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DEPARTMENT: APPLIED MATHEMATICS

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
AMATH 301	BEG SCI COMPUTING BEGINNING SCIENTIFIC COMPUTING COMMENT:CHG DESC, PREQ	AUT/2008 - AUT/9999	4.0		LAST UPDT: 5/19/08			APPROVED: 2/23/96		Y			.
AMATH 351	DIFF EQUATIONS INTRODUCTION TO DIFFERENTIAL EQUATIONS AND APPL... COMMENT:CHANGE PREREQUISITE	AUT/2002 - AUT/9999	3.0		LAST UPDT: 3/04/02					Y			.
AMATH 352	LINR ALG & NUM ANLY APPLIED LINEAR ALGEBRA AND NUMERICAL ANALYSIS COMMENT:CHANGE COURSE DESCRIPT	AUT/2000 - AUT/9999	3.0		LAST UPDT:12/27/99					Y			.
AMATH 353	PARTIAL DIFF EQNS FOURIER ANALYSIS AND PARTIAL DIFFERENTIAL EQUATION COMMENT:PREREQ CHANGE	SPR/2000 - AUT/9999	3.0		LAST UPDT: 1/14/00					Y			.
AMATH 383	INTRODUCT MODELING INTRODUCTION TO CONTINUOUS MATHEMATICAL MODELING COMMENT:PREREQ CHANGE	SPR/2000 - AUT/9999	3.0		LAST UPDT: 1/14/00					Y			.
AMATH 401	VEC CAL COMPLEX VAR VECTOR CALCULUS AND COMPLEX VARIABLES COMMENT:CHG CREDITS	AUT/2011 - AUT/9999	4.0		LAST UPDT:11/16/10					Y			.
AMATH 402	DYNAMCL SYSTS&CHAOS INTRODUCTION TO DYNAMICAL SYSTEMS AND CHAOS COMMENT:CHG DESC	AUT/2009 - AUT/9999	4.0		LAST UPDT: 9/14/09					Y			.
AMATH 403	METHODS PAR DIFF EQ METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS COMMENT:CHG DESC	AUT/2009 - AUT/9999	4.0		LAST UPDT: 9/14/09					Y			.
AMATH 422	COMP MODELS BIOLOGY COMPUTATIONAL MODELING OF BIOLOGICAL SYSTEMS COMMENT:CHG TITLES, DESC	SPR/2011 - AUT/9999	3.0		LAST UPDT:11/16/10					Y			.
AMATH 423	MATH ANLYS BIO MED MATHEMATICAL ANALYSIS IN BIOLOGY AND MEDICINE COMMENT:CHG TITLES, DESC	SPR/2011 - AUT/9999	3.0		LAST UPDT:12/20/10					Y			.
AMATH 424	MATH BIO SPAT MODS MATHEMATICAL BIOLOGY: SPATIOTEMPORAL MODELS	AUT/2009 - AUT/9999	3.0		LAST UPDT: 9/16/09					Y			.

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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	.
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 515	.
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 ANALYS 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						.

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					-ALL U	GRD	E	HYPH	UNE	RE	P & N	A S W	T	P R G			
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							
AMATH 525	MATH ANLYS BIO &MED MATHEMATICAL ANALYSIS IN BIOLOGY AND MEDICINE	SPR/2011 -	AUT/9999	5.0													
					LAST UPDT:	2/10/11			APPROVED:	12/21/10							
AMATH 531	THEORY CELL DYNAM MATHEMATICAL THEORY OF CELLUAR DYNAMICS	AUT/2010 -	AUT/9999	3.0													
					LAST UPDT:	6/16/10			APPROVED:	6/15/10							
AMATH 532	MATH GENOM MOL MED MATHEMATICS OF GENOME ANALYSIS &MOLECULAR MODELING	AUT/2011 -	AUT/9999	5.0													
					LAST UPDT:	9/21/11			APPROVED:	9/20/11							
AMATH 533	MOVEMENT CONTROL NEURAL CONTROL OF MOVEMENT: A COMPUTATIONAL PERSPE	WIN/2011 -	AUT/9999	3.0												AMATH 533 CSE 529	
					LAST UPDT:	1/03/11			APPROVED:	12/21/10							
AMATH 535	MATH ECOLOGY MATHEMATICAL ECOLOGY	SPR/2011 -	AUT/9999	5.0													
					LAST UPDT:	2/02/11			APPROVED:	12/31/10							
AMATH 536	SPATIAL MODELS SPATIAL MODELS IN ECOLOGY AND EPIDEMIOLOGY	SPR/2012 -	AUT/9999	5.0													
					LAST UPDT:	11/16/11			APPROVED:	11/15/11							
AMATH 540	INTRO CMPFIN/FINECN INTRO TO COMPUTATIONAL FINANCE & FIN ECONOMETRICS	SUM/2011 -	AUT/9999	5.0													
					LAST UPDT:	5/03/11			APPROVED:	4/19/11							
AMATH 541	INVESTMENT SCIENCE INVESTMENT SCIENCE	AUT/2011 -	AUT/9999	4.0													
					LAST UPDT:	9/23/11			APPROVED:	6/21/11							
AMATH 542	FIN DATA MODELING FINANCIAL DATA MODELING AND ANALYSIS IN R	WIN/2012 -	AUT/9999	4.0													
					LAST UPDT:	9/21/11			APPROVED:	9/20/11							
AMATH 543	PORTFOLIO OPT PORTFOLIO OPTIMIZATION AND ASSET MANAGEMENT	SPR/2012 -	AUT/9999	4.0													
					LAST UPDT:	2/29/12			APPROVED:	2/28/12							
AMATH 544	OTHER DERIVATIVES OPTIONS AND OTHER DERIVATIVES	AUT/2011 -	AUT/9999	4.0													
					LAST UPDT:	1/31/12			APPROVED:	6/21/11							
AMATH 545	FIN RISK MGMT I FINANCIAL RISK MANAGEMENT I	WIN/2012 -	AUT/9999	4.0													
					LAST UPDT:	9/21/11			APPROVED:	9/20/11							
AMATH 546	RISK MANAGEMENT FINANCIAL RISK MANAGEMENT II	SPR/2012 -	AUT/9999	4.0													
					LAST UPDT:	2/29/12			APPROVED:	2/28/12							

