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 Beginning Scientific Computing	AUT/2013 - AUT/9999	4.0		.		.		.	.	.		.	Y	.	.	.	.			.
					LAST UPDT: 8/20/13			APPROVED: 2/23/96														
		COMMENT:EMAIL PREQ CHG																				
AMATH	351	DIFF EQUATIONS Introduction to Differential Equations and Applications	AUT/2013 - AUT/9999	3.0		.		.		.	.	.		.	Y	.	.	.	.			.
					LAST UPDT: 9/17/13																	
		COMMENT:CHG DESC																				
AMATH	352	LINR ALG & NUM ANLY Applied Linear Algebra and Numerical Analysis	AUT/2000 - AUT/9999	3.0		.		.		.	.	.		.	Y	.	.	.	.			.
					LAST UPDT:12/27/99																	
		COMMENT:CHANGE COURSE DESCRIPT																				
AMATH	353	PARTIAL DIFF EQNS Fourier Analysis and Partial Differential Equations	SPR/2000 - AUT/9999	3.0		.		.		.	.	.		.	Y	.	.	.	.			.
					LAST UPDT: 1/14/00			APPROVED:10/23/80														
		COMMENT:PREREQ CHANGE																				
AMATH	383	INTRODUCT MODELING Introduction to Continuous Mathematical Modeling	SPR/2000 - AUT/9999	3.0		.		.		.	.	.		.	Y	.	.	.	.			.
					LAST UPDT: 1/14/00			APPROVED:12/06/93														
		COMMENT:PREREQ CHANGE																				
AMATH	401	VEC CAL COMPLEX VAR Vector Calculus and Complex Variables	AUT/2013 - AUT/9999	4.0		.		.		.	.	.		.	Y	.	.	.	.			.
					LAST UPDT: 3/20/13			APPROVED: 2/28/94														
		COMMENT:CHG PREQ, DESC																				
AMATH	402	DYNAMCL SYSTS&CHAOS Introduction to Dynamical Systems and Chaos	AUT/2009 - AUT/9999	4.0		.		.		.	.	.		.	Y	.	.	.	.			.
					LAST UPDT: 9/14/09			APPROVED: 2/28/94														
		COMMENT:CHG DESC																				
AMATH	403	METHODS PAR DIFF EQ Methods for Partial Differential Equations	AUT/2013 - AUT/9999	4.0		.		.		.	.	.		.	Y	.	.	.	.			.
					LAST UPDT: 8/20/13																	
		COMMENT:EMAIL PREQ CHG																				
AMATH	422	COMP MODELS BIOLOGY Computational Modeling of Biological Systems	AUT/2013 - AUT/9999	3.0		.		.		.	.	.		.	Y	.	.	.	.			.
					LAST UPDT: 9/17/13			APPROVED: 1/24/96														
		COMMENT:CHG DESC																				

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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	423	MATH ANLYS BIO MED Mathematical Analysis in Biology and Medicine	SPR/2011 - AUT/9999	3.0		.		.		.	.	.	.	.	Y	.	.	.	.			.
					LAST UPDT:12/20/10 APPROVED: 1/24/96																	
		COMMENT:CHG TITLES, DESC																				
AMATH	424	MATH BIO SPAT MODS MATHEMATICAL BIOLOGY: SPATIOTEMPORAL MODELS	AUT/2009 - SUM/2014	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 2/07/14 APPROVED: 9/15/09 DROPPED: 9/17/13																	
		COMMENT:DROP COURSE																				
AMATH	481	SCIENTIFIC COMPTG Scientific Computing	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/20/13 APPROVED: 9/15/09																	
		COMMENT:EMAIL PREQ CHG																				
AMATH	482	COMP METH DATA ANLY Computational Methods for Data Analysis	WIN/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 3/19/12 APPROVED: 9/15/09																	
		COMMENT:CHG PREQ																				
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	SPR/2011 - AUT/9999	0.0	24.0	Y		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 4/18/11 APPROVED: 1/01/86																	
		COMMENT:CHG MAX CREDITS																				
AMATH	501	VEC CAL COMPLEX VAR Vector Calculus and Complex Variables	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/20/13 APPROVED: 9/15/09																	
		COMMENT:EMAIL PREQ CHG																				

