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DETAILED CURRICULUM REPORT
Seattle CAMPUS

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DEPARTMENT: APPLIED MATHEMATICS

CURRIC	COURSE NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS											RESPONS COURSE	JOINT COURSES	O M I T
						OVER D	D	S H F	L I	E E	W							
						-ALL U	GRD	E	U N E	P & N	C M S	A S W	T P R	G				
AMATH	301	BEG SCI COMPUTING BEGINNING SCIENTIFIC COMPUTING COMMENT:CHG DESC, PREQ	AUT/2008 - AUT/9999		4.0										Y			.
						LAST UPDT:	5/19/08		APPROVED:	2/23/96								
AMATH	351	DIFF EQUATIONS INTRODUCTION TO DIFFERENTIAL EQUATIONS AND APPL...	AUT/2002 - AUT/9999		3.0										Y			.
		COMMENT:CHANGE PREREQUISITE				LAST UPDT:	3/04/02											
AMATH	352	LINR ALG & NUM ANLY APPLIED LINEAR ALGEBRA AND NUMERICAL ANALYSIS COMMENT:CHANGE COURSE DESCRIPT	AUT/2000 - AUT/9999		3.0										Y			.
						LAST UPDT:	12/27/99											
AMATH	353	PARTIAL DIFF EQNS FOURIER ANALYSIS AND PARTIAL DIFFERENTIAL EQUATION COMMENT:PREREQ CHANGE	SPR/2000 - AUT/9999		3.0										Y			.
						LAST UPDT:	1/14/00		APPROVED:	10/23/80								
AMATH	383	INTRODUCT MODELING INTRODUCTION TO CONTINUOUS MATHEMATICAL MODELING COMMENT:PREREQ CHANGE	SPR/2000 - AUT/9999		3.0										Y			.
						LAST UPDT:	1/14/00		APPROVED:	12/06/93								
AMATH	401	VEC CAL COMPLEX VAR VECTOR CALCULUS AND COMPLEX VARIABLES COMMENT:CHG CREDITS	AUT/2011 - AUT/9999		4.0										Y			.
						LAST UPDT:	11/16/10		APPROVED:	2/28/94								
AMATH	402	DYNAMCL SYSTS&CHAOS INTRODUCTION TO DYNAMICAL SYSTEMS AND CHAOS COMMENT:CHG DESC	AUT/2009 - AUT/9999		4.0										Y			.
						LAST UPDT:	9/14/09		APPROVED:	2/28/94								
AMATH	403	METHODS PAR DIFF EQ METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS COMMENT:CHG DESC	AUT/2009 - AUT/9999		4.0										Y			.
						LAST UPDT:	9/14/09											
AMATH	422	COMP MODELS BIOLOGY COMPUTATIONAL MODELING OF BIOLOGICAL SYSTEMS COMMENT:CHG TITLES, DESC	SPR/2011 - AUT/9999		3.0										Y			.
						LAST UPDT:	11/16/10		APPROVED:	1/24/96								
AMATH	423	MATH ANLYS BIO MED MATHEMATICAL ANALYSIS IN BIOLOGY AND MEDICINE COMMENT:CHG TITLES, DESC	SPR/2011 - AUT/9999		3.0										Y			.
						LAST UPDT:	12/20/10		APPROVED:	1/24/96								
AMATH	424	MATH BIO SPAT MODS MATHEMATICAL BIOLOGY: SPATIOTEMPORAL MODELS	AUT/2009 - AUT/9999		3.0													.
						LAST UPDT:	9/16/09		APPROVED:	9/15/09								

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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
AMATH 481	SCIENTIFIC COMPTG SCIENTIFIC COMPUTING	AUT/2009 - AUT/9999	5.0		LAST UPDT: 9/16/09	APPROVED: 9/15/09	.	.	.	.	.			.
AMATH 482	COMP METH DATA ANLY COMPUTATIONAL METHODS FOR DATA ANALYSIS	AUT/2009 - AUT/9999	5.0		LAST UPDT: 9/16/09	APPROVED: 9/15/09	.	.	.	.	.			.
