COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	IAS	NW	EECT	EMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
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	INTRO TO GEOL SCI INTRODUCTION TO GEOLOGICAL SCIENCES	AUT/2009 - AUT/9999	5.0		.		.		.	.	Y		.	Y	.	.	.	.			.
		COMMENT:MOVE COLLEGE																				
							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	AUT/2012 - WIN/2016	5.0		.		.		.	.	Y		.	Y	Y	.	.	.			.
		COMMENT:INT DL, CHG DESC, ADD AOK																				
							LAST UPDT: 9/20/12															
							FEE TYPE:1 $20.00 BUDGET:069340 REV OBJ CD:943081															
ESS	102	SPACE&SPACE TRAVEL SPACE AND SPACE TRAVEL	SPR/2016 - AUT/9999	5.0		.		.		.	.	Y		.	Y	Y	.	.	.			.
		COMMENT:END INTIAL DL																				
							LAST UPDT: 9/20/12															
							FEE TYPE:1 $20.00 BUDGET:069340 REV OBJ CD:943081															
ESS	103	MINERALS AND GEMS MINERALS AND GEMS	AUT/2009 - AUT/9999	3.0		.		.		.	.	Y		.	Y	.	.	.	.			.
		COMMENT:MOVE COLLEGE																				
							LAST UPDT: 8/06/12 APPROVED: 9/24/01															
							FEE TYPE:1 $11.00 BUDGET:069340 REV OBJ CD:943081															
ESS	104	PREHISTORIC LIFE PREHISTORIC LIFE	AUT/2009 - AUT/9999	3.0		.		.		.	.	Y		.	Y	.	.	.	.			.
		COMMENT:MOVE COLLEGE																				
							LAST UPDT: 8/06/12 APPROVED: 1/30/03															
							FEE TYPE:1 $10.00 BUDGET:069340 REV OBJ CD:943081															
ESS	105	PROCESSES & HAZARDS THE EARTH: ITS PROCESSES AND HAZARDS	AUT/2009 - AUT/9999	5.0		.		.		.	.	Y		.	Y	.	.	.	.			.
		COMMENT:MOVE COLLEGE																				
							LAST UPDT: 8/06/12 APPROVED: 4/28/03															
							FEE TYPE:1 $15.00 BUDGET:069340 REV OBJ CD:943081															
ESS	106	LIVING WITH VOLCANO LIVING WITH VOLCANOES	AUT/2009 - AUT/9999	3.0		.		.		.	.	.		.	Y	Y	.	.	.			.
		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 OCEAN 115 ASTR 115 BIOL 114	.
		COMMENT:MOVE JT COLLEGE																				
							LAST UPDT: 2/10/10 APPROVED: 2/27/04															

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DU P	GRD SYS	DED HYPH	SUM	HNR	FEE	VLPA	I&S	NW	EECT	CMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
ESS	119	ESS LAB TOURS	SPR/2013 - AUT/9999	1.0	3.0	.	CR/NC	.	.	.	.	.	.	.	.	.	.	.	.	.	.
		INTRODUCTION TO LABORATORIES																			
							LAST UPDT: 1/16/13 APPROVED: 1/15/12														
ESS	201	EARTH CLIMATE	AUT/2009 - AUT/9999	5.0		.		.	.	.	.	.	.	Y	.	.	.	.			.
		THE EARTH SYSTEM AND CLIMATE																			
							LAST UPDT: 8/12/09 APPROVED: 6/27/01														
		COMMENT:MOVE COLLEGE																			
ESS	202	EARTHQUAKES	AUT/2012 - AUT/9999	5.0		.		.	.	.	Y	.	Y	Y	.	.	.	.			.
		EARTHQUAKES																			
							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	WIN/2013 - AUT/9999	5.0		.		.	.	.	Y	.	Y	Y	.	.	.	.			.
		GLACIERS AND GLOBAL CHANGE																			
							LAST UPDT:12/11/12 APPROVED: 9/28/98														
		COMMENT:CHG AOK, DESC					FEE TYPE:1 $12.00 BUDGET:069340 REV OBJ CD:943081														
ESS	205	ACCESS TO SPACE	AUT/2009 - AUT/9999	5.0		.		.	.	.	Y	.	.	Y	.	.	.	.			.
		ACCESS TO SPACE																			
							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	AUT/2009 - AUT/9999	3.0-12.0	12.0	.		.	.	.	.	.	.	Y	.	.	.	.			.
		INTERDISCIPLINARY EARTH SCIENCES FIELD SEMINAR																			
							LAST UPDT: 8/12/09 APPROVED: 7/13/05														
		COMMENT:MOVE COLLEGE																			
ESS	210	PHYSICAL GEOLOGY	AUT/2009 - AUT/9999	5.0		.		.	.	.	Y	.	.	Y	.	.	.	.			.
		PHYSICAL GEOLOGY																			
							LAST UPDT: 8/06/12 APPROVED: 1/01/82														
		COMMENT:MOVE COLLEGE					FEE TYPE:1 $20.00 BUDGET:069340 REV OBJ CD:943081														
ESS	211	PHYS PROC EARTH	AUT/2009 - AUT/9999	5.0		.		.	.	.	Y	.	.	Y	.	.	.	.			.
		PHYSICAL PROCESSES OF THE EARTH																			
							LAST UPDT: 8/06/12 APPROVED: 3/17/97														
		COMMENT:MOVE COLLEGE					FEE TYPE:1 $26.00 BUDGET:069340 REV OBJ CD:943081														
ESS	212	EARTH MATERIALS	WIN/2013 - AUT/9999	5.0		.		.	.	.	Y	.	.	Y	.	.	.	.			.
		EARTH MATERIALS AND PROCESSES																			
							LAST UPDT:10/16/12 APPROVED: 9/22/97														
		COMMENT:CHG FEE					FEE TYPE:1 $75.00 BUDGET:069340 REV OBJ CD:943081														

