Master of Digital Sciences

2014 Catalog Plan of Study   Concentration _____

Name_____ Kent State ID Number_____

Previous Degree (s): _____ Kent State Email _____

MAJOR REQUIREMENTS (Choose 9-10 hours)   Total _____

_____ CS 61002 Algorithms and Prog. I (4)   ___   _____ ITEC 67403 Instructional Design (3)   ___

_____ DSCI 61010 Enterprise Architecture (3) ___   _____ MIS 64042 Glob. & Tech. Strategy (3)   ___

_____ DSCI 64210 Data Science (3)   ___   _____ TECH 56350 Net. Mgmt. & Design Tech. (3)___

THESIS/NON-THESIS OPTION (6 hours, Choose 1 option)   Total _____

□ Thesis Option   _____   DSCI 69199 Thesis I (6)   ___

□ Non-Thesis Option _____   DSCI 60998 Capstone Project in Digital Sciences (3)   ___

PRE-APPROVED ELECTIVES Approved electives in DSCI or Related Programs (Choose 6-11 hours) Total _____

____ **DSCI** _____ _____   ___   ___

_____ _____   ___   ___

_____ _____   ___   ___

_____ _____   ___   ___

CONCENTRATION REQUIREMENTS (9-10 hours)   Total _____

□ **Enterprise Architecture**   □ **Digital Systems Management**

_____ DSCI 62010 Business Architecture (3)   ___   ____ MIS 64080 Emerging Hardware & Software

_____ DSCI 64010 Data Architecture (3)   ___   Technology (3)   ___

_____ DSCI 65010 Application & Tech. Arch. (3) ___   ____ MIS 64083 Info Sec.: Managerial Pers. (3)   ___

                                                        ____ MIS 64158 Ldrshp. & Mgrl. Assess. (3)   ___

□ **Digital Systems Training Technology**

_____ ITEC 67425 Managing Tech. Change (3)   ___   □ **Data Science**

_____ ITEC 67410 Simulation Games in Ed. (3)   ___   ____ DSCI 64010 Data Architecture (3)   ___

  or ____ ITEC 64735 Virtual Reality (3)   ____ IAKM 60002 Knowledge Org. Struct.,Sys. &

_____ ITEC 67432 Designing Multimedia for Instruc (3)   Services (3)   ___

  or ____ ITEC 67437 Web Dev. For Educators (3)   ___   ____ IAKM 60370 Semantic Analysis Methods &

                                                             Technologies (3)   ___

□ **Digital Systems Software Development**

_____ DSCI 65010 App. & Tech. Architecture (3) ___   **Minimum Total Hours: 32   My Total _____**

_____ CS 61003 Algorithms & Programming II (4)* ___

_____ CS 63901 Software Eng. Meth. (3)   ___

                                                        FINAL Approval for Graduation Semester _____

□ **Digital Systems Telecommunication Networks**

_____ TECH 56411 Req. Eng. & Analysis (3)   ___   _____ _____

_____ TECH 64312 Advanced Wireless Telecomm.   Advisor   Date

          Systems & Networking (3)   ___   _____ _____

_____ TECH 66380 Advanced Networking (3)   ___   Director   Date

NO MORE THAN 18 HOURS MAY BE TAKEN from one subject areas other than DSCI

 * May be replaced by another CS course for students with an undergraduate degree in Computer Science.

Pre-Approved Electives for the Master of Digital Sciences - *These courses have been pre-approved for the Master's degree in Digital Sciences. If you find other coursework that will help you reach your educational goals, submit the course description and your rationale to your professional advisor.*

Pre-Approved Electives in Digital Sciences or Related Area		
Communication Studies		
COMM	65661	Communication in an Information Society (3)
	65675	Communication, Uncertainty and Privacy Management (3)
	65685	Communication and Cognition (3)
	65851	Organizational Communication (3)
Computer Science		
CS	53005	Introduction to Database Systems Design (3)
	53401	Secure Programming (3)
	56101	Design and Analysis of Algorithms (3)
	57205	Information Security (3)
	61002	Algorithms and Programming I (4)
	61003	Algorithms and Programming II (4)
	63901	Software Engineering Methodologies (3)
Digital Sciences		
DSCI	61010	Enterprise Architecture (3)
	62010	Business Architecture (3)
	64010	Data Architecture (3)
	64210	Data Science (3)
	65010	Application and Technology Architecture (3)
	69992	Internship in Digital Sciences (1-6)
	69996	Individual Investigation in Digital Sciences (1-3)
Evaluation and Measurement		
EVAL	65510	Statistics I for Educational Services (3)
Geography		
GEOG	59070	Geographic Information Science (3)
Information and Knowledge Management		
IAKM	60002	Knowledge Organization Structures, Systems and Services (3)
	60101	Information Architecture I (3)
	60102	Information and Visual Design (3)
	60104	Usability I (3)
	60105	Information Technologies (3)
	60110	Content Management Systems (3)
	60114	Usability II (3)
	60121	User Experience Design in Practice (3)
	60301	Foundational Principles of Knowledge Management (3)
	60302	Foundations of Document Management (3)
	60305	Communities of Practice (3)
	60306	Organizational Culture Assessment (3)
	60311	Business Process Management (3)
	60312	Business Intelligence-Competitive Intelligence
	60370	Semantic Analysis Methods and Technologies (3)
	60401	Health Informatics Management (3)
	60402	Legal Issues in Health Informatics (3)
	60403	Health Information Systems (3)
	60410	Health Records Management (3)

	60411	Clinical Analytics (3)
	60412	Clinical Decision Support (3)
Instructional Technology		
ITEC	57413	Digital Video in Education (3)
	57427	Technology and Learning (3)
	57430	Computer Applications in Education (3)
	67403	Instructional Design (3)
	67410	Simulation Games in Education (3)
	67417	Advanced Instructional Design (3)
	67425	Managing Technological Change (3)
	67432	Designing Multimedia for Instruction (3)
	67435	Virtual Reality (3)
	67437	Web Development for Educators (3)
	67438	Instructional Applications of the Internet (3)
	67442	Designing Online Courses (3)
	67444	Teaching Online Courses (3)
	67449	Research in Online Learning (3)
Library and Information Science		
LIS	60613	Information Needs, Seeking and Use (3)
	60637	Metadata Architecture and Implementation (3)
	60638	Digital Libraries (3)
	60644	Information Science (3)
	60645	Database Systems (3)
	60646	User Interfaces for Information Retrieval Systems (3)
Management and Information Systems		
MIS	64042	Globalization and Technology Strategy (3)
	64080	Emerging Hardware and Software Technologies (3)
	64081	Data Communications (3)
	64082	Database Management Systems (3)
	64083	Information Security: A Managerial Perspective (3)
	64158	Leadership and Managerial Assessment (3)
Technology		
TECH	56411	Requirements Engineering and Analysis Technology (3)
	56330	Visual Basic Programming in Engineering Technology (3)
	56350	Network Management and Design Technology (3)
	63020	Fiber Optic Systems (3)
	63050	TRIZ-Theory of Inventive Problem Solving (3)
	64312	Advanced Wireless Telecommunication System and Network Technologies (3)
	65330	Advanced Visual Basic Programming in Engineering Technology(3)
	66380	Advanced Networking (3)
Visual Communication Design		
VCD	55000	Graphic Design Perspectives (3)
	60121	User Experience Design in Practice (3)

NO MORE THAN 18 HOURS MAY BE TAKEN from one subject areas other than DSCI

* May be replaced by another CS course for students with an undergraduate degree in Computer Science.