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COURSE	NUM	TITLE	EFFECTIVE	QUARTERS	QUARTER	OVER	D	D	S	H	F	P	I	L	C	Q	T	M
CURRIC					CREDITS	-ALL	U	GRD	U	N	E	A	S	T	P	R	G	I
						MAX	P	SYS	D	HY	PH	M	R	E				T
AMATH	551	TRADING SYSTEMS FOUNDATIONS OF TRADING SYSTEMS	SUM/2011 -	AUT/9999	3.0													
						LAST	UPDT:	5/03/11		APPROVED:	4/19/11							
AMATH	552	PORTFOLIO PERFORMANCE ANALYSIS AND BENCHMARKING	AUT/2011 -	AUT/9999	2.0													
						LAST	UPDT:	6/22/11		APPROVED:	6/21/11							
AMATH	553	FIN FORCAST METHOD FINANCIAL TIME SERIES FORECASTING METHODS	WIN/2012 -	AUT/9999	2.0													
						LAST	UPDT:	9/21/11		APPROVED:	9/20/11							
AMATH	554	ENDOW INVEST MGMT ENDOWMENT AND INSTITUTIONAL INVESTMENT MANAGEMENT	SPR/2012 -	AUT/9999	2.0													
						LAST	UPDT:	2/29/12		APPROVED:	2/28/12							
AMATH	567	APPLIED ANALYSIS APPLIED ANALYSIS COMMENT:CHG TITLES, DESC	AUT/2009 -	AUT/9999	5.0													
						LAST	UPDT:	9/29/09										
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							

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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								AMATH 579 CSE	579	
					LAST UPDT: 3/15/10			APPROVED: 2/16/10						
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/2012		5.0										
					LAST UPDT: 3/19/12			APPROVED: 9/15/09						
AMATH 582	COMP METH DATA ANLY COMPUTATIONAL METHODS FOR DATA ANAYLSIS COMMENT:CHG PREQ	WIN/2013 - AUT/9999		5.0										
					LAST UPDT: 3/19/12			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						
AMATH 584	APPL LINEAR ALGEBRA APPLIED LINEAR ALGEBRA AND INTRODUCTORY NUMERICAL COMMENT:CHANGE TITLES	AUT/2002 - AUT/9999		5.0								AMATH 584 MATH	584	
					LAST UPDT: 2/05/10			APPROVED: 6/07/79						
AMATH 585	BOUNDARY VALUE PROBS NUMERICAL ANALYSIS OF BOUNDARY VALUE PROBLEMS COMMENT:CHG PREQS	AUT/2007 - AUT/9999		5.0								AMATH 585 MATH	585	
					LAST UPDT: 2/05/10			APPROVED: 6/07/79						
AMATH 586	TIME DEPNDT PROBS NUMERICAL ANALYSIS OF TIME DEPENDENT PROBLEMS COMMENT:CHG JT STATUS	AUT/2009 - AUT/9999		5.0								AMATH 586 MATH ATM S	586 581	
					LAST UPDT: 2/05/10			APPROVED: 6/07/79						
AMATH 594	SPCL TPCS NUM ANLYS SPECIAL TOPICS IN NUMERICAL ANALYSIS	AUT/1994 - AUT/9999		2.0-03.0	15.0 Y							MATH 594 MATH	594	
					LAST UPDT: 9/22/94			APPROVED:11/01/84						
AMATH 595	SPCL TPCS NUM ANLYS SPECIAL TOPICS IN NUMERICAL ANALYSIS	AUT/1994 - AUT/9999		2.0-03.0	15.0 Y							MATH 595 MATH	595	
					LAST UPDT: 9/22/94			APPROVED:11/01/84						
AMATH 596	SPEC TPCS NUM ANLYS SPECIAL TOPICS IN NUMERICAL ANALYSIS	AUT/1994 - AUT/9999		2.0-03.0	15.0 Y							MATH 596 MATH	596	
					LAST UPDT: 9/22/94			APPROVED:11/01/84						

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AMATH 600	INDEPN DNT 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							