

DATE: 07-03-2017
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UNIVERSITY OF WASHINGTON STUDENT RECORDS SYSTEM
DETAILED CURRICULUM REPORT
Seattle CAMPUS

REPORT: SR21010-R-01 K
PAGE: 994

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

COURSE CURRIC NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D -ALL U MAX P	D GRD SYS	D E D 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 100	DINOSAURS Dinosaurs	AUT/2009 -	AUT/9999	2.0	.	.	.	.	.	Y	.	.	.	.
					LAST UPDT: 8/12/09 APPROVED:12/01/85									
COMMENT:MOVE COLLEGE														
ESS 101	INTRO TO GEOL SCI Introduction to Geological Sciences	AUT/2009 -	AUT/9999	5.0	.	.	.	Y	.	Y	.	.	.	.
					LAST UPDT: 8/06/12 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									
COMMENT:END INTIAL DL														
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									
COMMENT:MOVE COLLEGE														
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									
COMMENT:MOVE COLLEGE														
ESS 105	PROCESSES & HAZARDS The Earth: Its Processes and Hazards	AUT/2009 -	AUT/9999	5.0	.	.	.	Y	.	Y	.	.	.	.
					LAST UPDT: 8/06/12 APPROVED: 4/28/03									
					FEE TYPE:1 \$15.00 BUDGET:069340 REV OBJ CD:943081									
COMMENT:MOVE COLLEGE														
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									
COMMENT:MOVE JT COLLEGE														
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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ESS 201	EARTH CLIMATE The Earth System and Climate	SPR/2017 -	AUT/9999	5.0	.	.	.	.	.	Y	.	.	.	.
LAST UPDT:11/30/16 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:11/19/14 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	SPR/2017 -	AUT/2017	5.0	.	.	.	Y	.	Y	.	.	.	.
LAST UPDT: 6/21/17 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	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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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 S T P	W R Q T N G	RESPONS COURSE	JOINT COURSES	O M I T
ESS 212	EARTH MATERIALS Earth Materials and Processes	SPR/2017	- AUT/2017	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 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	SUM/2017	- AUT/2017	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 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		ESS 230 OCEAN 230	.		.
LAST UPDT: 8/06/12 APPROVED: 4/28/03 COMMENT:MOVE JT COLLEGE FEE TYPE:1 \$50.00 BUDGET:069340 REV OBJ CD:943081														
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 COMMENT:MOVE COLLEGE FEE TYPE:1 \$25.00 BUDGET:069340 REV OBJ CD:943081														
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 COMMENT:MOVE COLLEGE FEE TYPE:1 \$20.00 BUDGET:069340 REV OBJ CD:943081														
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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COURSE CURRIC NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	D U P	GRD SYS	D E HYPH	S H F U N E M R E	P & A	I N C S W T	E C Q T P R G	RESPONS COURSE	JOINT COURSES	O M I T	
ESS 304	NW VOLC AND GLAC Volcanoes and Glaciers of the Pacific Northwest	AUT/2009 - AUT/9999	5.0	.	.	.	.	. Y . . .	. . Y	.	.	.	.	.	
				LAST UPDT: 8/06/12 APPROVED:12/01/83 FEE TYPE:1 \$39.00 BUDGET:069340 REV OBJ CD:943081											
COMMENT:MOVE COLLEGE															
ESS 305	GEOLOG 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															
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	SPR/2017 - AUT/2017	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 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	SPR/2017 - AUT/2017	5.0	.	.	.	.	. . .	. . Y	.	.	.	.	.	
				LAST UPDT: 6/21/17 APPROVED: 2/25/98											
ESS 312	GEOCHEMISTRY Geochemistry	WIN/2018 - AUT/9999	5.0	.	.	.	.	. . .	. . Y	.	.	.	.	.	
				LAST UPDT: 6/21/17 APPROVED: 2/25/98											
ESS 313	GEOBIOLOGY Geobiology	SPR/2017 - AUT/2017	5.0	.	.	.	.	. Y . . .	. . Y	.	.	.	.	.	
				LAST UPDT: 6/15/17 APPROVED: 2/25/98 FEE TYPE:1 \$40.00 BUDGET:069340 REV OBJ CD:943081											

