# Enterprise Architecture - Graduate Certificate

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

## Program Requirements

### Certificate Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<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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<td>DSCI 65010</td>
<td>APPLICATION AND TECHNOLOGY ARCHITECTURE</td>
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Certificate Electives, choose from the following:  

1. COMM 65661 COMMUNICATION IN AN INFORMATION SOCIETY  
2. COMM 65675 COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT  
3. COMM 65685 COMMUNICATION AND COGNITION  
4. COMM 65851 ORGANIZATIONAL COMMUNICATION  
5. CS 53203 SYSTEMS PROGRAMMING  
6. CS 53401 SECURE PROGRAMMING  
7. CS 56101 DESIGN AND ANALYSIS OF ALGORITHMS  
8. CS 57205 INFORMATION SECURITY  
9. CS 57221 INTRODUCTION TO CRYPTOLOGY  
10. CS 61002 ALGORITHMS AND PROGRAMMING I  
11. CS 61003 ALGORITHMS AND PROGRAMMING II  
12. CS 63005 ADVANCED DATABASE SYSTEMS DESIGN  
13. CS 63201 ADVANCED OPERATING SYSTEMS  
14. CS 63301 PARALLEL AND DISTRIBUTED COMPUTING  
15. CS 63304 CLUSTER COMPUTING  
16. CS 63901 SOFTWARE ENGINEERING METHODOLOGIES  
17. CS 64201 ADVANCED ARTIFICIAL INTELLIGENCE  
18. CS 64401 IMAGE PROCESSING  
19. CS 67101 ADVANCED COMPUTER GRAPHICS  
20. CS 67301 SCIENTIFIC VISUALIZATION  
21. DSCI 51510 PROJECT MANAGEMENT AND TEAM DYNAMICS  
22. DSCI 51610 DIGITAL SYSTEMS SECURITY  
23. DSCI 59910 EMERGING TECHNOLOGIES IN DIGITAL SCIENCES  
24. DSCI 59995 SPECIAL TOPICS IN DIGITAL SCIENCES  
25. DSCI 60998 CAPSTONE PROJECT IN DIGITAL SCIENCES  
26. DSCI 61010 ENTERPRISE ARCHITECTURE  
27. DSCI 61310 ENTERPRISE ARCHITECTURE: ENTERPRISE ARCHITECTURE CENTER OF EXCELLENCE METHODOLOGY  
28. DSCI 61510 PROJECT MANAGEMENT LEADERSHIP  
29. DSCI 62010 BUSINESS ARCHITECTURE  
30. DSCI 64010 DATA ARCHITECTURE  
31. DSCI 64210 DATA SCIENCE  
32. DSCI 65010 APPLICATION AND TECHNOLOGY ARCHITECTURE  
33. DSCI 69992 INTERNSHIP IN DIGITAL SCIENCES  
34. DSCI 69995 SPECIAL TOPICS IN DIGITAL SCIENCES  
35. DSCI 69996 INDIVIDUAL INVESTIGATION IN DIGITAL SCIENCES  
36. EVAL 65510 STATISTICS I FOR EDUCATIONAL SERVICES  
37. ETEC 57403 INSTRUCTIONAL DESIGN  
38. ETEC 57427 TECHNOLOGY AND LEARNING  
39. ETEC 67410 SIMULATIONS AND GAMES IN EDUCATION  
40. ETEC 67425 MANAGING TECHNOLOGICAL CHANGE  
41. ETEC 67432 DESIGNING MULTIMEDIA FOR EDUCATION  
42. ETEC 67435 VIRTUAL AND AUGMENTED REALITY  
43. ETEC 67442 DESIGNING ONLINE AND BLENDED COURSES  
44. ETEC 67444 TEACHING ONLINE AND BLENDED COURSES  
45. ETEC 67449 RESEARCH IN ONLINE AND BLENDED LEARNING  
46. GEOG 59070 GEOGRAPHIC INFORMATION SCIENCE  
47. GEOG 59076 SPATIAL PROGRAMMING  
48. GEOG 59080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE  
49. GEOG 59085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE  
50. GEOG 59162 CARTOGRAPHY AND GEOVISUALIZATION  
51. GEOG 59163 CARTOGRAPHY AND GEOVISUALIZATION LABORATORY  
52. GEOG 69007 SPATIOTEMPORAL ANALYTICS  
53. GEOG 69082 CYBERGIS  
54. GEOG 69083 GEODATABASES  
55. HI 60401 HEALTH INFORMATICS MANAGEMENT  
56. HI 60402 LEGAL ISSUES IN HEALTH INFORMATICS  
57. HI 60403 HEALTH INFORMATION SYSTEMS  
58. HI 60410 HEALTH RECORDS MANAGEMENT  
59. HI 60411 CLINICAL ANALYTICS  
60. HI 60412 CLINICAL DECISION SUPPORT  
61. KM 60301 FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT
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.

These computer science courses are recommended only for students with a computer science background.

Maximum 3 credit hours of DSCI 69992 may be applied toward approved electives in the Enterprise Architecture certificate.

Graduation Requirements

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<th>Minimum Certificate GPA</th>
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Minimum Total Credit Hours: 18