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CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	IAS	NW	EECT	ECMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
AMATH	502	INTRO DYN SYS & CH Introduction to Dynamical Systems and Chaos	AUT/2013 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 8/20/13 APPROVED: 9/15/09																				
		COMMENT:EMAIL PREQ CHG																				
AMATH	503	METHODS PAR DIFF EQ Methods for Partial Differential Equations	AUT/2013 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 8/20/13 APPROVED: 9/15/09																				
		COMMENT:EMAIL PREQ CHG																				
AMATH	504	MATHTCL EPIDLGY Mathematical Epidemiology	AUT/2013 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 8/20/13 APPROVED:10/01/89																				
		COMMENT:EMAIL PREQ CHG																				
AMATH	505	FLUID DYNAMICS Introduction to Fluid Dynamics	AUT/2013 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	AMATH 505	ATM S 505 OCEAN 511	.
		LAST UPDT: 8/08/13 APPROVED:10/05/92																				
		COMMENT:EMAIL PREQ CHG																				
AMATH	506	APPL PROB AND STATS Applied Probability Statistics	AUT/2000 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	STAT 506	STAT 506	.
		LAST UPDT: 2/01/00 APPROVED:12/06/91																				
		COMMENT:CHG TITLES, DESCRIP																				
AMATH	507	CAL VARIATIONS Calculus of Variations	AUT/2013 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 8/20/13 APPROVED:12/01/83																				
		COMMENT:EMAIL PREQ CHG																				
AMATH	509	OPTIMAL CONTROL Theory of Optimal Control	SPR/1988 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	MATH 509	MATH 509	.
		LAST UPDT: 8/30/94 APPROVED: 5/30/86																				
AMATH	512	METH OF ENGR ANALYS Methods of Engineering Analysis	AUT/2012 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	CHEM E512	CHEM E512	.
		LAST UPDT: 7/23/12 APPROVED: 2/01/88																				
		COMMENT:12-14 PREQ CHG																				
AMATH	514	NETWORK OPTIMIZIN Networks and Combinatorial Optimization	AUT/2013 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	MATH 514	MATH 514	.
		LAST UPDT: 8/21/13 APPROVED: 5/30/86																				
		COMMENT:CHG DESC, PREQ																				

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CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	I&S	NW	ELECT	EMPS	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
AMATH	515	FUNDAMNTL OPTIMIZTN Fundamentals of Optimization	AUT/1999 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.	MATH 515	MATH 515 IND E 515	.
					LAST UPDT:11/03/99 APPROVED: 3/28/94																	
AMATH	516	NUMERICAL OPTIMIZTN Numerical Optimization	SPR/1986 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	MATH 516	MATH 516	.
					LAST UPDT: 8/30/94 APPROVED: 5/30/86																	
AMATH	517	OPTIMIZTN UNCERTNTY OPTIMIZATION UNDER UNCERTAINTY	AUT/1985 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	AMATH 517	MATH 517	.
					LAST UPDT: 8/30/94 APPROVED: 6/01/85																	
AMATH	521	SPEC TOPICS MATH BIO Special Topics in Mathematical Biology	WIN/2014 - AUT/9999	5.0	15.0	.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT:11/20/13 APPROVED: 1/30/92																	
		COMMENT:CHG DESC																				
AMATH	522	INTRO MATH BIO Introduction to Mathematical Biology	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/20/13 APPROVED: 9/15/09																	
		COMMENT:EMAIL PREQ CHG																				
AMATH	523	8ATH ANLYS BIO &MED Mathematical Analysis in Biology and Medicine	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/20/13 APPROVED: 9/15/09																	
		COMMENT:EMAIL PREQ CHG																				
AMATH	524	MATH BIO: SPAT MODS Mathematical Biology: Spatiotemporal Models	AUT/2013 - SUM/2014	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 2/13/14 APPROVED: 9/15/09																	
		COMMENT:EMAIL PREQ CHG																				
AMATH	524	MATH BIO: SPAT MODS Mathematical Biology: Spatiotemporal Models	AUT/2014 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 2/13/14 APPROVED: 9/15/09																	
		COMMENT:EMAIL PREQ CHG																				
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 CELLULAR DYNAMICS	AUT/2013 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 2/07/14 APPROVED: 6/15/10																	
		COMMENT:EMAIL PREQ CHG																				