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	LI&S	NW	EECT	EEMP	CQS	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
ESS	213	EVOLUTION OF EARTH EVOLUTION OF THE EARTH	AUT/2009 - AUT/9999	5.0		.		.				Y			Y							.
ESS	230	RIVERS AND BEACHES RIVERS AND BEACHES	SPR/2010 - AUT/9999	3.0-05.0		.		.				Y			Y					ESS 230	OCEAN 230	.
ESS	301	GEOL OF NORTHWEST GEOLOGY OF THE NORTHWEST	AUT/2009 - AUT/9999	5.0		.		.				Y			Y							.
ESS	302	GREAT ICE AGE GREAT ICE AGE	AUT/2009 - AUT/9999	5.0		.		.				Y			Y							.
ESS	303	GEOLOGIC HAZARDS GEOLGOIC HAZARDS	AUT/2009 - AUT/9999	5.0		.		.							Y							.
ESS	304	NW VOLC AND GLAC VOLCANOES AND GLACIERS OF THE PACIFIC NORTHWEST	AUT/2009 - AUT/9999	5.0		.		.				Y			Y							.
ESS	305	GEOL NATIONAL PARKS GEOLOGY OF THE NATIONAL PARKS	AUT/2009 - AUT/9999	5.0		.		.				Y			Y							.
ESS	306	PLANETARY GEOLOGY PLANETARY GEOLOGY	AUT/2009 - AUT/9999	5.0		.		.							Y							.
ESS	310	EARTH SCI MATH MATHEMATICAL METHODS IN THE EARTH SCIENCES	AUT/2012 - AUT/9999	5.0		.		.							Y							.