AMATH 483	HI-PRFM SCI COMPG HIGH-PERFORMANCE SCIENTIFIC COMPUTING	AUT/2009 - AUT/9999	5.0		LAST UPDT: 9/16/09	APPROVED: 9/15/09	.	.	.	.	.			.
AMATH 490	SPECIAL TOPICS SPECIAL TOPICS	AUT/1999 - AUT/9999	1.0-05.0	15.0	LAST UPDT: 5/04/00	APPROVED: 2/22/99	.	.	.	.	.			.
AMATH 498	SR PROJECT/THESIS SENIOR PROJECT OR THESIS	WIN/1999 - AUT/9999	1.0-06.0	6.0	LAST UPDT: 5/29/98	APPROVED: 5/27/98	.	.	.	.	.			.
AMATH 499	READING/RESEARCH UNDERGRADUATE READING AND RESEARCH	WIN/1999 - AUT/9999	1.0-06.0	6.0	CR/NC	LAST UPDT: 5/29/98	APPROVED: 5/27/98	.	.	.	.			.
AMATH 500	SPEC STDY APPL MATH SPECIAL STUDIES IN APPLIED MATHEMATICS COMMENT:CHG MAX CREDITS	SPR/2011 - AUT/9999	0.0	24.0 Y	LAST UPDT: 4/18/11	APPROVED: 1/01/86	.	.	.	.	.			.
AMATH 501	VEC CAL COMPLEX VAR VECTOR CALCULUS AND COMPLEX VARIABLES COMMENT:10-12 PREQ CHG	AUT/2010 - AUT/9999	5.0		LAST UPDT: 4/05/10	APPROVED: 9/15/09	.	.	.	.	.			.
AMATH 502	INTRO DYN SYS & CH INTRODUCTION TO DYNAMICAL SYSTEMS AND CHAOS COMMENT:10-12 PREQ CHG	AUT/2010 - AUT/9999	5.0		LAST UPDT: 4/05/10	APPROVED: 9/15/09	.	.	.	.	.			.
AMATH 503	METHODS PAR DIFF EQ METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS COMMENT:10-12 PREQ CHG	AUT/2010 - AUT/9999	5.0		LAST UPDT: 4/05/10	APPROVED: 9/15/09	.	.	.	.	.			.
AMATH 504	MATHTCL EPIDLG MATHEMATICAL EPIDEMIOLOGY COMMENT:CHG TTL,DESC,PREQ,CREDITS	WIN/2010 - AUT/9999	5.0		LAST UPDT: 5/20/09	APPROVED:10/01/89	.	.	.	.	.			.
AMATH 505	FLUID DYNAMICS INTRODUCTION TO FLUID DYNAMICS COMMENT:MOVE JT COLLEGE	SPR/2010 - AUT/9999	4.0		LAST UPDT: 2/10/10	APPROVED:10/05/92	.	.	.	.	.	AMATH 505 ATM S 505	OCEAN 511	.

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COURSE		TITLE	EFFECTIVE	QUARTERS	QUARTER CREDITS	OVER D	D	S	H	F	L	I	E	C	Q	T	M	
CURRIC	NUM					MAX	U	GRD	E	U	N	E	P	&	N	C	M	S
											A	S	W	T	P	R		
AMATH	506	APPL PROB AND STATS APPLIED PROBABILITY AND STATISTICS COMMENT:CHG TITLES, DESCRIP	AUT/2000 - AUT/9999	4.0		LAST	UPDT:	2/01/00		APPROVED:	12/06/91	.	.	.	STAT	506	STAT 506	
AMATH	507	CAL VARIATIONS CALCULUS OF VARIATIONS COMMENT:CHG TITLES	AUT/2004 - AUT/9999	5.0		LAST	UPDT:	3/29/04		APPROVED:	12/01/83	.	.	.				
