## **Approved Electives for the Masters of Digital Sciences (MDS)**

The courses below are approved electives for the MDS. They are PLANNED for the semesters indicated and are not guaranteed. Some require prerequisites or approval to schedule. When that is the case, please email the person designated. INCLUDE: Your Name, Student Number, Concentration, and state that you are a DS student. Please be aware that if a class is closed, you may not ask that a space be made for you. You can, however, ask if there are plans for more space.

	Spring	Summer			res	Pre-requisites			
			Communication Studies						
	Even		001414	05004	On an analysis of the state of				
	Years		COMM	65661	Communication in an Information Society (3)				
	Even			65675	Communication, Uncertainty and Privacy Management				
	Years			03073	(3)				
	Even			65685	Communication and Cognition (3)				
V	Years?		ļ		•				
Х			Campin		Organizational Communication (3)  Proce (email mcurtiss@kent.edu) Those with an underg				
			-		chice (email mourtiss@kent.edu) Those with an underg				
			•			Seilio.ciiii			
			CS		Introduction to Database Systems Design (3)	C - 1 h - th - 1 in CC 22004			
Х					Secure Programming (3)	C or better in CS 33001			
			ļ		Design and Analysis of Algorithms (3)	CS 33001 and MATH 12003			
	V				Information Security (3)	CS 33001			
X	X		4		Algorithms and Programming I (4)	Email for pre-req removal			
Χ	X		4	61003	Algorithms and Programming II (4)	CS 61002			
	Odd Years			63901	Software Engineering Methodologies (3)				
			Digital :	Science	es (email klevand1@kent.edu)				
Χ	Х		DSCI	51510	Project Management & Team Dynamics (3)				
Χ	Х			59995	ST: Digital Systems Security (3)				
				60005	ST: Advanced Project Management (3)	DSCI 51510 or PM course in			
	Х			09993	131. Advanced Floject Management (3)	undergraduate curriculum.			
Χ	Х				Enterprise Architecture (3)				
	Х			62010	Business Architecture (3)	DSCI 61010			
	Х				Data Architecture (3)	DSCI 61010			
Χ	Х				Data Science (3)	DSCI 61010			
Χ	X				Application and Technology Architecture (3)	DSCI 61010			
Χ	Х	Χ			Internship in Digital Sciences (1-6)	Approval (form available online)			
Χ	Х	Х			Individual Investigation in Digital Sciences (1-3)	Approval (form available online)			
			Evaluat	ion and	Measurement				
			EVAL	65510	Statistics I for Educational Services (3)				
			Geogra	phy (en	nail mchurch1@kent.edu)				
Χ			GEOG		Geographic Information Science (3)				
Χ				59085	Web and Mobile GIS (3)				
			Informa			t vourself on waitlist http://faculty-			
			Information and Knowledge Management (even if there is space, put yourself on waitlist http://facul- I.slis.kent.edu/~iakmwaitlist/) For questions and semester offerings, email slisinform@kent.edu.						
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			IAKM	60002	Knowledge Organization Structures, Systems and Services (3)				
				60101	Information Architecture I (3)				
				60102	Information and Visual Design (3)				
				60104	Usability I (3)	IAKM 60120 and IAKM 60121			
				60105	Information Technologies (3)	IAKM 60120 and IAKM 60121			
				60110	Content Management Systems (3)	IAKM 60105			
			]		Usability II (3)	IAKM 60104 and IAKM 60121			
				60121	User Experience Design in Practice (3)	IAKM 60120			

Fall	Spring	Summer	Approved	d Electiv	res	Pre-requisites
				60301	Foundational Principles of Knowledge Management (3)	
				60302	Foundations of Document Management (3)	IAKM 60301
					Communities of Practice (3)	IAKM 60301
				60306	Organizational Culture Assessment (3)	IAKM 60301
				60311	Business Process Management (3)	IAKM 60301
					Business Intelligence-Competitive Intelligence	IAKM 60301
					Semantic Analysis Methods and Technologies (3)	IAKM 60301
					Health Informatics Management (3)	
					Legal Issues in Health Informatics (3)	IAKM 60401
					Health Information Systems (3)	IAKM 60401
					Health Records Management (3)	IAKM 60401
					Clinical Analytics (3)	IAKM 60401
				60412	Clinical Decision Support (3)	IAKM 60401
			Instructi		tion at	
	Х		ITEC		Digital Video in Education (3)	I
Χ	Х				Technology and Learning (3)	
Χ	Х	Х	1		Computer Applications in Education (3)	
Χ	Х	Х	1		Instructional Design (3)	
	Even Years				Simulation Games in Education (3)	
Even Years				67417	Advanced Instructional Design (3)	
	Χ		1	67425	Managing Technological Change (3)	
	Х		1 [		Designing Multimedia for Instruction (3)	
	Odd Years			67435	Virtual Reality (3)	
Χ			1	67437	Web Development for Educators (3)	
Χ		Χ	1 [		Instructional Applications of the Internet (3)	
	Χ		1 [	67442	Designing Online Courses (3)	
Odd Years				67444	Teaching Online Courses (3)	
Χ			1	67449	Research in Online Learning (3)	
			http://wv	ww2.ke	ormation Science (even if there is space, put yourself ent.edu/slis/courses/waitlisting.cfm) For questions en http://www2.kent.edu/slis/courses/index.cfm.	
Χ		Х	LIS		Information Needs, Seeking and Use (3)	
Χ					Metadata Architecture and Implementation (3)	LIS 60002
Χ			1 h		Digital Libraries (3)	LIS 60003
			1 h		Information Science (3)	
	Χ		1		Database Systems (3)	LIS 60003
					User Interfaces for Information Retrieval Systems (3)	
			Manage		nd Information Systems (email Iditchey@kent.edu) R s	U = Recent Undergraduates, PRO
PRO	RU	Х	MIS		Globalization and Technology Strategy (3)	
					Emerging Hardware and Software Technologies (3)	Approval
			1	64081	Data Communications (3)	Approval
			<del> </del>			Approval
				64082	Database Management Systems (3)	Approval Permission
RU	PRO			64082 64083		Approval Permission

Fall	Spring	Summer	Approve	d Electiv	es	Pre-requisites	
X	X		TECH	56411	3 2 3 3 7 2 3 7 2 7 3 7 7 7 7 7 7 7 7 7	TECH4/56330, CS 61002 or programming experience (email the professor and tell him what programming languages you know).	
				56330	Visual Basic Programming in Engineering Technology (3)		
Х	Х			56350	Network Management and Design Technology (3)		
				63020	Fiber Optic Systems (3)	TECH 33220	
				63050	TRIZ-Theory of Inventive Problem Solving (3)		
Х	X			64312	Advanced Wireless Telecommunication System and Network Technologies (3)	TECH 56312 or past content in topology, infrastructure and/or architecture of Wireless and PSTN	
				65330	Advanced Visual Basic Programming in Engineering Technology(3)	TECH 56330	
X	Х			66380	Advanced Networking (3)		
			Visual C	Visual Communication Design			
			VCD	55000	Graphic Design Perspectives (3)		
				60121	User Experience Design in Practice (3)		

REQUESTING APPROVAL FOR A CLASS NOT LISTED - If you would like to request a course that is not listed above to be counted toward your degree, you must (1) Sign up for the class (2) Email klevand1@kent.edu and ask that the class be allowed for you. PLEASE INCLUDE YOUR ID#, Concentration, and undergraduate major. The director will make a decision on whether the class will be counted for you.