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CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPHM	SUMR	HNRE	FE	VLPA	LI&AS	NW	EECT	LCMP	EQSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
AMATH	532	MATH GENOM MOL MED	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Mathematics of Genome Analysis and Molecular Modeling																				
					LAST UPDT: 8/20/13			APPROVED: 9/20/11														
		COMMENT:EMAIL PREQ CHG																				
AMATH	533	MOVEMENT CONTROL	WIN/2011 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	AMATH 533	CSE 529	.
		Neural Control of Movement: A Computational Perspective																				
					LAST UPDT: 1/03/11			APPROVED:12/21/10														
AMATH	534	NEURON DYNAMICS	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Dynamics of Neurons and Networks																				
					LAST UPDT: 8/20/13			APPROVED:12/21/10														
		COMMENT:EMAIL PREQ CHG																				
AMATH	535	MATH ECOLOGY	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Mathematical Ecology																				
					LAST UPDT: 8/20/13			APPROVED:12/31/10														
		COMMENT:EMAIL PREQ CHG																				
AMATH	536	SPATIAL MODELS	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Spatial Models in Ecology and Epidemiology																				
					LAST UPDT: 8/20/13			APPROVED:11/15/11														
		COMMENT:EMAIL PREQ CHG																				
AMATH	567	APPLIED ANALYSIS	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Applied Analysis																				
					LAST UPDT: 8/20/13																	
		COMMENT:EMAIL PREQ CHG																				
AMATH	568	ADV METHODS ODE	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Advanced Methods for Ordinary Differential Equations																				
					LAST UPDT: 8/20/13			APPROVED: 6/07/79														
		COMMENT:EMAIL PREQ CHG																				
AMATH	569	ADV METHOD PDE	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Advanced Methods for Partial Differential Equations																				
					LAST UPDT: 8/20/13																	
		COMMENT:EMAIL PREQ CHG																				
AMATH	570	ASYM PERT METH	AUT/2004 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Asymptotic and Perturbation Methods																				
					LAST UPDT: 3/29/04			APPROVED: 3/13/97														
		COMMENT:CHG TITLES, DESCRIPTION																				

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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	CSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
AMATH	571	SPECTRAL METHODS SPECTRAL METHODS	WIN/2005 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 3/29/04 APPROVED: 3/13/97																	
		COMMENT:CHG TITLES, DESCRIPTION																				
AMATH	572	INTRO APP STOCH Introduction to Applied Stochastic Analysis	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/20/13 APPROVED: 3/13/97																	
		COMMENT:EMAIL PREQ CHG																				
AMATH	573	COH STR, PATRN & F&S Coherent Structures, Pattern Formation and Solitons	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/20/13 APPROVED: 3/29/04																	
		COMMENT:EMAIL PREQ CHG																				
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	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/20/13 APPROVED: 2/28/94																	
		COMMENT:EMAIL PREQ CHG																				
AMATH	579	INTELLIGENT CONTROL Intelligent Control through Learning and Optimization	WIN/2014 - AUT/9999	3.0		.		.		.	.	.	.	.	.	.	.	.	.	AMATH 579	CSE 579	.
					LAST UPDT: 3/31/14 APPROVED: 2/16/10																	
		COMMENT:CHG DESC																				
AMATH	581	SCIENTIFIC COMPUTING Scientific Computing	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/20/13 APPROVED: 1/24/96																	
		COMMENT:EMAIL PREQ CHG																				
AMATH	582	COMP METH DATA ANLY Computational Methods for Data Analysis	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/20/13 APPROVED: 9/15/09																	
		COMMENT:EMAIL PREQ CHG																				
AMATH	583	HI-PRFM SCI COMPG High-Performance Scientific Computing	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 8/20/13 APPROVED: 9/15/09																	
		COMMENT:EMAIL PREQ CHG																				