AMATH	509	OPTIMAL CONTROL THEORY OF OPTIMAL CONTROL	SPR/1988 - AUT/9999	3.0		LAST	UPDT:	8/30/94		APPROVED:	5/30/86	.	.	.	MATH	509	MATH 509	
AMATH	512	METH OF ENGR ANALYS METHODS OF ENGINEERING ANALYSIS COMMENT:CHG RESP DEPT	AUT/2011 - AUT/9999	3.0		LAST	UPDT:	5/19/11		APPROVED:	2/01/88	.	.	.	CHEM	E512	CHEM E512	
AMATH	514	NETWORK OPTIMIZIN NETWORKS AND COMBINATORIAL OPTIMIZATION COMMENT:EXTENDED FROM TEMPORARY	AUT/1986 - AUT/9999	3.0		LAST	UPDT:	11/01/99		APPROVED:	5/30/86	.	.	.	MATH	514	MATH 514	
AMATH	515	FUNDAMNTL OPTIMIZTN FUNDAMENTALS OF OPTIMIZATION	AUT/1999 - AUT/9999	5.0		LAST	UPDT:	11/03/99		APPROVED:	3/28/94	.	.	.	MATH	515	MATH 515 IND E	
AMATH	516	NUMERICAL OPTIMIZTN NUMERICAL OPTIMIZATION	SPR/1986 - AUT/9999	3.0		LAST	UPDT:	8/30/94		APPROVED:	5/30/86	.	.	.	MATH	516	MATH 516	
AMATH	517	OPTIMIZTN UNCERTNTY OPTIMIZATION UNDER UNCERTAINTY	AUT/1985 - AUT/9999	3.0		LAST	UPDT:	8/30/94		APPROVED:	6/01/85	.	.	.	AMATH	517	MATH 517	
AMATH	521	SPEC TOPICS MATH BIO SPECIAL TOPICS IN MATHEMATICAL BIOLOGY COMMENT:CHG TITLES, CREDITS, MAX, DESC	AUT/2000 - AUT/9999	5.0	15.0	LAST	UPDT:	2/29/00		APPROVED:	1/30/92	.	.	.				
AMATH	522	INTRO MATH BIO INTRODUCTION TO MATHEMATICAL BIOLOGY COMMENT:10-12 PREQ CHG	AUT/2010 - AUT/9999	5.0		LAST	UPDT:	4/05/10		APPROVED:	9/15/09	.	.	.				
AMATH	523	MATH ANLYS BIO &MED MATHEMATICAL ANALYSIS IN BIOLOGY AND MEDICINE COMMENT:CHG TITLES, DESC	SPR/2011 - AUT/9999	5.0		LAST	UPDT:	2/10/11		APPROVED:	9/15/09	.	.	.				
AMATH	524	MATH BIO: SPAT MODS MATHEMATICAL BIOLOGY: SPATIOTEMPORAL MODELS COMMENT:10-12 PREQ CHG	AUT/2010 - AUT/9999	5.0		LAST	UPDT:	4/05/10		APPROVED:	9/15/09	.	.	.				

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COURSE CURRIC NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS											
AMATH 525	MATH ANLYS BIO &MED MATHEMATICAL ANALYSIS	SPR/2011 - AUT/9999 IN BIOLOGY AND MEDICINE	5.0											.
AMATH 531	THEORY CELL DYNAM MATHEMATICAL THEORY OF CELLUAR DYNAMICS	AUT/2010 - AUT/9999	3.0											.
AMATH 532	MATH GENOM MOL MED MATHEMATICS OF GENOME ANALYSIS &MOLECULAR MODELING	AUT/2011 - AUT/9999	5.0											.
AMATH 533	MOVEMENT CONTROL NEURAL CONTROL OF MOVEMENT: A COMPUTATIONAL PERSPE	WIN/2011 - AUT/9999	3.0										AMATH 533 CSE 529	.
AMATH 535	MATH ECOLOGY MATHEMATICAL ECOLOGY	SPR/2011 - AUT/9999	5.0											.
