COLLEGE : C - Arts & Sciences
DEPARTMENT: APPLIED MATHEMATICS

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
AMATH	301	BEG SCI COMPUTING	AUT/2008 - AUT/9999	4.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
		BEGINNING SCIENTIFIC COMPUTING			LAST UPDT: 5/19/08			APPROVED: 2/23/96														
		COMMENT:CHG DESC, PREQ																				
AMATH	351	DIFF EQUATIONS	AUT/2002 - AUT/9999	3.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
		INTRODUCTION TO DIFFERENTIAL EQUATIONS AND APPL...			LAST UPDT: 3/04/02																	
		COMMENT:CHANGE PREREQUISITE																				
AMATH	352	LINR ALG & NUM ANLY	AUT/2000 - AUT/9999	3.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
		APPLIED LINEAR ALGEBRA AND NUMERICAL ANALYSIS			LAST UPDT:12/27/99																	
		COMMENT:CHANGE COURSE DESCRIPT																				
AMATH	353	PARTIAL DIFF EQNS	SPR/2000 - AUT/9999	3.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
		FOURIER ANALYSIS AND PARTIAL DIFFERENTIAL EQUATION			LAST UPDT: 1/14/00			APPROVED:10/23/80														
		COMMENT:PREREQ CHANGE																				
AMATH	383	INTRODUCT MODELING	SPR/2000 - AUT/9999	3.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
		INTRODUCTION TO CONTINUOUS MATHEMATICAL MODELING			LAST UPDT: 1/14/00			APPROVED:12/06/93														
		COMMENT:PREREQ CHANGE																				
AMATH	401	VEC CAL COMPLEX VAR	AUT/2009 - SUM/2011	4.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
		VECTOR CALCULUS AND COMPLEX VARIABLES			LAST UPDT:11/16/10			APPROVED: 2/28/94														
		COMMENT:CHG DESC																				
AMATH	401	VEC CAL COMPLEX VAR	AUT/2011 - AUT/9999	4.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
		VECTOR CALCULUS AND COMPLEX VARIABLES			LAST UPDT:11/16/10			APPROVED: 2/28/94														
		COMMENT:CHG CREDITS																				
AMATH	402	DYNAMCL SYSTS&CHAOS	AUT/2009 - AUT/9999	4.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
		INTRODUCTION TO DYNAMICAL SYSTEMS AND CHAOS			LAST UPDT: 9/14/09			APPROVED: 2/28/94														
		COMMENT:CHG DESC																				
AMATH	403	METHODS PAR DIFF EQ	AUT/2009 - AUT/9999	4.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
		METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS			LAST UPDT: 9/14/09																	
		COMMENT:CHG DESC																				
AMATH	422	INTRO MATH BIOLOGY	AUT/2009 - WIN/2011	3.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
		INTRODUCTION TO MATHEMATICAL BIOLOGY			LAST UPDT:11/16/10			APPROVED: 1/24/96														
		COMMENT:CHG DESC, PREQ																				
AMATH	422	COMP MODELS BIOLOGY	SPR/2011 - AUT/9999	3.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
		COMPUTATIONAL MODELING OF BIOLOGICAL SYSTEMS			LAST UPDT:11/16/10			APPROVED: 1/24/96														
		COMMENT:CHG TITLES, DESC																				