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CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER-ALL MAX	DUP	GRD SYS	DED	HYPH	SUM	HNR	FEE	VLPA	I&S	NW	ELECT	EMPS	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
AMATH	584	APPL LINEAR ALGEBRA	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.	AMATH 584	MATH 584	.
		Applied Linear Algebra and Introductory Numerical Analysis																				
					LAST UPDT: 8/20/13			APPROVED: 6/07/79														
		COMMENT:EMAIL PREQ CHG																				
AMATH	585	BOUNDARY VALUE PROBS	AUT/2013 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.	AMATH 585	MATH 585	.
		Numerical Analysis of Boundary Value Problems																				
					LAST UPDT: 8/20/13			APPROVED: 6/07/79														
		COMMENT:EMAIL PREQ CHG																				
AMATH	586	TIME DEPNDT PROBS	SPR/2014 - AUT/9999	5.0		.		.		.	.	.	.	.	.	.	.	.	.	AMATH 586	MATH 586	.
		Numerical Analysis of Time Dependent Problems																				
					LAST UPDT:10/31/13			APPROVED: 6/07/79													ATM S 581	
		COMMENT:EMAIL PREQ CHG																				
AMATH	590	SPECIAL TOPICS	AUT/2013 - AUT/9999	1.0-05.0	30.0	.		.		.	.	.	.	.	.	.	.	.	.			.
		Special Topics																				
					LAST UPDT: 6/05/13			APPROVED: 6/04/13														
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														
AMATH	700	MASTERS THESIS	AUT/1976 - AUT/9999	0.0	999.0	.	CR/NC	.	11	.	.	.	.	.	.	.	.	.	.			.
		Master's Thesis																				
					LAST UPDT: 4/19/10			APPROVED: 6/01/81														
AMATH	800	DOCTORAL DISSERTATN	AUT/1976 - AUT/9999	0.0	999.0	.	CR/NC	.	11	.	.	.	.	.	.	.	.	.	.			.
		Doctoral Dissertation																				
					LAST UPDT: 4/19/10			APPROVED: 6/01/81														

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CFRM	460	MATH METHODS FOR QF Mathematical Methods for Quantitative Finance	SPR/2014 - SUM/2016	3.0	.	.	.	.	.	.	.	.	.	Y	.	.	Y	.			.
					LAST UPDT: 9/26/13 APPROVED:12/18/12																
		COMMENT:INITIAL DL, WAS AMATH 460																			
CFRM	460	MATH METHODS FOR QF Mathematical Methods for Quantitative Finance	AUT/2016 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	Y	.	.	Y	.			.
					LAST UPDT: 9/26/13 APPROVED:12/18/12																
		COMMENT:END INITIAL DL																			
CFRM	461	COMP FIN PROB STATS Probability and Statistics for Computational Finance	SPR/2014 - AUT/2016	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/26/13 APPROVED: 3/19/13																
		COMMENT:INITAL DL, WAS AMATH 461																			
CFRM	461	COMP FIN PROB STATS Probability and Statistics for Computational Finance	WIN/2017 - AUT/9999	3.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/26/13 APPROVED: 3/19/13																
		COMMENT:END INITAL DL																			
CFRM	462	INTRO CMPFIN/FINECN Introduction to Computational Finance and Financial Econometrics	SPR/2014 - AUT/2015	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/26/13 APPROVED: 4/19/11																
		COMMENT:WAS AMATH 462, INITIAL DL																			
CFRM	462	INTRO CMPFIN/FINECN Introduction to Computational Finance and Financial Econometrics	WIN/2016 - AUT/9999	5.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/26/13 APPROVED: 4/19/11																
		COMMENT:END INITIAL DL																			
CFRM	463	R PROG FOR QUANTFIN R Programming for Quantitative Finance	SPR/2014 - SUM/2014	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 3/19/14 APPROVED: 3/19/13																
		COMMENT:INITIAL DL, WAS AMATH 463																			
CFRM	463	R PROG FOR QUANTFIN R Programming for Quantitative Finance	AUT/2014 - WIN/2017	1.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 3/19/14 APPROVED: 3/19/13																
		COMMENT:CHG CREDITS																			
CFRM	463	R PROG FOR QUANTFIN R Programming for Quantitative Finance	SPR/2017 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/26/13 APPROVED: 3/19/13																
		COMMENT:END INITIAL DL																			