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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		ESS 315 ENVIR 313	.	.
COMMENT:MOVE COLLEGE 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		ESS 320 ENVIR 320	.	.
COMMENT: DING LAST UPDT: 8/05/14 APPROVED:12/21/10 FEE TYPE:1 \$30.00 BUDGET:069340 REV OBJ CD:943081														
ESS 326	GEOMORPHOLOGY Geomorphology	AUT/2012 -	AUT/9999	5.0	.	.	.	. . Y	.	. . Y	.			.
COMMENT:CHG PREQ LAST UPDT: 9/28/12 APPROVED: 2/25/98 FEE TYPE:1 \$30.00 BUDGET:069340 REV OBJ CD:943081														
ESS 345	MINERAL DEPOSITS The Environment of Fuel and Mineral Deposits	SPR/2012 -	AUT/9999	3.0	.	.	.	. . Y	.	. Y Y	.			.
COMMENT:EMAIL PREQ CHG LAST UPDT: 8/06/12 APPROVED: 9/24/01 FEE TYPE:1 \$50.00 BUDGET:069340 REV OBJ CD:943081														
ESS 400	FIELD GEOLOGY Field Geology	AUT/2009 -	AUT/9999	12.0	.	.	.	. . .	.	. . Y	.			.
COMMENT:MOVE COLLEGE LAST UPDT: 8/12/09 APPROVED: 3/01/89														
ESS 401	REGIONAL GEOL PNW Regional Geology of the Pacific Northwest	AUT/2009 -	AUT/9999	3.0	.	.	.	. . Y	.	. . Y	.			.
COMMENT:MOVE COLLEGE LAST UPDT: 8/06/12 APPROVED: 5/20/96 FEE TYPE:1 \$45.00 BUDGET:069340 REV OBJ CD:943081														
ESS 402	INTL FIELD GEOLOGY International Field Geology	AUT/2009 -	AUT/9999	3.0-12.0	12.0	.	.	. . .	.	. . Y	.			.
COMMENT:MOVE COLLEGE LAST UPDT: 8/12/09 APPROVED:12/01/99														

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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: 8/12/09 APPROVED: 2/25/02														
COMMENT:MOVE COLLEGE														
ESS 408	GREAT ISSUES Great Geological Issues	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.
LAST UPDT: 8/12/09 APPROVED: 3/29/06														
COMMENT:MOVE COLLEGE														
ESS 410	MAR GEOL AND GEOPHY Marine Geology and Geophysics	AUT/2010 -	AUT/9999	4.0	.	.	.	Y	.	Y	.	.	OCEAN 410 OCEAN 410	.
LAST UPDT: 7/23/15														
COMMENT:CHG DESC, PREQ FEE TYPE:1 \$50.00 BUDGET:099670 REV OBJ CD:943081														
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: 8/12/09														
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: 8/12/09 APPROVED:10/12/72														
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ESS 418	GEOSCIENCE COMM Geoscience Communication	SPR/2017 -	AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 2/03/17 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: 8/12/09 APPROVED: 9/20/99 COMMENT:MOVE COLLEGE														
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 COMMENT:MOVE COLLEGE PHYS 460														
ESS 425	TECTONIC GEOMORPH Tectonic Geomorphology	SUM/2017 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 3/22/17 APPROVED:11/17/15														
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	.	.	.	.
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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	431	PRINS OF GLACIOLOGY Principles of Glaciology	AUT/2012 -	AUT/9999	4.0	.	.	.	.	Y	.	.	Y	.	.	.	.	.	.		
						LAST UPDT: 9/28/12 APPROVED: 6/01/89															
						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: 8/12/09 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															
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: 8/12/09															
						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: 8/06/12 APPROVED: 6/01/77															
						FEE TYPE:1 \$50.00 BUDGET:069340 REV OBJ CD:943081															
						COMMENT:MOVE COLLEGE															

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COURSE		TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D	D	S H F	V	E E	W	RESPONS	JOINT	M	
CURRIC	NUM					-ALL U	GRD	E	U N E	L I	L C Q T				R
						MAX	P	SYS	D	HYPH	M R E	A S W T P R G	COURSE	COURSES	T
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	BIOL	475	BIOL	475 .
					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	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: 8/06/12										
COMMENT:MOVE COLLEGE					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: 3/22/17	APPROVED: 1/01/82									
COMMENT:CHG FEE					FEE TYPE:1	\$30.00	BUDGET:069340 REV OBJ CD:943081								

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						-ALL	U	GRD	E	U	N	E	P	I	E	C				Q	T				
						MAX	P	SYS	D	HYPH	M	R	E	A	S	W	T	P	R	G				I	T
ESS	457	ENV GEOCHEM Environmental Geochemistry	WIN/2017	- AUT/9999	4.0	.	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT:11/30/16										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: 8/12/09										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: 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																			