LAST UPDT: 8/06/12 APPROVED: 9/22/97
COMMENT:MOVE COLLEGE FEE TYPE:1 $40.00 BUDGET:069340 REV OBJ CD:943081

LAST UPDT: 8/06/12 APPROVED: 4/28/03
COMMENT:MOVE JT COLLEGE FEE TYPE:1 $50.00 BUDGET:069340 REV OBJ CD:943081

LAST UPDT: 8/06/12
COMMENT:MOVE COLLEGE FEE TYPE:1 $25.00 BUDGET:069340 REV OBJ CD:943081

LAST UPDT: 8/06/12 APPROVED:10/01/85
COMMENT:MOVE COLLEGE FEE TYPE:1 $20.00 BUDGET:069340 REV OBJ CD:943081

LAST UPDT:12/11/12 APPROVED:12/06/91
COMMENT:MOVE COLLEGE

LAST UPDT: 8/06/12 APPROVED:12/01/83
COMMENT:MOVE COLLEGE FEE TYPE:1 $39.00 BUDGET:069340 REV OBJ CD:943081

LAST UPDT: 8/06/12 APPROVED:12/01/89
COMMENT:MOVE COLLEGE FEE TYPE:1 $30.00 BUDGET:069340 REV OBJ CD:943081

LAST UPDT: 8/12/09 APPROVED:12/10/90
COMMENT:MOVE COLLEGE

LAST UPDT: 9/05/12 APPROVED: 8/21/12

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	I&S	NW	ELECT	EMC	QPS	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
ESS	311	GEOMECHANICS GEOMECHANICS	AUT/2012 - AUT/9999	5.0		.		.		.	.	Y		.	Y	.	.	.	.			.
		LAST UPDT: 9/28/12 APPROVED: 2/25/98																				
		COMMENT:CHG PREQ		FEE TYPE:1 $10.00 BUDGET:069340 REV OBJ CD:943081																		
ESS	312	GEOCHEMISTRY GEOCHEMISTRY	AUT/2009 - AUT/9999	5.0		.		.		.	.	.		.	Y	.	.	.	.			.
		LAST UPDT: 8/12/09 APPROVED: 2/25/98																				
		COMMENT:MOVE COLLEGE																				
ESS	313	GEOBIOLOGY GEOBIOLOGY	AUT/2009 - AUT/9999	5.0		.		.		.	.	Y		.	Y	.	.	.	.			.
		LAST UPDT: 8/06/12 APPROVED: 2/25/98																				
		COMMENT:MOVE COLLEGE		FEE TYPE:1 $40.00 BUDGET:069340 REV OBJ CD:943081																		
ESS	314	GEOPHYS: EXP TO EART GEOPHYSICS: EXPEDITION TO PLANET EARTH	AUT/2012 - AUT/9999	5.0		.		.		.	.	.		.	Y	.	.	.	.			.
		LAST UPDT: 9/06/12 APPROVED:10/29/03																				
		COMMENT:UPDATE PREQ																				
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: 8/06/12 APPROVED:12/21/10																			AIS 320	
		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: 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																		
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																				

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	I&S	NW	ELECT	ECMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
ESS	401	REGIONAL GEOL PNW REGIONAL GEOLOGY OF THE PACIFIC NORTHWEST	AUT/2009 - AUT/9999	3.0		.		.		.	.	Y		.	Y	.	.	.	.			.
		COMMENT:MOVE COLLEGE																				
ESS	402	INTL FIELD GEOLOGY INTERNATIONAL FIELD GEOLOGY	AUT/2009 - AUT/9999	3.0-12.0	12.0	.		.		.	.	.		.	Y	.	.	.	.			.
		COMMENT:MOVE COLLEGE																				
ESS	403	GLOBAL TECTONICS GLOBAL TECTONICS	AUT/2009 - AUT/9999	5.0		.		.		.	.	.		.	Y	.	.	.	.			.
		COMMENT:CHG TTL,CRDT,DSC, COLLEGE																				
ESS	406	EARTH SCI FOR TEACH EARTH SCIENCES FOR MIDDLE AND HIGH SCHOOL SCIENCE TEACHERS: SOLID EARTH	AUT/2009 - AUT/9999	3.0		.		.		.	.	.		.	Y	.	.	.	.			.
		COMMENT:MOVE COLLEGE																				
ESS	408	GREAT ISSUES GREAT GEOLOGICAL ISSUES	AUT/2009 - AUT/9999	3.0		.		.		.	.	.		.	Y	.	.	.	.			.
		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	.
		COMMENT:CHG DESC, PREQ																				
ESS	411	CONTINUUM MECHANICS GEOPHYSICAL CONTINUUM MECHANICS	AUT/2010 - AUT/9999	5.0		.		.		.	.	.		.	Y	.	.	.	.			.
		COMMENT:CHG CREDITS																				
ESS	412	INTRO SEISMOLOGY INTRODUCTION TO SEISMOLOGY	AUT/2011 - AUT/9999	3.0		.		.		.	.	.		.	Y	.	.	.	.			.
		COMMENT:CHG TITLES, PREQ, DESC																				
ESS	413	GEOPHYSICS EARTH GEOPHYSICS: THE EARTH	AUT/2009 - AUT/9999	3.0		.		.		.	.	.		.	Y	.	.	.	.			.
		COMMENT:MOVE COLLEGE																				

