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 Seattle CAMPUS

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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		E	U N E	P	N	C	M	S	N			
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				LAST UPDT: 6/11/19 APPROVED: 9/24/01													
ESS 103	MINERALS AND GEMS Minerals and Gems	AUT/2009 - AUT/9999	3.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE				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	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE				LAST UPDT: 8/06/12 APPROVED: 1/30/03													
FEE TYPE:1 \$10.00 BUDGET:069340 REV OBJ CD:943081				LAST UPDT: 6/11/19 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				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	.	.	.	.	.	.
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	ASTBIO115
COMMENT:MOVE JT COLLEGE				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 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				
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	.	.	.	.	.
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 -	AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.
LAST UPDT: 1/10/19 APPROVED: 1/01/82																
FEE TYPE:1 \$20.00 BUDGET:068346 REV OBJ CD:943081																
ESS 211	PHYS PROC EARTH Physical Processes of the Earth	WIN/2018 -	SUM/2019	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.
LAST UPDT: 4/03/19 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	AUT/2019 -	AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.
LAST UPDT: 4/03/19 APPROVED: 3/17/97																
FEE TYPE:1 \$26.00 BUDGET:069340 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	C				M	S	N
ESS 212	EARTH MATERIALS Earth Materials and Processes	WIN/2018 - SUM/2019	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 4/02/19 APPROVED: 9/22/97													
				FEE TYPE:1 \$75.00 BUDGET:068347 REV OBJ CD:943081													
ESS 212	EARTH MATERIALS Earth Materials and Processes	AUT/2019 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 4/02/19 APPROVED: 9/22/97													
				FEE TYPE:1 \$75.00 BUDGET:068347 REV OBJ CD:943081													
ESS 213	EVOLUTION OF EARTH Evolution of the Earth	WIN/2018 - SUM/2019	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 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 301	GEOL OF NORTHWEST Geology of the Northwest	AUT/2009 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 1/10/19													
				FEE TYPE:1 \$25.00 BUDGET:068350 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: 1/30/18 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													

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				-ALL U	GRD		U N E	P & A	N C M S N	E C Q T							
ESS 314	GEOPHYSICS Geophysics	SPR/2017 - SUM/2019	5.0	Y	
LAST UPDT: 4/03/19 APPROVED:10/29/03																	
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 - AUT/9999	5.0	.	.	.	Y	.	Y	.	.	.	.	ESS 315 ENVIR 313		.
LAST UPDT: 1/10/19 APPROVED: 3/01/76																	
COMMENT:MOVE COLLEGE FEE TYPE:1 \$20.00 BUDGET:068353 REV OBJ CD:943081																	
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 - 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	FIELD GEOL WITH GIS Field Geology with GIS	SUM/2019 - AUT/9999	12.0	.	.	.	.	.	.	Y	.	.	.			.
LAST UPDT: 1/24/19 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																	

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				-ALL U	GRD		E	U N E	P & N C M S N	A S W T P R G					
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	.	.			.
	COMMENT:MOVE COLLEGE			LAST UPDT: 1/10/19 APPROVED: 6/01/81 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											
ESS 424	WATER IN ENVIRONMNT Water in the Environment	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	Y	.	.	ESS 424 PHYS 460	ATM S 460	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 6/11/19 APPROVED: 2/25/00											
ESS 425	TECTONIC GEOMORPH Tectonic Geomorphology	SUM/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.			.
				LAST UPDT:10/17/17 APPROVED:11/17/15											
ESS 426	FLUVIAL GEOMORPH Fluvial Geomorphology	AUT/2012 - AUT/9999	5.0	.	.	.	.	Y	.	.	.	.			.
	COMMENT:CHG PREQ			LAST UPDT: 1/10/19 APPROVED: 1/01/79 FEE TYPE:1 \$40.00 BUDGET:068356 REV OBJ CD:943081											
ESS 427	HILLSLOPE GEOMORPH Hillslope Geomorphology	AUT/2013 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.			.
	COMMENT:ADD FEE			LAST UPDT: 1/10/19 APPROVED: 1/01/79 FEE TYPE:1 \$40.00 BUDGET:068357 REV OBJ CD:943081											
ESS 428	LANDSCAPE EVOLUTION LANDSCAPE EVOLUTION	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	Y	.	.			.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09 APPROVED: 2/25/98											
ESS 431	PRINS OF GLACIOLOGY Principles of Glaciology	AUT/2012 - AUT/9999	4.0	.	.	.	.	Y	.	Y	.	.			.
	COMMENT:UPDATE PREQ			LAST UPDT: 1/10/19 APPROVED: 6/01/89 FEE TYPE:1 \$17.00 BUDGET:068358 REV OBJ CD:943081											

