.	.	.	.	.	.	.	.	.	ATM S	596	ATM S	596	.	
					LAST	UPDT:	2/10/10		APPROVED:	12/16/08													OCEAN	596	
					COMMENT:MOVE JT COLLEGE																				

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COURSE CURRIC NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D -ALL U MAX	D GRD P SYS	S H F U N E M R E	V L I P & A S W T P R G	R L E C M S N	RESPONS COURSE	JOINT COURSES	
ESS 597	APP GEOSCI INVESTGN Applied Geoscience Investigation	SUM/2016 - AUT/9999	1.0-05.0	10.0 . CR/NC	.			.			.
				LAST UPDT: 2/23/16 APPROVED: 2/23/16							
ESS 599	SEMINAR Seminar	AUT/2009 - AUT/9999	1.0	24.0 Y CR/NC	.			.			.
				LAST UPDT: 5/18/12 APPROVED: 2/01/77							
	COMMENT:MOVE COLLEGE										
ESS 600	INDEPNDNT STDY/RSCH Independent Study or Research	AUT/2009 - AUT/9999	0.0	999.0 . CR/NC	.	11		.			.
				LAST UPDT: 4/19/10 APPROVED: 2/01/78							
	COMMENT:MOVE COLLEGE										
ESS 601	INTERNSHIP Internship	SUM/2013 - AUT/9999	0.0	999.0 .	.			.			.
				LAST UPDT: 4/16/13 APPROVED: 4/16/13							
ESS 700	MASTERS THESIS Master's Thesis	AUT/2009 - AUT/9999	0.0	999.0 .	.	11		.			.
				LAST UPDT: 4/19/10 APPROVED: 1/01/70							
	COMMENT:MOVE COLLEGE										
ESS 800	DOCTORAL DISSERTATN Doctoral Dissertation	AUT/2009 - AUT/9999	0.0	999.0 .	.	11		.			.
				LAST UPDT: 4/19/10 APPROVED: 1/01/70							
	COMMENT:MOVE COLLEGE										