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	IS	NW	ELECT	ECMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
CFRM	500	SPEC STDY COMP FIN	WIN/2014 - AUT/9999	1.0-06.0	18.0	.		.		.	.	.	.	.	.	.	.	.	.			.
		Special Studies in Computational Finance and Risk Management																				
					LAST UPDT: 2/20/14					APPROVED: 2/18/14												
CFRM	510	SQL/VBA FOR FINANCE	SPR/2014 - SPR/2017	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Financial Data Access and Analysis with SQL, VBA, and Excel																				
					LAST UPDT: 9/26/13					APPROVED: 3/19/13												
		COMMENT:INITIAL DL, WAS AMATH 510																				
CFRM	510	SQL/VBA FOR FINANCE	SUM/2017 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Financial Data Access and Analysis with SQL, VBA, and Excel																				
					LAST UPDT: 9/26/13					APPROVED: 3/19/13												
		COMMENT:END INITIAL DL																				
CFRM	540	COMPFIN CAP MARKETS	SPR/2014 - SUM/2014	2.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Capital Markets and Data for Computational Finance																				
					LAST UPDT: 3/19/14					APPROVED: 3/19/13												
		COMMENT:INITIAL DL, WAS AMATH 540																				
CFRM	540	COMPFIN CAP MARKETS	AUT/2014 - WIN/2017	1.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Capital Markets and Data for Computational Finance																				
					LAST UPDT: 3/19/14					APPROVED: 3/19/13												
		COMMENT:CHG CREDITS																				
CFRM	540	COMPFIN CAP MARKETS	SPR/2017 - AUT/9999	2.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Capital Markets and Data for Computational Finance																				
					LAST UPDT: 9/26/13					APPROVED: 3/19/13												
		COMMENT:END INITIAL DL																				
CFRM	541	INVESTMENT SCIENCE	SPR/2014 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Investment Science																				
					LAST UPDT: 3/07/14					APPROVED: 6/21/11												
		COMMENT:WAS AMATH 541, PERM DL																				
CFRM	542	FIN DATA MODELING	SPR/2014 - SPR/2015	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Financial Data Modeling and Analysis in R																				
					LAST UPDT: 9/26/13					APPROVED: 9/20/11												
		COMMENT:INITIAL DL, WAS AMATH 542																				
CFRM	542	FIN DATA MODELING	SUM/2015 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
		Financial Data Modeling and Analysis in R																				
					LAST UPDT: 9/26/13					APPROVED: 9/20/11												
		COMMENT:END INITIAL DL																				

