

ENTERPRISE ARCHITECTURE - GRADUATE CERTIFICATE

College of Communication and Information
 School of Digital Sciences
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 Kent Campus
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Description

The Enterprise Architecture graduate certificate is focuses on assisting organizations to review and improve their investments in technology and to ensure that their digital information, applications and technology are fully aligned with business goals and objectives. Graduates will know how to develop detailed blueprints of an organization’s current state, work with the stakeholders to prepare a vision of a future architecture, prepare an implementation roadmap and execute technology and business change.

This certificate can assist graduates to prepare for a career as a computer system architect, enterprise architect, information architect or solution architect.

FULLY OFFERED AT:

- Kent Campus

Gainful Employment Disclosure

Disclosure statement for this certificate.

Program Requirements

Certificate Requirements

[C631]

Code	Title	Credit Hours
Certificate Requirements		
DSCI 61010	ENTERPRISE ARCHITECTURE	3
DSCI 62010	BUSINESS ARCHITECTURE	3
DSCI 64010	DATA ARCHITECTURE	3
DSCI 65010	APPLICATION AND TECHNOLOGY ARCHITECTURE	3
Certificate Electives, choose from the following: ¹		6
COMM 65661	COMMUNICATION IN AN INFORMATION SOCIETY	
COMM 65675	COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT	
COMM 65685	COMMUNICATION AND COGNITION	
COMM 65851	ORGANIZATIONAL COMMUNICATION	
CS 53203	SYSTEMS PROGRAMMING ²	
CS 53401	SECURE PROGRAMMING ²	
CS 56101	DESIGN AND ANALYSIS OF ALGORITHMS ²	
CS 57205	INFORMATION SECURITY ²	
CS 57221	INTRODUCTION TO CRYPTOLOGY ²	
CS 61002	ALGORITHMS AND PROGRAMMING I	

CS 61003	ALGORITHMS AND PROGRAMMING II
CS 63005	ADVANCED DATABASE SYSTEMS DESIGN ²
CS 63201	ADVANCED OPERATING SYSTEMS ²
CS 63301	PARALLEL AND DISTRIBUTED COMPUTING ²
CS 63304	CLUSTER COMPUTING ²
CS 63901	SOFTWARE ENGINEERING METHODOLOGIES
CS 64201	ADVANCED ARTIFICIAL INTELLIGENCE ²
CS 64401	IMAGE PROCESSING ²
CS 67101	ADVANCED COMPUTER GRAPHICS ²
CS 67301	SCIENTIFIC VISUALIZATION ²
DSCI 51510	PROJECT MANAGEMENT AND TEAM DYNAMICS
DSCI 51610	DIGITAL SYSTEMS SECURITY
DSCI 59910	EMERGING TECHNOLOGIES IN DIGITAL SCIENCES
DSCI 59995	SPECIAL TOPICS IN DIGITAL SCIENCES
DSCI 60998	CAPSTONE PROJECT IN DIGITAL SCIENCES
DSCI 61010	ENTERPRISE ARCHITECTURE
DSCI 61310	ENTERPRISE ARCHITECTURE: ENTERPRISE ARCHITECTURE CENTER OF EXCELLENCE METHODOLOGY
DSCI 61510	PROJECT MANAGEMENT LEADERSHIP
DSCI 62010	BUSINESS ARCHITECTURE
DSCI 64010	DATA ARCHITECTURE
DSCI 64210	DATA SCIENCE
DSCI 65010	APPLICATION AND TECHNOLOGY ARCHITECTURE
DSCI 69992	INTERNSHIP IN DIGITAL SCIENCES ³
DSCI 69995	SPECIAL TOPICS IN DIGITAL SCIENCES
DSCI 69996	INDIVIDUAL INVESTIGATION IN DIGITAL SCIENCES
EVAL 65510	STATISTICS I FOR EDUCATIONAL SERVICES
ETEC 57403	INSTRUCTIONAL DESIGN
ETEC 57427	TECHNOLOGY AND LEARNING
ETEC 67410	SIMULATIONS AND GAMES IN EDUCATION
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE
ETEC 67432	DESIGNING MULTIMEDIA FOR EDUCATION
ETEC 67435	VIRTUAL AND AUGMENTED REALITY
ETEC 67442	DESIGNING ONLINE AND BLENDED COURSES
ETEC 67444	TEACHING ONLINE AND BLENDED COURSES
ETEC 67449	RESEARCH IN ONLINE AND BLENDED LEARNING
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE
GEOG 59076	SPATIAL PROGRAMMING
GEOG 59080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE
GEOG 59085	WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE
GEOG 59162	CARTOGRAPHY AND GEOVISUALIZATION
GEOG 59163	CARTOGRAPHY AND GEOVISUALIZATION LABORATORY
GEOG 69007	SPATIOTEMPORAL ANALYTICS
GEOG 69082	CYBERGIS
GEOG 69083	GEODATABASES
HI 60401	HEALTH INFORMATICS MANAGEMENT
HI 60402	LEGAL ISSUES IN HEALTH INFORMATICS
HI 60403	HEALTH INFORMATION SYSTEMS
HI 60410	HEALTH RECORDS MANAGEMENT