LAST UPDT: 8/06/12 APPROVED: 5/20/96
FEE TYPE:1 $45.00 BUDGET:069340 REV OBJ CD:943081

LAST UPDT: 8/12/09 APPROVED:12/01/99

LAST UPDT: 8/12/09 APPROVED: 1/28/00

LAST UPDT: 8/12/09 APPROVED: 2/25/02

LAST UPDT: 8/12/09 APPROVED: 3/29/06

LAST UPDT: 8/06/12 APPROVED: 1/25/06
FEE TYPE:1 $50.00 BUDGET:099670 REV OBJ CD:943081

LAST UPDT: 3/15/10

LAST UPDT:12/20/10

LAST UPDT: 8/12/09

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	I&S	NW	ELECT	ECMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
ESS	414	FLUIDS GEOPHYSICS: FLUIDS	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
					LAST UPDT: 8/12/09																	
		COMMENT:MOVE COLLEGE																				
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																	
		COMMENT:MOVE COLLEGE																				
ESS	418	GEOSCIENCE COMM GEOSCIENCE COMMUNICATION	WIN/2011 - SPR/2013	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 3/07/13 APPROVED: 6/15/10																	
ESS	418	GEOSCIENCE COMM GEOSCIENCE COMMUNICATION	SUM/2013 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 3/07/13 APPROVED: 6/15/10																	
		COMMENT:EMAIL PREQ CHG																				
ESS	420	INTRO GEOL GIS INTRODUCTION TO GEOLOGICAL GEOGRAPHIC INFORMATION SYSTEMS	WIN/2012 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 1/11/12 APPROVED:12/20/11																	
ESS	421	INTRO REMOT SENSING INTRODUCTION TO GEOLOGICAL REMOTE SENSING	AUT/2009 - AUT/9999	4.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
					LAST UPDT: 8/12/09 APPROVED: 6/01/81																	
		COMMENT:MOVE COLLEGE																				
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																PHYS 460	
		COMMENT:MOVE COLLEGE																				

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	ILI&S	NW	EECT	LMP	ECQS	WRTN	RESPONS COURSE	JOINT COURSES	OMIT
ESS	426	FLUVIAL GEOMORPH FLUVIAL GEOMORPHOLOGY	AUT/2012 - AUT/9999	5.0		.		.			.	Y										.
		COMMENT:CHG PREQ																				
ESS	427	HILLSLOPE GEOMORPH HILLSLOPE GEOMORPHOLOGY	AUT/2012 - AUT/9999	5.0		.		.			.	.			Y	.	.	.	.			.
		COMMENT:CHG PREQ																				
ESS	428	LANDSCAPE EVOLUTION LANDSCAPE EVOLUTION	AUT/2009 - AUT/9999	5.0		.		.			.	.			Y	.	.	.	.			.
		COMMENT:MOVE COLLEGE																				
ESS	431	PRINS OF GLACIOLOGY PRINCIPLES OF GLACIOLOGY	AUT/2012 - AUT/9999	4.0		.		.			.	Y			Y	.	.	.	.			.
		COMMENT:UPDATE PREQ																				
ESS	432	GLACIAL GEOLOGY GLACIAL GEOLOGY	AUT/2009 - AUT/9999	5.0		.		.			.	.			Y	.	.	.	.			.
		COMMENT:MOVE COLLEGE																				
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																				
ESS	435	GLACIAL PERIGLACIAL GLACIAL-PERIGLACIAL GEOMORPHOLOGY NW	SPR/2011 - AUT/9999	3.0		.		.			.	.			Y	.	.	.	.			.
ESS	437	MINERALOGY MINERALOGY	AUT/2009 - AUT/9999	5.0		.		.			.	.			Y	.	.	.	.			.
		COMMENT:MOVE COLLEGE																				
ESS	439	PETRG/PETRL IGN RCK PETROLOGY OF IGNEOUS ROCKS	AUT/2009 - AUT/9999	5.0		.		.			.	.			Y	.	.	.	.			.
		COMMENT:MOVE COLLEGE																				

