

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

UNIVERSITY OF WASHINGTON STUDENT RECORDS SYSTEM
DETAILED CURRICULUM REPORT
Seattle CAMPUS

REPORT: SR21010-R-01 K
PAGE: 991

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 S T P	W R Q T S N 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	GEOLOGY & SOCIETY Introduction to Geology and Societal Impacts	WIN/2018 -	AUT/9999	5.0	.	.	.	Y	.	Y	Y	.	.	.
					LAST UPDT: 8/07/18 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:12/14/17 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	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	.	.	.	.
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	.	.	.	.
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														
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														

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					MAX	P	D HYPH	M R E	P & N A S W T	P R G				
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: 1/30/18 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														
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 COMMENT:MOVE COLLEGE FEE TYPE:1 \$39.00 BUDGET:069340 REV OBJ CD:943081														
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 COMMENT:MOVE COLLEGE FEE TYPE:1 \$30.00 BUDGET:069340 REV OBJ CD:943081														
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														

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ESS 307	ESS DIV OUTREACH Diversity Outreach Program in Earth and Space Sciences	SPR/2018 - AUT/9999	3.0-05.0		.	.	.	.	.	Y	Y	.	.	.
LAST UPDT: 2/05/18 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	.	ESS 315 ENVIR 313	.	.
LAST UPDT: 8/06/12 APPROVED: 3/01/76 COMMENT:MOVE COLLEGE 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	.	.
LAST UPDT: 8/05/14 APPROVED:12/21/10 COMMENT: DING FEE TYPE:1 \$30.00 BUDGET:069340 REV OBJ CD:943081 AIS 320														
ESS 326	GEOMORPHOLOGY Geomorphology	AUT/2012 - AUT/9999	5.0		.	.	.	Y	.	Y	.	.	.	.
LAST UPDT: 9/28/12 APPROVED: 2/25/98 COMMENT:CHG PREQ 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	.	.	.
LAST UPDT: 8/06/12 APPROVED: 9/24/01 COMMENT:EMAIL PREQ CHG FEE TYPE:1 \$50.00 BUDGET:069340 REV OBJ CD:943081														

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						-ALL U	GRD E	U N E	L I	E C Q T	R				
						MAX P	SYS D	HYPH M R E	P & A	N S W	C M S N	T P R G	COURSE	COURSES	I T
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									
						FEE TYPE:1 \$45.00 BUDGET:069340 REV OBJ CD:943081									
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									
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									
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ESS 414	FLUIDS Geophysics: Fluids	SPR/2017	- AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.
LAST UPDT: 1/12/17														
ESS 415	SPACE AND PLASMAS Space and Plasmas	SUM/2018	- AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.
LAST UPDT: 2/28/18														
ESS 416	GEOPHYS ATMOS Geophysics: The Atmosphere	AUT/2009	- AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.
LAST UPDT:12/14/17 APPROVED:10/12/72														
COMMENT:MOVE COLLEGE														
ESS 418	GEOSCIENCE COMM Geoscience Communication	SPR/2017	- AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.
LAST UPDT:10/17/17 APPROVED: 6/15/10														
ESS 420	INTRO GIS EARTH SCI Introduction to Geographic Information Systems for the Earth Sciences	AUT/2016	- AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.
LAST UPDT: 4/06/17 APPROVED:12/20/11														
ESS 421	INTRO REMOT SENSING Introduction to Geological Remote Sensing	AUT/2009	- AUT/9999	4.0	.	.	.	Y	.	Y	.	.	.	.
LAST UPDT: 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/2018	4.0	.	.	.	.	.	Y	.	.	.	.
LAST UPDT: 6/11/18 APPROVED: 9/20/99														
COMMENT:MOVE COLLEGE														
ESS 422	FIELD REMOTE SENSING Field Methods in Remote Sensing	WIN/2019	- AUT/9999	4.0	.	.	.	.	.	Y	.	.	.	.
LAST UPDT: 6/11/18 APPROVED: 9/20/99														
ESS 424	WATER IN ENVIRONMNT Water in the Environment	AUT/2009	- AUT/9999	3.0	.	.	.	.	.	Y	.	.	.	.
LAST UPDT: 9/06/12 APPROVED: 2/25/00														
COMMENT:MOVE COLLEGE														
ESS 425	TECTONIC GEOMORPH Tectonic Geomorphology	SUM/2017	- AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
LAST UPDT:10/17/17 APPROVED:11/17/15														

