ENTERPRISE ARCHITECTURE - GRADUATE CERTIFICATE

College of Communication and Information
School of Digital Sciences
129 Taylor Hall
Kent Campus
330-672-9105
digital-science@kent.edu
www.kent.edu/dsci

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

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tr>
<td>DSCI 61010</td>
<td>ENTERPRISE ARCHITECTURE</td>
<td>3</td>
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<tr>
<td>DSCI 62010</td>
<td>BUSINESS ARCHITECTURE</td>
<td>3</td>
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<tr>
<td>DSCI 64010</td>
<td>DATA ARCHITECTURE</td>
<td>3</td>
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<tr>
<td>DSCI 65010</td>
<td>APPLICATION AND TECHNOLOGY ARCHITECTURE</td>
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Certificate Electives, choose from the following: 1

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>COMM 65661</td>
<td>COMMUNICATION IN AN INFORMATION SOCIETY</td>
</tr>
<tr>
<td>COMM 65675</td>
<td>COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT</td>
</tr>
<tr>
<td>COMM 65685</td>
<td>COMMUNICATION AND COGNITION</td>
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<tr>
<td>COMM 65851</td>
<td>ORGANIZATIONAL COMMUNICATION</td>
</tr>
<tr>
<td>CS 53203</td>
<td>SYSTEMS PROGRAMMING</td>
</tr>
<tr>
<td>CS 53401</td>
<td>SECURE PROGRAMMING</td>
</tr>
<tr>
<td>CS 56101</td>
<td>DESIGN AND ANALYSIS OF ALGORITHMS</td>
</tr>
<tr>
<td>CS 57205</td>
<td>INFORMATION SECURITY</td>
</tr>
<tr>
<td>CS 57221</td>
<td>INTRODUCTION TO CRYPTOLOGY</td>
</tr>
<tr>
<td>CS 61002</td>
<td>ALGORITHMS AND PROGRAMMING</td>
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CS 61003 ALGORITHMS AND PROGRAMMING II
CS 63005 ADVANCED DATABASE SYSTEMS DESIGN
CS 63201 ADVANCED OPERATING SYSTEMS
CS 63301 PARALLEL AND DISTRIBUTED COMPUTING
CS 63304 CLUSTER COMPUTING
CS 63901 SOFTWARE ENGINEERING METHODOLOGIES
CS 64201 ADVANCED ARTIFICIAL INTELLIGENCE
CS 64401 IMAGE PROCESSING
CS 67101 ADVANCED COMPUTER GRAPHICS
CS 67301 SCIENTIFIC VISUALIZATION
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
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

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 |