Enterprise Architecture - Graduate Certificate

College of Communication and Information
School of Digital Sciences
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Description

The Enterprise Architecture graduate certificate is focused 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]

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
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 GEOSCIENCE LABORATORY
GEOG 59163 CARTOGRAPHY AND GEOSCIENCE 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
ITEC 57413 DIGITAL VIDEO IN EDUCATION
ITEC 57427 TECHNOLOGY AND LEARNING
ITEC 57430 COMPUTER APPLICATIONS IN EDUCATION
ITEC 57432 DESIGNING MULTIMEDIA FOR INSTRUCTION
ITEC 57435 VIRTUAL REALITY
ITEC 57437 WEB DEVELOPMENT FOR EDUCATORS
ITEC 67438 INSTRUCTIONAL APPLICATIONS OF THE INTERNET
ITEC 67442 DESIGNING ONLINE COURSES
ITEC 67444 TEACHING ONLINE COURSES
ITEC 67449 RESEARCH IN ONLINE LEARNING
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 ADVANCED 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 60110 INFORMATION TECHNOLOGIES
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