ESS 424 ATM S 460 .
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							MAX	P	SYS	D	HYPH	M	R	E	P & N	C	M	S	N	RESPONS	JOINT		
ESS	440	PETRO/PETRL META RK	AUT/2009 - AUT/9999	5.0																			
		Petrography and Petrology of Metamorphic Rocks																					
		COMMENT:MOVE COLLEGE																					
ESS	441	PETRG/PETRL SED RCK	AUT/2009 - AUT/9999	5.0																			
		Petrology and Petrography of Sedimentary Rocks																					
		COMMENT:MOVE COLLEGE																					
ESS	445	GEOL OF ORE DEPOSIT	AUT/2009 - AUT/9999	5.0																			
		Geology of Ore Deposits																					
		COMMENT:MOVE COLLEGE																					
ESS	447	ENGINEERING GEOLOGY	AUT/2013 - AUT/9999	4.0																			
		Engineering Geology: Methods and Application																					
		COMMENT:ADD FEE																					
ESS	448	ANALYTIC PALEOBIO	AUT/2018 - AUT/9999	5.0																			
		Analytical Paleobiology																					
		COMMENT:MOVE COLLEGE																					
ESS	449	BIOL FIELD METHODS	SUM/2015 - AUT/2018	3.0-05.0																			
		Intensive Field Experience in Biology																					
		COMMENT:CHG CREDITS																					
ESS	449	PALEOBIO FIELD RSRCH	WIN/2019 - AUT/9999	3.0-05.0		</																	

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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 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	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														
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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COURSE		TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER	D	D	S	H	F	V	L	E	C	Q	W	R	M	
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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	.	.	.	.	.	.	
					LAST UPDT: 2/06/18 APPROVED:12/01/99														
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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	.	.	.	.	.	.	
					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														
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ESS	475	CLMT SCI RSRCH SMNR Current Research in Climate Science Seminar	AUT/2011 - AUT/9999	3.0	6.0	.	.	.	.	.	.	.							
					LAST UPDT: 3/22/16		APPROVED: 1/18/11												
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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:10/17/17		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	.	.	.	.	.	.	.	.							
					LAST UPDT: 8/12/09		APPROVED: 6/13/06												
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ESS	490	SPECIAL TOPICS Special Topics	AUT/2009 - AUT/9999	1.0-10.0	20.0	Y	.	.	.	Y	.	.							
					LAST UPDT: 8/12/09		APPROVED: 9/27/91												
					COMMENT:MOVE COLLEGE														
ESS	492	TEACHING OUTREACH Undergraduate Teaching Experience and Outreach	AUT/2011 - AUT/9999	1.0-03.0	12.0	.	.	.	.	Y	.	.							
					LAST UPDT: 6/20/11		APPROVED: 2/25/98												
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ESS	495	NASA RSRCH SEMINAR NASA Science and Engineering Research Seminar	AUT/2009 - AUT/9999	1.0	4.0	.	CR/NC	.	.	.	Y	.							
					LAST UPDT: 8/12/09		APPROVED:10/29/90												
					COMMENT:MOVE COLLEGE														
ESS	498	INDEPENDENT STUDY Independent Study	SUM/2018 - AUT/9999	1.0-05.0	15.0	.	.	.	.	.	.	.							
					LAST UPDT: 2/22/18														
ESS	499	UNDERGRAD RESEARCH Undergraduate Research	AUT/2009 - AUT/9999	0.0	15.0	Y	.	.	.	.	.	.							
					LAST UPDT: 8/12/09		APPROVED: 2/01/87												
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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									
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ESS 502	THE SOLID EARTH The Solid Earth	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09 APPROVED: 6/13/06									
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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									
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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 \$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									
ESS 508	GREAT GEOL ISSUES Great Geological Issues	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 8/12/09 APPROVED: 3/29/06									
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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									
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ESS 510	APPL FIELD MTHDS II Field Methods in Applied Geology II	WIN/2014 -	AUT/9999	3.0	.	.	.	Y	.	.	.	.	.	.
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ESS 511	CONTINUUM MECHANICS Geophysical Continuum Mechanics	AUT/2010 -	AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.
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						MAX	P	SYS	D	HYPH	M	R	E	A	S	W	T	P	R	G	COURSE	COURSES	I	T	
ESS	512	INTRO SEISMOLOGY Seismology	AUT/2011	- AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		COMMENT:CHG TITLES, DESC, PREQ																							
ESS	513	THE EARTH Geophysics: The Earth	AUT/2009	- AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		COMMENT:MOVE COLLEGE																							
ESS	514	FLUIDS Geophysics: Fluids	AUT/2009	- AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		COMMENT:MOVE COLLEGE																							
ESS	515	SPACE Geophysics: Space	SUM/2018	- AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
ESS	516	THE ATMOSPHERE Geophysics: The Atmosphere	AUT/2009	- AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		COMMENT:MOVE COLLEGE																							
ESS	517	EARTH EVOLUTION Early Earth Evolution	AUT/2009	- AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		COMMENT:MOVE COLLEGE																							
ESS	518	TECHNICAL COMM Technical Communication in Applied Geosciences	AUT/2013	- AUT/9999	1.0	3.0	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	
		COMMENT:ADD FEE																							
ESS	519	SCIENTIFIC WRITING Scientific Writing and Graphics	AUT/2013	- AUT/9999	2.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	.	ESS	519	ATM S	519	.
ESS	520	APPLIC GIS EARTH SCI Application in Geographic Information Systems for the Earth Sciences	AUT/2016	- AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.					.