LAST UPDT: 9/28/12 APPROVED: 1/01/79
FEE TYPE:1 $40.00 BUDGET:069340 REV OBJ CD:943081

LAST UPDT: 9/28/12 APPROVED: 1/01/79

LAST UPDT: 8/12/09 APPROVED: 2/25/98

LAST UPDT: 9/28/12 APPROVED: 6/01/89
FEE TYPE:1 $17.00 BUDGET:069340 REV OBJ CD:943081

LAST UPDT: 8/12/09 APPROVED:12/01/79

LAST UPDT: 4/19/10 APPROVED:12/01/85

LAST UPDT:12/21/10 APPROVED:12/21/10

LAST UPDT: 8/12/09 APPROVED:10/26/99

LAST UPDT: 8/12/09

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	I&S	NW	ELECT	EMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
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																	
		COMMENT:MOVE COLLEGE			FEE TYPE:1 $50.00 BUDGET:069340 REV OBJ CD:943081																	
ESS	447	ENGINEERING GEOLOGY ENGINEERING GEOLOGY: METHODS AND APPLICATION	SPR/2012 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 2/29/12 APPROVED: 2/28/12																	
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:11/01/12 APPROVED: 2/25/02																	
		COMMENT:CHG FEE			FEE TYPE:1 $57.00 BUDGET:069377 REV OBJ CD:943081																	
ESS	452	VERTE PALEO VERTEBRATE PALEONTOLOGY	AUT/2010 - AUT/9999	5.0		.		.		.	.	Y	.	.	Y	.	.	.	.	BIOL 450	BIOL 450	.
					LAST UPDT: 8/06/12 APPROVED:12/01/85																	
		COMMENT:EMAIL PREQ CHG			FEE TYPE:1 $40.00 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	AUT/2012 - AUT/9999	3.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
					LAST UPDT: 9/28/12 APPROVED: 5/19/09																	
		COMMENT:UPDATE PREQ																				

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	IS	NW	ELECT	EMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
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	AUT/2009 - AUT/9999	4.0		.		.			.	Y		.	Y	.	.	.	.			.
					LAST UPDT: 8/06/12 APPROVED: 1/01/82																	
		COMMENT:MOVE COLLEGE		FEE TYPE:1 $30.00 BUDGET:069340 REV OBJ CD:943081																		
ESS	457	ENV GEOCHEM ENVIRONMENTAL GEOCHEMISTRY	AUT/2009 - AUT/9999	4.0		.		.			.	.		.	Y	.	.	.	.			.
					LAST UPDT: 8/12/09 APPROVED: 3/29/06																	
		COMMENT:MOVE COLLEGE																				
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	AUT/2009 - AUT/9999	4.0		.		.			.	.		.	Y	.	.	.	.			.
					LAST UPDT: 8/12/09 APPROVED: 6/01/99																	
		COMMENT:MOVE COLLEGE																				
ESS	463	STRUCTURE TECTONICS STRUCTURE AND TECTONICS	WIN/2013 - AUT/9999	5.0		.		.			.	Y		.	Y	.	.	.	.			.
					LAST UPDT:10/16/12 APPROVED: 2/25/98																	
		COMMENT:CHG FEE		FEE TYPE:1 $150.00 BUDGET:069340 REV OBJ CD:943081																		

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	IS	NW	ELECT	ECMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
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 & ERTHQKE ENGR SEISMOLOGY AND EARTHQUAKE ENGINEERING	AUT/2012 - AUT/9999	3.0		.		.		.	.	.		.	Y	.	.	.	.	CEE 431	CEE 431	.
		LAST UPDT: 9/06/12 APPROVED: 2/25/02																				
		COMMENT:UPDATE PREQ																				
ESS	466	APPLIED SEISMOLOGY APPLIED SEISMOLOGY	AUT/2009 - AUT/9999	2.0		.		.		.	.	.		.	Y	.	.	.	.			.
		LAST UPDT: 8/12/09 APPROVED: 1/01/88																				
		COMMENT:MOVE COLLEGE																				
ESS	467	SEIS EXPLR & STRAT SEISMIC EXPLORATION	WIN/2010 - AUT/9999	5.0		.		.		.	.	.		.	Y	.	.	.	.	ESS 467	OCEAN 412	.
		LAST UPDT: 1/11/10 APPROVED:12/01/89																				
		COMMENT:CHG TITLES, PREQ, DESC																				
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: 8/06/12 APPROVED: 2/21/07																				
		COMMENT:CHG CREDITS, DESC 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	OCEAN 475	.
		LAST UPDT: 1/26/11 APPROVED: 1/18/11																			ATM S 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	489	HONORS SEMINAR HONORS SEMINAR	AUT/2009 - AUT/9999	3.0		.		.		.	.	.		.	.	.	.	.	.			.
		LAST UPDT: 8/12/09 APPROVED: 6/13/06																				
		COMMENT:MOVE COLLEGE																				

