

# Computer Information Systems

## Certificates

### College of DuPage Requirements

**Certificates of 20 credit hours or more:** Students must earn the final 10 credits at College of DuPage.

**Certificates of less than 20 credit hours:** Students must earn one-half of the total required credit hours as the final applicable hours at College of DuPage.

### Microcomputer Software Certificate

Total Required Credits: 35

Code: 4924

#### Certificate Requirements

CIS 1120	The Internet.....	2
CIS 1130	Windows Basics.....	2
CIS 1150	Introduction to Computer Information Systems.....	3
CIS 1160	Windows Command Line (DOS).....	2
CIS 1205	Office Suite Software and Integration.....	3
CIS 1221	Introduction to Spreadsheets.....	3
CIS 1222	Advanced Spreadsheets.....	2
CIS 1230	Microcomputer Database Application.....	3
CIS 1240	Presentation Graphics – Windows Based.....	2
CIS 1310	HTML and CSS.....	3
CIS 1600	Fundamentals of Operating Systems.....	3
CIS 1180	Introduction to Networking.....	3
CIS 1400	Programming Logic and Technique.....	4

### UNIX Certificate

Total Required Credits: 16

Code: 4929

#### Certificate Requirements

CIS 1150	Introduction to Computer Information Systems.....	3
CIS 2450	UNIX System Administration.....	3
CIS 1400	Programming Logic and Technique.....	4
CIS 1450	Introduction to Linux/Unix Operating Systems.....	3
CIS 2440	Shell Programming for UNIX/Linux.....	3

### Desktop Database Proficiency Certificate

Total Required Credits: 10

Code: 4932

#### Certificate Requirements

CIS 1150	Introduction to Computer Information Systems.....	3
CIS 1230	Microcomputer Database Application.....	3
CIS 2710	Database Management.....	4

### Spreadsheet Proficiency Certificate

Total Required Credits: 17

Code: 4933

#### Certificate Requirements

CIS 1130	Windows Basics.....	2
CIS 1150	Introduction to Computer Information Systems.....	3
CIS 1205	Office Suite Software and Integration.....	3
CIS 1221	Introduction to Spreadsheets.....	3
CIS 1222	Advanced Spreadsheets.....	2
CIS 1400	Programming Logic and Technique.....	4

### Web Programmer Certificate

Total Required Credits: 31

Code: 4934

#### Certificate Requirements

CIS 1120	The Internet.....	2
CIS 1130	Windows Basics.....	2
CIS 1150	Introduction to Computer Information Systems.....	3
CIS 1300	Web Design Software.....	3
CIS 1310	HTML and CSS.....	3
CIS 2320	JavaScript and Advanced HTML.....	3
CIS 1180	Introduction to Networking.....	3
CIS 1400	Programming Logic and Technique.....	4
CIS 2571	Introduction to Java.....	4
CIS 2572	Applications in Java.....	4

### Visual BASIC Language Proficiency Certificate

Total Required Credits: 15

Code: 4936

#### Certificate Requirements

CIS 1150	Introduction to Computer Information Systems.....	3
CIS 1400	Programming Logic and Technique.....	4
CIS 1510	Graphical User Interface Programming.....	4
CIS 2510	Advanced Graphical User Interface Programming.....	4

### C++ Language Proficiency Certificate

Total Required Credits: 15

Code: 4937

#### Certificate Requirements

CIS 1150	Introduction to Computer Information Systems.....	3
CIS 1400	Programming Logic and Technique.....	4
CIS 2541	C++ Language Programming.....	4
CIS 2542	Advanced C++ with Data Structure Applications.....	4

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# Computer Information Systems

## Certificates

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### Web Technician Certificate

Total Required Credits: 20

Code: 4939

#### Certificate Requirements

CIS 1120	The Internet.....	2
CIS 1130	Windows Basics.....	2
CIS 1150	Introduction to Computer Information Systems .....	3
CIS 1300	Web Design Software.....	3
CIS 1310	HTML and CSS.....	3
CIS 2320	JavaScript and Advanced HTML.....	3
CIS 1400	Programming Logic and Technique .....	4

### Enterprise Database Proficiency

Total Required Credits: 13

Code: 4945

#### Certificate Requirements

CIS 2720	Structured Query Language (SQL) I.....	3
CIS 2725	Enterprise SQL Application .....	3
OR		
CIS 2730	Enterprise Database Development.....	3
CIS 2770	Introduction to System Analysis & Design...3	
CIS 1400	Programming Logic and Technique .....	4

### Visual C++ Language Proficiency Certificate

Total Required Credits: 23

Code: 4946

#### Certificate Requirements

CIS 1150	Introduction to Computer Information Systems .....	3
CIS 1400	Programming Logic and Technique .....	4
CIS 2541	C++ Language Programming .....	4
CIS 2542	Advanced C++ with Data Structure Applications.....	4
CIS 2551	Introduction to MS Visual C++ .NET Programming .....	4
CIS 2552	Object-Oriented Program Development with VC++ .NET.....	4

### Java Language Proficiency Certificate

Total Required Credits: 15

Code: 4947

#### Certificate Requirements

CIS 1150	Introduction to Computer Information Systems .....	3
CIS 1400	Programming Logic and Technique .....	4
CIS 2571	Introduction to Java .....	4
CIS 2572	Applications in Java.....	4

### Linux Certificate

Total Required Credits: 16

Code: 4949

#### Certificate Requirements

CIS 1150	Introduction to Computer Information Systems .....	3
CIS 2455	Linux System Administration .....	3
CIS 1400	Programming Logic and Technique .....	4
CIS 1450	Introduction to Linux/UNIX Operating Systems .....	3
CIS 2440	Shell Programming for UNIX/Linux.....	3

### Advisers

Consult with a faculty adviser in this field:

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