AMATH 536	SPATIAL MODELS SPATIAL MODELS IN ECOLOGY AND EPIDEMIOLOGY	SPR/2012 - AUT/9999	5.0											.
AMATH 540	INTRO CMPFIN/FINECN INTRO TO COMPUTATIONAL FINANCE & FIN ECONOMETRICS	SUM/2011 - AUT/9999	5.0											.
AMATH 541	INVESTMENT SCIENCE INVESTMENT SCIENCE	AUT/2011 - AUT/9999	4.0											.
AMATH 542	FIN DATA MODELING FINANCIAL DATA MODELING AND ANALYSIS IN R	WIN/2012 - AUT/9999	4.0											.
AMATH 545	FIN RISK MGMT I FINANCIAL RISK MANAGEMENT I	WIN/2012 - AUT/9999	4.0											.
AMATH 551	TRADING SYSTEMS FOUNDATIONS OF TRADING SYSTEMS	SUM/2011 - AUT/9999	3.0											.
AMATH 552	PORTFOLIO PERFORM PORTFOLIO PERFORMANCE ANALYSIS AND BENCHMARKING	AUT/2011 - AUT/9999	2.0											.
AMATH 553	FIN FORCAST METHOD FINANCIAL TIME SERIES FORECASTING METHODS	WIN/2012 - AUT/9999	2.0											.
AMATH 567	APPLIED ANALYSIS APPLIED ANALYSIS	AUT/2009 - AUT/9999	5.0											.
COMMENT:CHG TITLES, DESC														

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AMATH 568	ADV METHODS ODE ADVANCED METHODS FOR ORDINARY DIFFERENTIAL EQUATIO COMMENT:CHANGE TITLES	WIN/2005 - AUT/9999	5.0		LAST UPDT: 2/05/10			APPROVED: 6/07/79						.
AMATH 569	ADV METHOD PDE ADVANCED METHODS FOR PARTIAL DIFFERENTIAL EQUATION COMMENT:CHANGE TITLES	SUM/2005 - AUT/9999	5.0		LAST UPDT: 3/29/04									.
AMATH 570	ASYM PERT METH ASYMPTOTIC AND PERTURBATION COMMENT:CHG TITLES, DESCRIPTION	AUT/2004 - AUT/9999	5.0		LAST UPDT: 3/29/04			APPROVED: 3/13/97						.
AMATH 571	SPECTRAL METHODS SPECTRAL METHODS COMMENT:CHG TITLES, DESCRIPTION	WIN/2005 - AUT/9999	5.0		LAST UPDT: 3/29/04			APPROVED: 3/13/97						.
AMATH 572	INTRO APP STOCH INTRODUCTION TO APPLIED STOCHASTIC ANALYSIS COMMENT:CHG TITLES, DESCRIP, PREREQ	SUM/2005 - AUT/9999	5.0		LAST UPDT: 3/29/04			APPROVED: 3/13/97						.
AMATH 573	COH STR, PATRN & F&S COHERENT STRUCTURES, PATTERN FORMATION & SOLITONS COMMENT:CHG TITLES, DESC	AUT/2009 - AUT/9999	5.0		LAST UPDT: 4/20/09			APPROVED: 3/29/04						.
AMATH 574	CNSRV LAW/FINIT VOL CONSERVATION LAWS AND FINITE VOLUME METHODS	WIN/2005 - AUT/9999	5.0		LAST UPDT:11/04/04			APPROVED:10/25/04						.
AMATH 575	DYNAMICAL SYSTEMS DYNAMICAL SYSTEMS COMMENT:WAS AMATH 574;CHG TITLE,CR	WIN/2005 - AUT/9999	5.0		LAST UPDT:11/01/04			APPROVED: 2/28/94						.
AMATH 579	INTELLIGENT CONTROL INTELLIGENT CONTROL THROUGH LEARNING &OPTIMIZATION	SPR/2010 - AUT/9999	3.0		LAST UPDT: 3/15/10			APPROVED: 2/16/10				AMATH 579 CSE	579	.