COLLEGE : C - Arts & Sciences
DEPARTMENT: APPLIED MATHEMATICS

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DU P	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	IS	NW	EECT	CMP	EQSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
AMATH	423	MATH BIO: STOCHASTIC	AUT/2009 - WIN/2011	3.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
		MATHEMATICAL BIOLOGY: STOCHASTIC MODELS				LAST UPDT:12/20/10				APPROVED: 1/24/96												
		COMMENT:CHG DESC																				
AMATH	423	MATH ANLYS BIO MED	SPR/2011 - AUT/9999	3.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
		MATHEMATICAL ANALYSIS IN BIOLOGY AND MEDICINE				LAST UPDT:12/20/10				APPROVED: 1/24/96												
		COMMENT:CHG TITLES, DESC																				
AMATH	424	MATH BIO SPAT MODS	AUT/2009 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		MATHEMATICAL BIOLOGY: SPATIOTEMPORAL MODELS				LAST UPDT: 9/16/09				APPROVED: 9/15/09												
AMATH	481	SCIENTIFIC COMPTG	AUT/2009 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		SCIENTIFIC COMPUTING				LAST UPDT: 9/16/09				APPROVED: 9/15/09												
AMATH	482	COMP METH DATA ANLY	AUT/2009 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		COMPUTATIONAL METHODS FOR DATA ANALYSIS				LAST UPDT: 9/16/09				APPROVED: 9/15/09												
AMATH	483	HI-PRFM SCI COMPG	AUT/2009 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		HIGH-PERFORMANCE SCIENTIFIC COMPUTING				LAST UPDT: 9/16/09				APPROVED: 9/15/09												
AMATH	490	SPECIAL TOPICS	AUT/1999 - AUT/9999	1.0-05.0	15.0	.		.		.	.	.	.	.	.	.	.	.	.			.
		SPECIAL TOPICS				LAST UPDT: 5/04/00				APPROVED: 2/22/99												
AMATH	498	SR PROJECT/THESIS	WIN/1999 - AUT/9999	1.0-06.0	6.0	.		.		.	.	.	.	.	.	.	.	.	.			.
		SENIOR PROJECT OR THESIS				LAST UPDT: 5/29/98				APPROVED: 5/27/98												
AMATH	499	READING/RESEARCH	WIN/1999 - AUT/9999	1.0-06.0	6.0	.	CR/NC	.		.	.	.	.	.	.	.	.	.	.			.
		UNDERGRADUATE READING AND RESEARCH				LAST UPDT: 5/29/98				APPROVED: 5/27/98												
AMATH	500	SPEC STDY APPL MATH	AUT/1986 - AUT/9999	0.0	12.0	Y		.		.	.	.	.	.	.	.	.	.	.			.
		SPECIAL STUDIES IN APPLIED MATHEMATICS				LAST UPDT: 8/22/95				APPROVED: 1/01/86												
AMATH	501	VEC CAL COMPLEX VAR	AUT/2010 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		VECTOR CALCULUS AND COMPLEX VARIABLES				LAST UPDT: 4/05/10				APPROVED: 9/15/09												
		COMMENT:10-12 PREQ CHG																				
AMATH	502	INTRO DYN SYS & CH	AUT/2010 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		INTRODUCTION TO DYNAMICAL SYSTEMS AND CHAOS				LAST UPDT: 4/05/10				APPROVED: 9/15/09												
		COMMENT:10-12 PREQ CHG																				
AMATH	503	METHODS PAR DIFF EQ	AUT/2010 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS				LAST UPDT: 4/05/10				APPROVED: 9/15/09												
		COMMENT:10-12 PREQ CHG																				

COLLEGE : C - Arts & Sciences
DEPARTMENT: APPLIED MATHEMATICS

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	CQS	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
AMATH	504	MATHTCL EPIDLGY	WIN/2010 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		MATHEMATICAL EPIDEMIOLOGY				LAST UPDT: 5/20/09				APPROVED:10/01/89												
		COMMENT:CHG TTL,DESC,PREQ,CREDITS																				
AMATH	505	FLUID DYNAMICS	SPR/2010 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.	AMATH 505	ATM S 505 OCEAN 511	.
		INTRODUCTION TO FLUID DYNAMICS				LAST UPDT: 2/10/10				APPROVED:10/05/92												
		COMMENT:MOVE JT COLLEGE																				
AMATH	506	APPL PROB AND STATS	AUT/2000 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.	STAT 506	STAT 506	.
		APPLIED PROBABILITY AND STATISTICS				LAST UPDT: 2/01/00				APPROVED:12/06/91												
		COMMENT:CHG TITLES, DESCRIP																				
AMATH	507	CAL VARIATIONS	AUT/2004 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		CALCULUS OF VARIATIONS				LAST UPDT: 3/29/04				APPROVED:12/01/83												
		COMMENT:CHG TITLES																				
AMATH	509	OPTIMAL CONTROL	SPR/1988 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	MATH 509	MATH 509	.
		THEORY OF OPTIMAL CONTROL				LAST UPDT: 8/30/94				APPROVED: 5/30/86												
AMATH	512	METH OF ENGR ANALYS	WIN/1998 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	AMATH 512	CHEM E512	.
		METHODS OF ENGINEERING ANALYSIS				LAST UPDT: 4/10/98				APPROVED: 2/01/88												
		COMMENT:REPLACES AMATH 400																				
AMATH	514	NETWORK OPTIMIZIN	AUT/1986 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	MATH 514	MATH 514	.
		NETWORKS AND COMBINATORIAL OPTIMIZATION				LAST UPDT:11/01/99				APPROVED: 5/30/86												
		COMMENT:EXTENDED FROM TEMPORARY																				
AMATH	515	FUNDAMNTL OPTIMIZTN	AUT/1999 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.	MATH 515	MATH 515 IND E 515	.
		FUNDAMENTALS OF OPTIMIZATION				LAST UPDT:11/03/99				APPROVED: 3/28/94												
AMATH	516	NUMERICAL OPTIMIZTN	SPR/1986 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	MATH 516	MATH 516	.
		NUMERICAL OPTIMIZATION				LAST UPDT: 8/30/94				APPROVED: 5/30/86												
AMATH	517	OPTIMIZTN UNCERTNTY	AUT/1985 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	AMATH 517	MATH 517	.
		OPTIMIZATION UNDER UNCERTAINTY				LAST UPDT: 8/30/94				APPROVED: 6/01/85												
AMATH	521	SPEC TOPICS MATH BIO	AUT/2000 - AUT/9999	5.0	15.0	.		.		.	.	.	.	.	.	.	.	.	.			.
		SPECIAL TOPICS IN MATHEMATICAL BIOLOGY				LAST UPDT: 2/29/00				APPROVED: 1/30/92												
		COMMENT:CHG TITLES, CREDITS, MAX, DESC																				
AMATH	522	INTRO MATH BIO	AUT/2010 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		INTRODUCTION TO MATHEMATICAL BIOLOGY				LAST UPDT: 4/05/10				APPROVED: 9/15/09												
		COMMENT:10-12 PREQ CHG																				