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
CFRM	543	PORTFOLIO OPT Portfolio Optimization and Asset Management	SPR/2014 - SUM/2015	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 9/26/13 APPROVED: 2/28/12																				
		COMMENT:INITIAL DL, WAS AMATH 543																				
CFRM	543	PORTFOLIO OPT Portfolio Optimization and Asset Management	AUT/2015 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 9/26/13 APPROVED: 2/28/12																				
		COMMENT:END INITIAL DL																				
CFRM	544	OTHER DERIVATIVES Options and Other Derivatives	SPR/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 3/07/14 APPROVED: 6/21/11																				
		COMMENT:WAS AMATH 544, PERM DL																				
CFRM	545	FIN RISK MGMT I Financial Risk Management I	SUM/2015 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 2/11/14 APPROVED: 9/20/11																				
		COMMENT:END INITIAL DL																				
CFRM	546	RISK MANAGEMENT Financial Risk Management II	SPR/2014 - SUM/2015	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 9/26/13 APPROVED: 2/28/12																				
		COMMENT:INITIAL DL, WAS AMATH 546																				
CFRM	546	RISK MANAGEMENT Financial Risk Management II	AUT/2015 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 9/26/13 APPROVED: 2/28/12																				
		COMMENT:END INITIAL DL																				
CFRM	547	CREDIT RISK MGMT Credit Risk Management	SPR/2014 - WIN/2016	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 9/26/13 APPROVED: 6/19/12																				
		COMMENT:INITAL DL, WAS AMATH 547																				
CFRM	547	CREDIT RISK MGMT Credit Risk Management	SPR/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 9/26/13 APPROVED: 6/19/12																				
		COMMENT:END INITIAL DL																				
CFRM	548	MONTECARLO MTHD FIN Monte Carlo Methods in Finance	SPR/2014 - WIN/2016	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			.
		LAST UPDT: 9/26/13 APPROVED: 6/19/12																				
		COMMENT:INITAL DL, WAS AMATH 548																				

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
CFRM	548	MONTECARLO MTHD FIN Monte Carlo Methods in Finance	SPR/2016 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 9/26/13			APPROVED: 6/19/12														
		COMMENT:END INITIAL DL																				
CFRM	551	TRADING SYSTEMS Introduction to Trading Systems	SPR/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 3/07/14			APPROVED: 4/19/11														
		COMMENT:WAS AMATH 551, PERM DL																				
CFRM	552	PORTFOLIO PERFORM Portfolio Performance Analysis and Benchmarking	SPR/2014 - SPR/2014	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 3/19/14			APPROVED: 6/21/11														
		COMMENT:END INITIAL DL, WAS AMATH 552																				
CFRM	552	PORTFOLIO PERFORM Portfolio Performance Analysis and Benchmarking	SUM/2014 - AUT/9999	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 3/19/14			APPROVED: 6/21/11														
		COMMENT:PERM DL; CHNG CREDITS																				
CFRM	553	FIN FORCAST METHOD Financial Time Series Forecasting Methods	SPR/2014 - SUM/2014	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 3/19/14			APPROVED: 9/20/11														
		COMMENT:INITIAL DL, WAS AMATH 553																				
CFRM	553	FIN FORCAST METHOD Financial Time Series Forecasting Methods	AUT/2014 - SPR/2015	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 3/19/14			APPROVED: 9/20/11														
		COMMENT:CHG CREDITS																				
CFRM	553	FIN FORCAST METHOD Financial Time Series Forecasting Methods	SUM/2015 - AUT/9999	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 9/26/13			APPROVED: 9/20/11														
		COMMENT:END INITIAL DL																				
CFRM	554	ENDOW INVEST MGMT Endowment and Institutional Investment Management	SPR/2014 - SUM/2014	2.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 3/19/14			APPROVED: 2/28/12														
		COMMENT:INITIAL DL, WAS AMTH 554																				
CFRM	554	ENDOW INVEST MGMT Endowment and Institutional Investment Management	AUT/2014 - SUM/2015	4.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
					LAST UPDT: 3/19/14			APPROVED: 2/28/12														
		COMMENT:CHG CREDIT																				