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COURSE		TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER	D	D	S	H	F	V	L	E	E	W	R	RESPONS		JOINT		M	
CURRIC	NUM				MAX	ALL	U	GRD	E	U	N	E	L	I	E	C	Q	T	COURSE	COURSES	I	T
ESS	466	APPLIED SEISMOLOGY APPLIED SEISMOLOGY	AUT/2009 - AUT/9999	2.0	.	.	.	.	.	.	.	Y	.	.	.	.						.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09 APPROVED: 1/01/88																	
ESS	467	SEIS EXPLR & STRAT Seismic Exploration and Stratigraphy	SPR/2017 - AUT/9999	5.0	.	.	.	.	.	.	.	Y	.	.	.	.	ESS	467	OCEAN 412			.
					LAST UPDT: 1/12/17 APPROVED:12/01/89																	
ESS	471	INTRO TO SPACE PHYS Introduction to Space Physics	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	Y	.	.	.	.						.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09 APPROVED: 9/27/91																	
ESS	472	ROCKETS & INSTRUMNT Rockets and Instrumentation	WIN/2012 - AUT/9999	2.0-04.0	12.0	.	.	.	.	Y	.	.	.	.	.	.						.
COMMENT:CHG CREDITS, DESC					LAST UPDT: 8/06/12 APPROVED: 2/21/07																	
					FEE TYPE:1 \$175.00 BUDGET:069340 REV OBJ CD:943081																	
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		.
					LAST UPDT: 3/22/16 APPROVED: 1/18/11																	
					OCEAN 475																	
ESS	480	ADV ISO GEOCHEM Advanced Methods in Isotope Geochemistry	WIN/2013 - AUT/9999	3.0	18.0	.	.	.	.	.	.	Y	.	.	.	.						.
					LAST UPDT:11/20/12 APPROVED:11/20/12																	
ESS	482	ENV GEOCHEM LAB Environmental Geochemistry Laboratory	SPR/2017 - AUT/9999	4.0	.	.	.	.	Y	.	.	Y	.	.	.	.						.
					LAST UPDT: 5/11/17 APPROVED: 6/07/16																	
					FEE TYPE:1 \$50.00 BUDGET:069340 REV OBJ CD:943081																	
ESS	489	HONORS SEMINAR Honors Seminar	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.						.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09 APPROVED: 6/13/06																	
ESS	490	SPECIAL TOPICS Special Topics	AUT/2009 - AUT/9999	1.0-10.0	20.0	Y	.	.	.	.	.	Y	.	.	.	.						.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09 APPROVED: 9/27/91																	

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COURSE		TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D	D	S H F	V	E E	W	RESPONS	JOINT	M	
CURRIC	NUM					MAX	U	GRD	E	U N E	L I				P & N C
ESS	492	TEACHING OUTREACH Undergraduate Teaching Experience and Outreach	AUT/2011 - AUT/9999	1.0-03.0	12.0	.	.	.	.	Y	.	.	.	.	
COMMENT:CHG CREDITS					LAST UPDT: 6/20/11			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	.	.	.	.	
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09			APPROVED:10/29/90							
ESS	498	UNDERGRAD THESIS Undergraduate Thesis	AUT/2009 - AUT/9999	5.0	.	.	.	.	.	Y	.	.	.	.	
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09										
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	.	.	.	Y	.	.	.	.	.	.	
COMMENT:MOVE COLLEGE					LAST UPDT: 8/06/12			APPROVED: 6/13/06							
					FEE TYPE:1			\$50.00 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							

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COURSE CURRIC NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D -ALL U MAX P	GRD SYS	D E D HYPH	S H F U N E M R E	V L I P & N A S W	E E L C M S T P	W R Q T N G	RESPONS COURSE	JOINT COURSES	O M I T
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									
					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									
					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														
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: 8/12/09 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: 8/12/09 APPROVED: 1/24/95									
COMMENT:MOVE COLLEGE														

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CURRIC	COURSE NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D		D	S H F	V	L I	E E	C Q	W R	RESPONS	JOINT	O	
						-ALL	U											GRD
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												
ESS	522	DATA COLCTN & ANLYS Geophysical Data Collection and Analysis	AUT/2009 - AUT/9999	3.0		.		.	.	.	.	.	.	.			.	
						LAST UPDT: 8/12/09 APPROVED:11/01/81												
						COMMENT:MOVE COLLEGE												
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	.	.	.	.			.	
						LAST UPDT: 8/20/13 APPROVED: 6/04/13												
						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	.	.	.	.			.	
						LAST UPDT: 1/10/14 APPROVED:11/19/13												
						COMMENT:400-500, 1/10/14 FEE FEE TYPE:1 \$40.00 BUDGET:069340 REV OBJ CD:943081												