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DUP	GRD SYS	DED HYPH	SUM	HNR	FEE	VLPA	IAS	NW	ELECT	EMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
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																
		COMMENT:CHG CREDITS																			
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	UNDERGRAD THESIS UNDERGRADUATE THESIS	AUT/2009 - AUT/9999	5.0		.		.		.	.	.	.	Y	.	.	.	.			.
					LAST UPDT: 8/12/09																
		COMMENT:MOVE COLLEGE																			
ESS	499	UNDERGRAD RESEARCH UNDERGRADUATE RESEARCH	AUT/2009 - AUT/9999	0.0	15.0	Y		.		.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/12/09 APPROVED: 2/01/87																
		COMMENT:MOVE COLLEGE																			
ESS	501	GEOCHEMICAL SYSTEMS GEOCHEMICAL SYSTEMS	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/12/09 APPROVED: 6/13/06																
		COMMENT:MOVE COLLEGE																			
ESS	502	THE SOLID EARTH THE SOLID EARTH	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/12/09 APPROVED: 6/13/06																
		COMMENT:MOVE COLLEGE																			
ESS	503	SOLAR TERRESTR PHYS INTRODUCTION TO SOLAR TERRESTRIAL PHYSICS	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/12/09 APPROVED: 8/08/06																
		COMMENT:MOVE COLLEGE																			
ESS	504	EARTH SURFACE THE EARTH SURFACE	AUT/2009 - AUT/9999	3.0		.		.		.	.	Y	.	.	.	.	.	.			.
					LAST UPDT: 8/06/12 APPROVED: 6/13/06																
		COMMENT:MOVE COLLEGE																			

FEE TYPE:1 $50.00 BUDGET:069340 REV OBJ CD:943081

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	I&S	NW	ELECT	EMP	EQSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
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	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																				
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																				

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	I&S	NW	ELECT	ECMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
ESS	518	TECHNICAL COMM TECHNICAL COMMUNICATION IN APPLIED GEOSCIENCES	AUT/2012 - AUT/9999	1.0	3.0	.		.		.	.	.	.	.	.	.	.	.	.			.
										LAST UPDT: 9/05/12			APPROVED: 8/21/12									
ESS	519	SCIENTIFIC WRITING SCIENTIFIC WRITING AND GRAPHICS	AUT/2013 - AUT/9999	2.0		.	CR/NC	.		.	.	.	.	.	.	.	.	.	.	ESS 519	ATM S 519 OCEAN 518	.
										LAST UPDT: 3/21/13			APPROVED: 3/19/13									
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	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
										LAST UPDT: 8/12/09			APPROVED: 1/01/73									
		COMMENT:MOVE COLLEGE																				
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	526	SED DYN AND PHYSICS SEDIMENT DYNAMICS AND BOUNDARY-LAYER PHYSICS	WIN/2010 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.	OCEAN 542	OCEAN 542	.
										LAST UPDT: 1/11/10			APPROVED: 2/28/94									
		COMMENT:MOVE JT COLLEGE																				
ESS	527	CONTINENT-MARG SED CONTINENTAL-MARGIN SEDIMENTATION	SPR/2010 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	OCEAN 546	OCEAN 546	.
										LAST UPDT: 2/10/10			APPROVED:11/21/05									
		COMMENT:MOVE JT COLLEGE																				
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																				

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DU P	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	I&S	NW	ELECT	EMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
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																				
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	545	ECON GEOL SED ROCKS ECONOMIC GEOLOGY OF SEDIMENTARY ROCKS	AUT/2009 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT:12/11/12																	
		COMMENT:MOVE COLLEGE																				