LAST UPDT:12/20/10 APPROVED: 1/24/95

LAST UPDT:12/14/17 APPROVED: 1/24/95

LAST UPDT: 8/12/09 APPROVED: 1/24/95

LAST UPDT: 2/28/18 APPROVED: 1/24/95

LAST UPDT:12/14/17 APPROVED: 1/24/95

LAST UPDT: 8/12/09 APPROVED: 2/28/03

LAST UPDT: 8/20/13 APPROVED: 8/21/12

FEE TYPE:1 \$15.00 BUDGET:069340 REV OBJ CD:943081

LAST UPDT: 3/21/13 APPROVED: 3/19/13

OCEAN 518

LAST UPDT: 6/08/16 APPROVED: 6/04/13

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

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COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D D S H F L I E E W													RESPONS	JOINT	O						
						-ALL	U	GRD	E	HYPH	U	N	E	P	&	N	C	M				S	N	A	S	W	T
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																					
						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																					
						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	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						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	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
						LAST UPDT: 8/12/09																					
						COMMENT:MOVE COLLEGE																					

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COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

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 Q M S N T P R G	RESPONS COURSE	JOINT COURSES	O M I T
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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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 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 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					OVER D															
CURRIC	NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER	-ALL	U	GRD	D	S H F	V	L I	E E	Q T	W					
					CREDITS	MAX	P	SYS	D	U N E	P & N C M S N	A S W T P R G								
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
COMMENT:MOVE COLLEGE					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
COMMENT:MOVE COLLEGE					LAST UPDT: 8/23/12 APPROVED: 6/19/12															
ESS	559	CLIMATE MODELING Climate Modeling	SPR/2010 - AUT/9999		3.0		.		.	.	.	.	.	.	.		ATM S	559	OCEAN	558
COMMENT:MOVE JT COLLEGE					LAST UPDT: 3/21/16 APPROVED: 6/20/07 ATM S 559															
ESS	560	COSMOGENIC NUCLIDES Cosmogenic Nuclides in Geomorphology	AUT/2009 - AUT/9999		3.0		.		.	.	.	.	.	.	.					.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09 APPROVED: 3/29/04															
ESS	562	OBSERVATNAL SEISMOL Observational Seismology	AUT/2009 - AUT/9999		1.0		18.0	Y	CR/NC	.	.	.	.	.	.					.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09															

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COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

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	E L N C M S N T P R G	W R Q T N G	RESPONS COURSE	JOINT COURSES	O M I T
ESS 563	THEOR SEISMOLOGY I Theoretical Seismology I	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09										
ESS 564	THEOR SEISMOLOGY II Theoretical Seismology II	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09										
ESS 565	LOW-FREQ SEISMOLOGY LOW-FREQUENCY SEISMOLOGY	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09										
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	.	.	.	.	.	.	.	.	OCEAN 545	OCEAN 545	.
COMMENT:CHG TITLES, DESC, PREQ					LAST UPDT: 3/22/16 APPROVED: 2/21/95										
ESS 573	CLOUD PHYS & DYNAM Cloud Microphysics and Dynamics	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	ATM S 535	ATM S 535	.
COMMENT:MOVE COLLEGE					LAST UPDT: 3/21/16 APPROVED:11/06/92										
ESS 574	ATMOS ELEC DYNAMICS ATMOSPHERIC ELECTRICAL DYNAMICS	AUT/2009 -	AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09										
ESS 575	ROCKETS & INSTRUMNT Advanced Rockets and Instrumentation	WIN/2012 -	AUT/9999	2.0-04.0	12.0	.	.	.	.	Y	.	.	.	.	.
COMMENT:CHG CREDITS, DESC					LAST UPDT: 8/06/12 APPROVED: 2/17/09										
					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	.
COMMENT:MOVE COLLEGE					LAST UPDT: 8/12/09										

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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 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 CURRIC NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER D -ALL U MAX	D P	GRD SYS	D E	HYPH	S H F U N E M R E	V L I P & N A S W	E E C L N C T P R	W Q T R S N G	RESPONS COURSE	JOINT COURSES	O M I T
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					
COMMENT:ADD FEE				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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DEPARTMENT: EARTH AND SPACE SCIENCES												
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	L E C M S N	R Q T N	RESPONS COURSE	JOINT COURSES	O M I T
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						
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ESS	800 DOCTORAL DISSERTATN Doctoral Dissertation	AUT/2009 - AUT/9999	0.0	999.0 .	.	11		.	.			.
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