COLLEGE : C - Arts & Sciences
DEPARTMENT: APPLIED MATHEMATICS

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	SUM	HNR	HYPHEN	FEE	VLPA	IAS	NW	ELECT	ECMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
AMATH	523	MATH BIO:STOCH MODS	AUT/2009 - AUT/9999	5.0																		
		MATHEMATICAL BIOLOGY: STOCHASTIC MODELS			LAST UPDT: 9/16/09			APPROVED: 9/15/09														
AMATH	524	MATH BIO: SPAT MODS	AUT/2010 - AUT/9999	5.0																		
		MATHEMATICAL BIOLOGY: SPATIOTEMPORAL MODELS			LAST UPDT: 4/05/10			APPROVED: 9/15/09														
		COMMENT:10-12 PREQ CHG																				
AMATH	531	THEORY CELL DYNAM	AUT/2010 - AUT/9999	3.0																		
		MATHEMATICAL THEORY OF CELLUAR DYNAMICS			LAST UPDT: 6/16/10			APPROVED: 6/15/10														
AMATH	533	MOVEMENT CONTROL	WIN/2011 - AUT/9999	3.0																AMATH 533	CSE 529	
		NEURAL CONTROL OF MOVEMENT: A COMPUTATIONAL PERSPE			LAST UPDT: 1/03/11			APPROVED:12/21/10														
AMATH	567	APPLIED ANALYSIS	AUT/2009 - AUT/9999	5.0																		
		APPLIED ANALYSIS			LAST UPDT: 9/29/09																	
		COMMENT:CHG TITLES, DESC																				
AMATH	568	ADV METHODS ODE	WIN/2005 - AUT/9999	5.0																		
		ADVANCED METHODS FOR ORDINARY DIFFERENTIAL EQUATIO			LAST UPDT: 2/05/10			APPROVED: 6/07/79														
		COMMENT:CHANGE TITLES																				
AMATH	569	ADV METHOD PDE	SUM/2005 - AUT/9999	5.0																		
		ADVANCED METHODS FOR PARTIAL DIFFERENTIAL EQUATION			LAST UPDT: 3/29/04																	
		COMMENT:CHANGE TITLES																				
AMATH	570	ASYM PERT METH	AUT/2004 - AUT/9999	5.0																		
		ASYMPTOTIC AND PERTURBATION			LAST UPDT: 3/29/04			APPROVED: 3/13/97														
		COMMENT:CHG TITLES, DESCRIPTION																				
AMATH	571	SPECTRAL METHODS	WIN/2005 - AUT/9999	5.0																		
		SPECTRAL METHODS			LAST UPDT: 3/29/04			APPROVED: 3/13/97														
		COMMENT:CHG TITLES, DESCRIPTION																				
AMATH	572	INTRO APP STOCH	SUM/2005 - AUT/9999	5.0																		
		INTRODUCTION TO APPLIED STOCHASTIC ANALYSIS			LAST UPDT: 3/29/04			APPROVED: 3/13/97														
		COMMENT:CHG TITLES, DESCRIP, PREREQ																				
AMATH	573	COH STR, PATRN & F&S	AUT/2009 - AUT/9999	5.0																		
		COHERENT STRUCTURES, PATTERN FORMATION & SOLITONS			LAST UPDT: 4/20/09			APPROVED: 3/29/04														
		COMMENT:CHG TITLES, DESC																				
AMATH	574	CNSRV LAW/FINIT VOL	WIN/2005 - AUT/9999	5.0																		
		CONSERVATION LAWS AND FINITE VOLUME METHODS			LAST UPDT:11/04/04			APPROVED:10/25/04														