AMATH 581	SCIENTIFIC COMPUTING SCIENTIFIC COMPUTING COMMENT:10-12 PREQ CHG	AUT/2010 - AUT/9999	5.0		LAST UPDT: 4/05/10			APPROVED: 1/24/96						.
AMATH 582	COMP METH DATA ANLY COMPUTATIONAL METHODS FOR DATA ANAYLSIS	AUT/2009 - AUT/9999	5.0		LAST UPDT: 9/16/09			APPROVED: 9/15/09						.
AMATH 583	HI-PRFM SCI COMPG HIGH-PERFORMANCE SCIENTIFIC COMPUTING COMMENT:10-12 PREQ CHG	AUT/2010 - AUT/9999	5.0		LAST UPDT: 4/05/10			APPROVED: 9/15/09						.

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	COURSE			QUARTER	OVER D	D	S H F					R			M
	NUM	TITLE	EFFECTIVE QUARTERS	CREDITS	-ALL U	GRD E	U N E	P & N	A S W T P R G	RESPONS	JOINT				I
					MAX	P	SYS	D HYPH	M R E	COURSE	COURSES				T
AMATH	584	APPL LINEAR ALGEBRA APPLIED LINEAR ALGEBRA AND INTRODUCTORY NUMERICAL COMMENT:CHANGE TITLES	AUT/2002 - AUT/9999	5.0	LAST UPDT:	.	2/05/10	APPROVED:	6/07/79	.	.	.	AMATH 584 MATH	584	.
AMATH	585	BOUNDARY VALUE PROBS NUMERICAL ANALYSIS OF BOUNDARY VALUE PROBLEMS COMMENT:CHG PREQS	AUT/2007 - AUT/9999	5.0	LAST UPDT:	.	2/05/10	APPROVED:	6/07/79	.	.	.	AMATH 585 MATH	585	.
AMATH	586	TIME DEPNDT PROBS NUMERICAL ANALYSIS OF TIME DEPENDENT PROBLEMS COMMENT:CHG JT STATUS	AUT/2009 - AUT/9999	5.0	LAST UPDT:	.	2/05/10	APPROVED:	6/07/79	.	.	.	AMATH 586 MATH ATM S	586 581	.
AMATH	594	SPCL TPCS NUM ANLYS SPECIAL TOPICS IN NUMERICAL ANALYSIS	AUT/1994 - AUT/9999	2.0-03.0	15.0 Y	.	LAST UPDT:	9/22/94	APPROVED:	11/01/84	.	.	MATH 594 MATH	594	.
AMATH	595	SPCL TPCS NUM ANLYS SPECIAL TOPICS IN NUMERICAL ANALYSIS	AUT/1994 - AUT/9999	2.0-03.0	15.0 Y	.	LAST UPDT:	9/22/94	APPROVED:	11/01/84	.	.	MATH 595 MATH	595	.
AMATH	596	SPEC TPCS NUM ANLYS SPECIAL TOPICS IN NUMERICAL ANALYSIS	AUT/1994 - AUT/9999	2.0-03.0	15.0 Y	.	LAST UPDT:	9/22/94	APPROVED:	11/01/84	.	.	MATH 596 MATH	596	.
AMATH	600	INDEPNONT RSCH/STDY INDEPENDENT RESEARCH OR STUDY	WIN/1977 - AUT/9999	0.0	999.0 . CR/NC	. 11	LAST UPDT:	4/19/10	APPROVED:	6/01/81	.	.			.
AMATH	700	MASTERS THESIS MASTERS THESIS	AUT/1976 - AUT/9999	0.0	999.0 . CR/NC	. 11	LAST UPDT:	4/19/10	APPROVED:	6/01/81	.	.			.
AMATH	800	DOCTORAL DISSERTATN DOCTORAL DISSERTATION	AUT/1976 - AUT/9999	0.0	999.0 . CR/NC	. 11	LAST UPDT:	4/19/10	APPROVED:	6/01/81	.	.			.