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				-ALL U	GRD		E	U N E	P & N		C M S N	A S W T P R G					
ESS 432	GLACIAL GEOLOGY Glacial Geology	AUT/2009 - AUT/9999	5.0	Y
	COMMENT:MOVE COLLEGE			LAST UPDT:12/14/17		APPROVED:12/01/79											
ESS 433	ENV OF GLACIAL AGES Environmental Change in the Glacial Ages	AUT/2010 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
	COMMENT:CHG CREDITS, DROP JT STATUS			LAST UPDT: 4/19/10		APPROVED:12/01/85											
ESS 435	GLACIAL PERIGLACIAL Glacial-Periglacial Geomorphology NW	SUM/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
				LAST UPDT: 6/11/19		APPROVED:12/21/10											
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 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09													
ESS 440	PETRO/PETRL META RK Petrography and Petrology of Metamorphic Rocks	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT:12/14/17													
ESS 441	PETRG/PETRL SED RCK Petrology and Petrography of Sedimentary Rocks	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09		APPROVED:12/01/81											
ESS 445	GEOL OF ORE DEPOSIT Geology of Ore Deposits	AUT/2009 - AUT/9999	5.0	.	.	.	.	Y	.	Y	.	.	.	.	.	.	.
	COMMENT:MOVE COLLEGE			LAST UPDT:12/14/17		APPROVED: 6/01/77		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	.	.	.	.	.	.	.	.	.
	COMMENT:ADD FEE			LAST UPDT: 1/10/19		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	N	C	M	S	N			
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: 3/22/18 APPROVED: 1/01/82 FEE TYPE:1 \$30.00 BUDGET:069340 REV OBJ CD:943081													

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				-ALL	U		GRD	E	U	N	E	P	&	N				C
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	.	.	.	.	.	.	.
				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	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.
				LAST UPDT:12/14/17		APPROVED:10/01/74												
				COMMENT:MOVE COLLEGE														
ESS 460	COSMOGENIC NUCLIDES Cosmogenic Nuclides in Geomorphology	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 8/12/09		APPROVED: 3/29/04												
				COMMENT:MOVE COLLEGE														
ESS 461	GEOLOGICAL TIME Geological Time	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.
				LAST UPDT: 6/11/19		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: 1/10/19		APPROVED: 2/25/98												
				FEE TYPE:1 \$150.00 BUDGET:068361 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: 2/06/18		APPROVED:12/01/99												
				COMMENT:UPDATE PREQ														

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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			
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 .													
				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 .													
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09		APPROVED:10/29/90											
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													
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09		APPROVED: 2/01/87											
ESS 501	GEOCHEMICAL SYSTEMS Geochemical Systems	AUT/2009 - AUT/9999	3.0	.													
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09		APPROVED: 6/13/06											
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	.													
	COMMENT:MOVE COLLEGE			LAST UPDT: 1/10/19		APPROVED: 6/13/06											

FEE TYPE:1 \$50.00 BUDGET:068364 REV OBJ CD:943081

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CURRIC	NUM	COURSE TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	O V E R D D S H F L I E E W -ALL U GRD E U N E P & N C M S N M A X P S Y S D H Y P H M R E A S W T P R G											R E S P O N S E COURSE	J O I N T COURSES	O M I T			
					RESPONS	JOINT	O	M	I	T											
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
					LAST UPDT: 1/10/19 APPROVED: 4/16/13																
					COMMENT:ADD FEE																
					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
					LAST UPDT: 1/10/19 APPROVED: 4/16/13																
					COMMENT:ADD FEE																
					FEE TYPE:1 \$500.00 BUDGET:068366 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																
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	SUM/2018 - AUT/9999	3.0
					LAST UPDT: 2/28/18 APPROVED: 1/24/95																