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ESS 528	SEDIMENT STRUCTURES Interpretation of Sedimentary Structures	AUT/2009 - AUT/9999	2.0-04.0	4.0	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09		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									
COMMENT:MOVE COLLEGE														
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: 8/12/09		APPROVED:12/01/83							
COMMENT:MOVE COLLEGE														
ESS 537	ADVANCED MINERALOGY Advanced Mineralogy	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	ESS 537	MSE 518	.
					LAST UPDT: 8/12/09		APPROVED: 3/01/90							
COMMENT:MOVE COLLEGE														
ESS 538	PETROGEN IGN ROCKS Petrogenesis of Igneous Rocks	AUT/2009 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09		APPROVED:12/01/81							
COMMENT:MOVE COLLEGE														

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COURSE CURRIC	NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D -ALL U MAX	D GRD SYS	D HYPH	S H F U N E M R E	V L I & A S W T P R G	E E C Q T N S N	RESPONS COURSE	JOINT COURSES	O M I T
ESS	540	ADV IGNEOUS PETROL Advanced Igneous Petrology	AUT/2009 - AUT/9999	4.0	.	.		. . .					.
					LAST UPDT: 8/12/09 APPROVED: 3/01/71								
COMMENT:MOVE COLLEGE													
ESS	541	APL FLUV GEOMORPH Applied Fluvial Geomorphology	SPR/2014 - AUT/9999	4.0	.	.		. . Y					.
					LAST UPDT: 1/02/15 APPROVED:11/19/13								
COMMENT:FEE 1-15					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	.
					LAST UPDT: 6/05/13 APPROVED: 2/28/94								
COMMENT:WAS ESS 526													
ESS	544	TSUNAMI HAZARDS SCI Applied Tsunami Hazard Science	SUM/2013 - AUT/9999	4.0	.	.		. . .					.
					LAST UPDT: 4/16/13 APPROVED: 1/15/13								
COMMENT:WAS ESS 546													
ESS	545	ECON GEOL SED ROCKS ECONOMIC GEOLOGY OF SEDIMENTARY ROCKS	AUT/2009 - AUT/9999	5.0	.	.		. . .					.
					LAST UPDT:12/11/12								
COMMENT:MOVE COLLEGE													
ESS	546	CONTINENT-MARG SED Continental-Margin Sedimentation	WIN/2014 - AUT/9999	3.0	.	.		. . .			OCEAN 546	OCEAN 546	.
					LAST UPDT:11/20/13 APPROVED:11/21/05								
COMMENT:WAS ESS 527													
ESS	547	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	548	GEODYNAMICS GEODYNAMICS	AUT/2009 - AUT/9999	3.0	.	.		. . .					.
					LAST UPDT:10/28/13								
COMMENT:MOVE COLLEGE													
ESS	549	GEOMAGNETISM GEOMAGNETISM	AUT/2009 - AUT/9999	3.0	.	.		. . .					.
					LAST UPDT: 8/12/09 APPROVED: 2/28/94								
COMMENT:MOVE COLLEGE													

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ESS 550	EMAG & POTEN FIELDS Electromagnetic and Potential Field Methods	AUT/2009 - AUT/9999	3.0		.	.	.	.	.	.			.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09 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								
ESS 553	ELEC BEAM ANALYSIS Electron Beam Microanalysis	AUT/2009 - AUT/9999	4.0		.	.	.	.	.	.			.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09 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: 8/12/09 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								

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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									
					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	.	.	.	.	.	.	.	ESS 576 A A	556	.
					LAST UPDT: 8/12/09									
COMMENT:MOVE COLLEGE														
ESS 577	ADV SPACE PLSM PHYS Advanced Space Plasma Physics	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.			.
					LAST UPDT: 8/12/09									
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: 8/12/09 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					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									

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COURSE		TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	ALL	U	GRD	E	U	N	E	P	&	N	C	M	S	N	RESPONS	JOINT			M	
CURRIC	NUM				MAX	P	SYS	D	HYPH	M	R	E	A	S	W	T	P	R	G	COURSE	COURSES	I	T	
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	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: 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	.	
COMMENT:MOVE JT COLLEGE					LAST UPDT: 2/10/10 APPROVED:12/16/08																			
																				OCEAN	593			

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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														
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	INDEPN DNT 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														