HI 60411	CLINICAL ANALYTICS
HI 60412	CLINICAL DECISION SUPPORT
KM 60301	FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT
KM 60305	COMMUNITIES OF PRACTICE
KM 60311	BUSINESS PROCESS MANAGEMENT
KM 60312	BUSINESS INTELLIGENCE-COMPETITIVE INTELLIGENCE
KM 60315	FOUNDATIONS OF DOCUMENT MANAGEMENT
KM 60316	ORGANIZATIONAL CULTURE ASSESSMENT
KM 60370	SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES
LIS 60613	INFORMATION NEEDS, SEEKING AND USE
LIS 60636	KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES
LIS 60637	METADATA ARCHITECTURE AND IMPLEMENTATION
LIS 60638	DIGITAL LIBRARIES
LIS 60644	INFORMATION SCIENCE
LIS 60645	DATABASE SYSTEMS
MIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY
MIS 64080	EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES
MIS 64081	DATA COMMUNICATIONS AND NETWORKING IN BUSINESS
MIS 64082	DATABASE MANAGEMENT AND DATABASE ANALYTICS
MIS 64083	INFORMATION SECURITY: A MANAGERIAL PERSPECTIVE
MIS 64158	LEADERSHIP AND MANAGERIAL ASSESSMENT
TECH 53222	COMPUTER HARDWARE ENGINEERING AND ARCHITECTURE
TECH 56330	VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY
TECH 56350	NETWORK MANAGEMENT AND DESIGN TECHNOLOGY
TECH 56411	REQUIREMENTS ENGINEERING AND ANALYSIS TECHNOLOGY
TECH 63010	COMPUTER HARDWARE
TECH 63020	FIBER OPTIC SYSTEMS
TECH 63031	PROGRAMMABLE LOGIC CONTROLLERS
TECH 63032	ADVANCED PROGRAMMABLE LOGIC CONTROLLERS
TECH 63050	TRIZ-THEORY OF INVENTIVE PROBLEM SOLVING
TECH 64312	ADVANCED WIRELESS TELECOMMUNICATION SYSTEM AND NETWORK TECHNOLOGIES
TECH 65330	ADVANCED VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY
TECH 66380	ADVANCED NETWORKING
VCD 55000	GRAPHIC DESIGN PERSPECTIVES
VCD 60121	USER EXPERIENCE DESIGN IN PRACTICE
UXD 60001	USER EXPERIENCE DESIGN PRINCIPLES AND CONCEPTS
UXD 60002	USER EXPERIENCE DESIGN IN PRACTICE
UXD 60101	INFORMATION ARCHITECTURE I
UXD 60103	RESEARCHING THE USER EXPERIENCE I
UXD 60104	USABILITY I
UXD 60113	RESEARCHING USER EXPERIENCE II

UXD 60114	USABILITY II
Approved Related Area Courses	
Minimum Total Credit Hours:	18
1	Electives are intended to be courses in digital sciences or a related program that complement the enterprise architecture coursework and add depth in an area of interest to the student. For example, a student who feels weak in business processes may choose electives on business strategy or leadership and organizational change. A student who wants further depth related to data architecture may choose electives in information architecture or data mining.
2	These computer science courses are recommended only for students with a computer science background.
3	Maximum 3 credit hours of DSCI 69992 may be applied toward approved electives in the Enterprise Architecture certificate.

Graduation Requirements

Minimum Certificate GPA

3.000