COLLEGE : C - Arts & Sciences
DEPARTMENT: APPLIED MATHEMATICS

CURRIC	COURSE NUM	TITLE	EFFECTIVE QUARTERS	QUARTER CREDITS	OVER -ALL MAX	DUP	GRD SYS	DED	HYPHM	SUNR	HNE	FE	VLPA	I&S	NW	ELECT	EMP	QSR	WRTNG	RESPONS COURSE	JOINT COURSES	OMIT
CFRM	554	ENDOW INVEST MGMT Endowment and Institutional Investment Management	AUT/2015 - AUT/9999	2.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/26/13 APPROVED: 2/28/12																	
		COMMENT:END INITIAL DL																				
CFRM	555	OPTIMIZATN MTHD FIN Optimization Methods in Finance	SPR/2014 - WIN/2016	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/26/13 APPROVED: 6/19/12																	
		COMMENT:INITIAL DL, WAS AMATH 555																				
CFRM	555	OPTIMIZATN MTHD FIN Optimization Methods in Finance	SPR/2016 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/26/13 APPROVED: 6/19/12																	
		COMMENT:END INITIAL DL																				
CFRM	556	COMP FIN STAT MODEL Statistical Modeling for Computational Finance	SPR/2014 - WIN/2017	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/26/13 APPROVED: 3/19/13																	
		COMMENT:INITIAL DL, WAS AMATH 556																				
CFRM	556	COMP FIN STAT MODEL Statistical Modeling for Computational Finance	SPR/2017 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/26/13 APPROVED: 3/19/13																	
		COMMENT:END INITIAL DL																				
CFRM	557	C++ Financial Software Development and Integration with C++	SPR/2014 - SPR/2016	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/26/13 APPROVED:12/18/12																	
		COMMENT:INITIAL DL, WAS AMATH 557																				
CFRM	557	C++ Financial Software Development and Integration with C++	SUM/2016 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/26/13 APPROVED:12/18/12																	
		COMMENT:END INITIAL DL																				
CFRM	558	FIXEDINCOME ANALYTC Fixed Income Analytics and Portfolio Management	SPR/2014 - WIN/2017	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/26/13 APPROVED: 3/19/13																	
		COMMENT:INITIAL DL, WAS AMATH 558																				
CFRM	558	FIXEDINCOME ANALYTC Fixed Income Analytics and Portfolio Management	SPR/2017 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 9/26/13 APPROVED: 3/19/13																	
		COMMENT:END INITIAL DL																				

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
CFRM	559	STOCH CALC-QUAN FIN Stochastic Calculus for Quantitative Finance	SUM/2014 - AUT/2017	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 2/11/14 APPROVED: 6/04/13																	
		COMMENT:INITIAL DL, WAS AMATH 559																				
CFRM	559	STOCH CALC-QUAN FIN Stochastic Calculus for Quantitative Finance	WIN/2018 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 2/11/14 APPROVED: 6/04/13																	
		COMMENT:END INITIAL DL																				
CFRM	560	AS MODELS & EST Actuarial Models and Estimation	SPR/2014 - SUM/2017	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT:10/16/13 APPROVED:10/15/13																	
		COMMENT:INITIAL DL																				
CFRM	560	AS MODELS & EST Actuarial Models and Estimation	AUT/2017 - AUT/9999	4.0		.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT:10/16/13 APPROVED:10/15/13																	
		COMMENT:END INITIAL DL																				
CFRM	600	INDEPNDNT RSCH/STDY Independent Research or Study	WIN/2014 - AUT/9999	1.0-06.0	18.0	.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 2/20/14 APPROVED: 2/18/14																	
CFRM	601	INTERNSHIP Internship	WIN/2014 - AUT/9999	1.0-06.0	30.0	.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 2/20/14 APPROVED: 2/18/14																	
CFRM	700	MASTERS THESIS Master's Thesis	WIN/2014 - AUT/9999	1.0-06.0	18.0	.		.		.	.	.	.	.	.	.	.	.	.			.
					LAST UPDT: 2/20/14 APPROVED: 2/18/14																	