COLLEGE : C - Arts & Sciences
DEPARTMENT: APPLIED MATHEMATICS

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
AMATH	575	DYNAMICAL SYSTEMS	WIN/2005 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		DYNAMICAL SYSTEMS			LAST UPDT:11/01/04					APPROVED: 2/28/94												
		COMMENT:WAS AMATH 574;CHG TITLE,CR																				
AMATH	579	INTELLIGENT CONTROL	SPR/2010 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	AMATH 579	CSE 579	.
		INTELLIGENT CONTROL THROUGH LEARNING &OPTIMIZATION			LAST UPDT: 3/15/10					APPROVED: 2/16/10												
AMATH	581	SCIENTIFIC COMPUTING	AUT/2010 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		SCIENTIFIC COMPUTING			LAST UPDT: 4/05/10					APPROVED: 1/24/96												
		COMMENT:10-12 PREQ CHG																				
AMATH	582	COMP METH DATA ANLY	AUT/2009 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		COMPUTATIONAL METHODS FOR DATA ANAYLSIS			LAST UPDT: 9/16/09					APPROVED: 9/15/09												
AMATH	583	HI-PRFM SCI COMPG	AUT/2010 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		HIGH-PERFORMANCE SCIENTIFIC COMPUTING			LAST UPDT: 4/05/10					APPROVED: 9/15/09												
		COMMENT:10-12 PREQ CHG																				
AMATH	584	APPL LINEAR ALGEBRA	AUT/2002 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.	AMATH 584	MATH 584	.
		APPLIED LINEAR ALGEBRA AND INTRODUCTORY NUMERICAL			LAST UPDT: 2/05/10					APPROVED: 6/07/79												
		COMMENT:CHANGE TITLES																				
AMATH	585	BOUNDARY VALUE PROBS	AUT/2007 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.	AMATH 585	MATH 585	.
		NUMERICAL ANALYSIS OF BOUNDARY VALUE PROBLEMS			LAST UPDT: 2/05/10					APPROVED: 6/07/79												
		COMMENT:CHG PREQS																				
AMATH	586	TIME DEPNDT PROBS	AUT/2009 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.	AMATH 586	MATH 586	.
		NUMERICAL ANALYSIS OF TIME DEPENDENT PROBLEMS			LAST UPDT: 2/05/10					APPROVED: 6/07/79											ATM S 581	
		COMMENT:CHG JT STATUS																				
AMATH	594	SPCL TPCS NUM ANLYS	AUT/1994 - AUT/9999	2.0-03.0	15.0	Y		.		.	.	.	.	.	.	.	.	.	.	MATH 594	MATH 594	.
		SPECIAL TOPICS IN NUMERICAL ANALYSIS			LAST UPDT: 9/22/94					APPROVED:11/01/84												
AMATH	595	SPCL TPCS NUM ANLYS	AUT/1994 - AUT/9999	2.0-03.0	15.0	Y		.		.	.	.	.	.	.	.	.	.	.	MATH 595	MATH 595	.
		SPECIAL TOPICS IN NUMERICAL ANALYSIS			LAST UPDT: 9/22/94					APPROVED:11/01/84												
AMATH	596	SPEC TPCS NUM ANLYS	AUT/1994 - AUT/9999	2.0-03.0	15.0	Y		.		.	.	.	.	.	.	.	.	.	.	MATH 596	MATH 596	.
		SPECIAL TOPICS IN NUMERICAL ANALYSIS			LAST UPDT: 9/22/94					APPROVED:11/01/84												
AMATH	600	INDEPNDNT RSCH/STDY	WIN/1977 - AUT/9999	0.0	999.0	.	CR/NC	.	11	.	.	.	.	.	.	.	.	.	.			.
		INDEPENDENT RESEARCH OR STUDY			LAST UPDT: 4/19/10					APPROVED: 6/01/81												

COLLEGE : C - Arts & Sciences
DEPARTMENT: APPLIED MATHEMATICS

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
AMATH	700	MASTERS THESIS MASTERS THESIS	AUT/1976 - AUT/9999	0.0	999.0 LAST UPDT: 4/19/10	.	CR/NC	.	11	.	.	.	.	.	.	.	.	.	.	.	.	.
AMATH	800	DOCTORAL DISSERTATN DOCTORAL DISSERTATION	AUT/1976 - AUT/9999	0.0	999.0 LAST UPDT: 4/19/10	.	CR/NC	.	11	.	.	.	.	.	.	.	.	.	.	.	.	.