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	IAS	NW	ELECT	ECMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
ESS	546	TSUNAMI HAZARDS SCI APPLIED TSUNAMI HAZARD SCIENCE	SPR/2013 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 1/16/13			APPROVED: 1/15/13														
ESS	547	ENGINEERING GEOLOGY ENGINEERING GEOLOGY: METHODS AND APPLICATION	SPR/2012 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 2/29/12			APPROVED: 2/28/12														
ESS	548	GEODYNAMICS GEODYNAMICS	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/12/09			APPROVED: 2/28/94														
		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																				
ESS	550	EMAG & POTEN FIELDS ELECTROMAGNETIC AND POTENTIAL FIELD METHODS	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/12/09			APPROVED: 2/28/94														
		COMMENT:MOVE COLLEGE																				
ESS	551	MINERAL PHYSICS MINERAL PHYSICS	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/12/09			APPROVED: 2/28/94														
		COMMENT:MOVE COLLEGE																				
ESS	552	SOLUTION GEOCHEM SOLUTION GEOCHEMISTRY	AUT/2009 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT:12/11/12			APPROVED:11/01/75														
		COMMENT:MOVE COLLEGE																				
ESS	553	ELEC BEAM ANALYSIS ELECTRON BEAM MICROANALYSIS	AUT/2009 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/12/09			APPROVED:12/01/85														
		COMMENT:MOVE COLLEGE																				
ESS	554	PALEOCLIMAT PROXIES PALEOCLIMATE PROXIES	SPR/2010 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	ATM S 554	ATM S 554 OCEAN 554	.
					LAST UPDT: 8/12/09			APPROVED:12/16/08														

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	IS	NW	ELECT	ECMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
ESS	555	PHYS CHEM EARTH	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		PHYSICS AND CHEMISTRY OF THE EARTH'S INTERIOR																				
					LAST UPDT: 8/12/09 APPROVED: 3/28/94																	
		COMMENT:MOVE COLLEGE																				
ESS	556	PHYSICAL PETROLOGY	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		PHYSICAL PETROLOGY																				
					LAST UPDT: 8/12/09 APPROVED:12/01/89																	
		COMMENT:MOVE COLLEGE																				
ESS	557	VERTE PALEO	SPR/2010 - AUT/9999	5.0		.		.		.	.	Y	.	.	.	.	.	.	.	BIOL 557	BIOL 557	.
		VERTEBRATE PALEONTOLOGY																				
					LAST UPDT: 8/06/12 APPROVED: 5/19/09																	
					FEE TYPE:1 $40.00 BUDGET:069377 REV OBJ CD:943081																	
ESS	558	GRAD PALEOBIO RES	AUT/2012 - AUT/9999	1.0		.	CR/NC	.		.	.	.	.	.	.	.	.	.	.	BIOL 555	BIOL 555	.
		INTRODUCTION TO GRADUATE RESEARCH IN PALEOBIOLOGY																				
					LAST UPDT: 8/23/12 APPROVED: 6/19/12																	
ESS	559	CLIMATE MODELING	SPR/2010 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	ATM S 559	ATM S 559	.
		CLIMATE MODELING																				
					LAST UPDT: 2/10/10 APPROVED: 6/20/07																OCEAN 558	
		COMMENT:MOVE JT COLLEGE																				
ESS	560	COSMOGENIC NUCLIDES	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		COSMOGENIC NUCLIDES IN GEOMORPHOLOGY																				
					LAST UPDT: 8/12/09 APPROVED: 3/29/04																	
		COMMENT:MOVE COLLEGE																				
ESS	562	OBSERVATNAL SEISMOL	AUT/2009 - AUT/9999	1.0		18.0	Y CR/NC	.		.	.	.	.	.	.	.	.	.	.			.
		OBSERVATIONAL SEISMOLOGY																				
					LAST UPDT: 8/12/09																	
		COMMENT:MOVE COLLEGE																				
ESS	563	THEOR SEISMOLOGY I	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		THEORETICAL SEISMOLOGY I																				
					LAST UPDT: 8/12/09																	
		COMMENT:MOVE COLLEGE																				
ESS	564	THEOR SEISMOLOGY II	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		THEORETICAL SEISMOLOGY II																				
					LAST UPDT: 8/12/09																	
		COMMENT:MOVE COLLEGE																				