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CURRIC NUM	COURSE TITLE	EFFECTIVE	QUARTERS	CREDITS	OVER D D S H F V L E W										RESPONS	JOINT	O				
					-ALL	U	GRD	E	U	N	E	P	N	C				M	S	N	R	I	T
ESS 526	FLUVIAL GEOMORPH Fluvial Geomorphology	AUT/2013 -	AUT/9999	5.0	Y
					LAST UPDT: 1/10/19 APPROVED: 6/04/13 COMMENT:ADD FEE FEE TYPE:1 \$40.00 BUDGET:068367 REV OBJ CD:943081																
ESS 527	HILLSLOPE GEOMORPH Hillslope Geomorphology	WIN/2014 -	AUT/9999	5.0	Y
					LAST UPDT: 1/10/19 APPROVED:11/19/13 COMMENT:400-500, 1/10/14 FEE FEE TYPE:1 \$40.00 BUDGET:068368 REV OBJ CD:943081																
ESS 528	SEDIMENT STRUCTURES Interpretation of Sedimentary Structures	AUT/2009 -	AUT/9999	2.0-04.0	4.0
					LAST UPDT:12/14/17 APPROVED:12/01/83 COMMENT:MOVE COLLEGE																
ESS 529	FLD DYN HT/MS TRANS Principles of Fluid Dynamics, Heat, and Mass Transfer in Earth Sciences	AUT/2009 -	AUT/9999	3.0
					LAST UPDT: 8/12/09 APPROVED:12/01/89 COMMENT:MOVE COLLEGE																
ESS 531	PHYSICS OF ICE Physics of Ice	AUT/2009 -	AUT/9999	3.0	ATM S 510	ATM S 510	.
					LAST UPDT: 8/12/09																
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	.
					LAST UPDT: 4/18/11 APPROVED:11/01/81 COMMENT:CHG TITLES																
ESS 533	SNOW & ICE DYNAMICS Dynamics of Snow and Ice Masses	AUT/2009 -	AUT/9999	3.0	ESS 533	ATM S 512	.
					LAST UPDT: 8/12/09 APPROVED:11/01/81 COMMENT:MOVE COLLEGE																
ESS 534	STRCTL GLACIOLOGY STRUCTURAL GLACIOLOGY	AUT/2009 -	AUT/9999	3.0	ESS 534	ATM S 513	.
					LAST UPDT: 8/12/09 APPROVED:11/01/81 COMMENT:MOVE COLLEGE																
ESS 535	ICE AND CLIMATE Ice and Climate	AUT/2009 -	AUT/9999	3.0	ESS 535	ATM S 514	.
					LAST UPDT:10/17/18 APPROVED:12/01/83 COMMENT:MOVE COLLEGE																

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				-ALL U	GRD		E	U N E	P & A	N S W	C M T	E C P	Q S R	G			
ESS 537	ADVANCED MINERALOGY Advanced Mineralogy	AUT/2009 - AUT/9999	3.0	ESS 537 MSE	518	.	
	COMMENT:MOVE COLLEGE																
ESS 538	PETROGEN IGN ROCKS Petrogenesis of Igneous Rocks	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:MOVE COLLEGE																
ESS 540	ADV IGNEOUS PETROL Advanced Igneous Petrology	AUT/2009 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:MOVE COLLEGE																
ESS 541	APL FLUV GEOMORPH Applied Fluvial Geomorphology	SPR/2014 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.			.
	COMMENT:FEE 1-15																
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																
ESS 544	TSUNAMI HAZARDS SCI Applied Tsunami Hazard Science	SUM/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:WAS ESS 546																
ESS 545	ECON GEOL SED ROCKS ECONOMIC GEOLOGY OF SEDIMENTARY ROCKS	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:MOVE COLLEGE																
ESS 546	CONTINENT-MARG SED Continental-Margin Sedimentation	WIN/2014 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	OCEAN 546	OCEAN 546	.
	COMMENT:WAS ESS 527																
ESS 547	ENGINEERING GEOLOGY Engineering Geology: Methods and Application	AUT/2013 - AUT/9999	4.0	.	.	.	.	Y	.	.	.	.	.			.
	COMMENT:ADD FEE																

LAST UPDT: 1/10/19 APPROVED: 2/28/12
 FEE TYPE:1 \$40.00 BUDGET:068369 REV OBJ CD:943081

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				-ALL	U		GRD	E	U	N	E	P	&	N			
ESS 557	VERTE PALEO Vertebrate Paleontology	WIN/2014 - AUT/9999	5.0	Y	BIOL 557	BIOL 557	.	
	COMMENT:CHG FEE																
ESS 558	GRAD PALEOBIO RES Introduction to Graduate Research in Paleobiology	AUT/2012 - AUT/9999	1.0	.	CR/NC	.	.	.	.	.	.	.	.	BIOL 555	BIOL 555	.
ESS 559	CLIMATE MODELING Climate Modeling	SPR/2010 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	ATM S 559	OCEAN 558	.
	COMMENT:MOVE JT COLLEGE														ATM S 559		
ESS 560	COSMOGENIC NUCLIDES Cosmogenic Nuclides in Geomorphology	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:MOVE COLLEGE																
ESS 562	OBSERVATNAL SEISMOL Observational Seismology	AUT/2009 - AUT/9999	1.0	18.0	Y	CR/NC	.	.	.	.	.	.	.			.
	COMMENT:MOVE COLLEGE																
ESS 563	THEOR SEISMOLOGY I Theoretical Seismology I	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:MOVE COLLEGE																
ESS 564	THEOR SEISMOLOGY II Theoretical Seismology II	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
	COMMENT:MOVE COLLEGE																
ESS 565	LOW-FREQ SEISMOLOGY LOW-FREQUENCY SEISMOLOGY	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.			.
	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

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				-ALL MAX	U P	GRD SYS	E D	U N E M R E	P & A	N S W	C T P	M S R			
ESS 581	PLANET ATMOS Planetary Atmospheres	AUT/2009 - AUT/9999	3.0	ASTR 555	ASTR 555	.	
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09				APPROVED: 9/01/77					ATM S 555		
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	.
	COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09				APPROVED: 9/01/77							
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		