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	IS	NW	EECT	LMP	ECQS	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
ESS	565	LOW-FREQ SEISMOLOGY LOW-FREQUENCY SEISMOLOGY	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/12/09																	
		COMMENT:MOVE COLLEGE																				
ESS	568	OCEANIC LITHOSPHERE OCEANIC LITHOSPHERE	AUT/2011 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	OCEAN 545	OCEAN 545	.
					LAST UPDT: 4/18/11																	
		COMMENT:CHG TITLES, DESC, PREQ																				
ESS	573	CLOUD PHYS & DYNAM CLOUD MICROPHYSICS AND DYNAMICS	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	ATM S 535	ATM S 535	.
					LAST UPDT: 8/12/09																	
		COMMENT:MOVE COLLEGE																				
ESS	574	ATMOS ELEC DYNAMICS ATMOSPHERIC ELECTRICAL DYNAMICS	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/12/09																	
		COMMENT:MOVE COLLEGE																				
ESS	575	ROCKETS & INSTRUMNT ADVANCED ROCKETS AND INSTRUMENTATION	WIN/2012 - AUT/9999	2.0-04.0	12.0	.		.		.	.	Y	.	.	.	.	.	.	.			.
					LAST UPDT: 8/06/12 APPROVED: 2/17/09																	
		COMMENT:CHG CREDITS, DESC		FEE TYPE:1 $175.00 BUDGET:069340 REV OBJ CD:943081																		
ESS	576	SPACE AND LAB PHYS SPACE AND LABORATORY PLASMA PHYSICS	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	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																				

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	LI&S	NW	ELECT	EMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
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																ATM S 555	
		COMMENT:MOVE COLLEGE																				
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																ENVIR 585	
		COMMENT:CHG JT STATUS																			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	.
					LAST UPDT: 2/10/10 APPROVED: 2/25/02																OCEAN 586	
		COMMENT:MOVE JT COLLEGE																				
ESS	587	CLIMATE DYNAMICS CLIMATE DYNAMICS	SPR/2010 - SUM/2013	3.0		.		.		.	.	.	.	.	.	.	.	.	.	ESS 587	ATM S 587	.
					LAST UPDT: 3/21/13 APPROVED: 2/25/02																OCEAN 587	
		COMMENT:MOVE JT COLLEGE																				
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																				

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	EL&AS	NW	ECT	EMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
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/2012 - AUT/9999	1.0	3.0	.		.														.
					LAST UPDT:11/07/12 APPROVED: 8/21/12																	
ESS	593	CLIMATE SEMINAR CLIMATE SCIENCE SEMINAR	SPR/2010 - AUT/9999	1.0		.	CR/NC	.												ATM S 593	ATM S 593 OCEAN 593	.
		COMMENT:MOVE JT COLLEGE			LAST UPDT: 2/10/10 APPROVED:12/16/08																	
ESS	594	INTRO ESS RSRCH INTRODUCTION TO EARTH AND SPACE SCIENCES RESEARCH	AUT/2009 - AUT/9999	1.0-02.0	4.0	Y		.														.
		COMMENT:MOVE COLLEGE			LAST UPDT: 8/12/09 APPROVED:11/21/94																	
ESS	595	ESS RSRCH METHODS EARTH AND SPACE SCIENCES RESEARCH METHODS	AUT/2011 - AUT/9999	2.0	30.0	Y	CR/NC	.														.
		COMMENT:CHG GRADING			LAST UPDT: 6/20/11 APPROVED:11/21/94																	
ESS	596	CLIMATE CAPSTONE CLIMATE SCIENCE CAPSTONE PROJECT	SPR/2010 - AUT/9999	1.0-05.0	5.0	.		.												ATM S 596	ATM S 596 OCEAN 596	.
		COMMENT:MOVE JT COLLEGE			LAST UPDT: 2/10/10 APPROVED:12/16/08																	
ESS	599	SEMINAR SEMINAR	AUT/2009 - AUT/9999	1.0	24.0	Y	CR/NC	.														.
		COMMENT:MOVE COLLEGE			LAST UPDT: 5/18/12 APPROVED: 2/01/77																	
ESS	600	INDEPNDNT STDY/RSCH INDEPENDENT STUDY OR RESEARCH	AUT/2009 - AUT/9999	0.0	999.0	.	CR/NC	.	11													.
		COMMENT:MOVE COLLEGE			LAST UPDT: 4/19/10 APPROVED: 2/01/78																	
ESS	700	MASTERS THESIS MASTER'S THESIS	AUT/2009 - AUT/9999	0.0	999.0	.		.	11													.
		COMMENT:MOVE COLLEGE			LAST UPDT: 4/19/10 APPROVED: 1/01/70																	

COLLEGE : D - Environment
DEPARTMENT: EARTH AND SPACE SCIENCES

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	I&S	NW	ELECT	EMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
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