

Computer Information Systems

Application Programmer Degree

Degree: Associate in Applied Science

Total Required Credits for Degree: minimum of 64

Program Requirements: 29 to 31

Emphasis Courses: 8 to 10

Program Electives: 1 to 9

General Education Credits: 18

Code: 3222

About the Program

The Computer Information Systems program prepares students to work in the field of computer technology. The Application Programmer degree is designed for students who want to complete their education in programming and technology at C.O.D. This program provides the first two years of coursework and transfers successfully to schools such as IIT, DePaul, SIU and Roosevelt.

Program web site: www.cod.edu/cis

Key First Semester Courses

CIS 1130	Windows Basics.....	2
CIS 1150	Introduction to Computer Information Systems.....	3
CIS 1160	Windows Command Line (DOS).....	2
CIS Elective	2 to 3
Engli 1101	English Composition I.....	3
Math 1428	College Algebra with Applications.....	3

Program Requirements

CIS 1150	Introduction to Computer Information Systems.....	3
CIS 1160	Windows Command Line (DOS).....	2
OR		
CIS 1230	Microcomputer Database Application.....	3
OR		
CIS 1310	HTML and CSS.....	3
CIS 1230	Microcomputer Database Application.....	3
OR		
CIS 2710	Database Management.....	4
CIS 1400	Programming Logic and Technique.....	4
CIS 1450	Introduction to Linux/UNIX Operating Systems.....	3
CIS 2541	C++ Language Programming.....	4
CIS 2542	Advanced C++ with Data Structure Applications.....	4
CIS 2770	Introduction to System Analysis and Design.....	3
CIS 2790	Systems Analyst Simulation.....	3
Total	29 to 31

Emphasis Courses

Choose one of the following: Java, Visual Basic or C++ Emphasis.

Java Emphasis: 8 credits

The following courses are required in addition to core program requirements.

CIS 2571	Introduction to Java.....	4
CIS 2572	Applications in Java.....	4

Visual Basic Emphasis: 10 credits

The following courses are required in addition to core program requirements.

CIS 1130	Windows Basics.....	2
CIS 1510	Graphical User Interface Programming.....	4
CIS 2510	Advanced Graphical User Interface Programming.....	4

Visual C++ Emphasis: 8 credits

The following courses are required in addition to core program requirements.

CIS 2551	Introduction to MS Visual C++ .NET Programming.....	4
CIS 2552	Object-Oriented Program Development with VC++ .NET.....	4

Program Electives

Select 1 to 9 credits from any 1000- or 2000-level CIS courses except 1110 and 1205. The following courses are recommended:

CIS 1600	Fundamentals of Operating Systems.....	3
CIS 2420	Microprocessor Assembly Language.....	4

General Education Requirements

Each candidate for an Associate in Applied Science (A.A.S.) degree shall satisfactorily complete a minimum of 18 credits in General Education.

Use the *Student Planning Worksheet* or consult a list of General Education categories and courses for the A.A.S. degree to decide what needs to be taken. Links can be found on the Computer Information Systems online program guide (go to www.cod.edu/cis.)

Under the specified General Education headings below, the following courses are required or recommended for the Application Programmer degree:

Communications: 6 credits required

Recommended courses: English 1101, 1102; Speech 1100

Physical/Life Sciences: 3 to 5 credits required

Select at least one course with a lab component.

Mathematics: 3 to 5 credits required

Recommended course: Mathematics 1220, 1533 or higher

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Humanities and Fine Arts: 3 credits required

Recommended course: Philosophy 1120

Social and Behavioral Sciences: 3 credits required

Recommended course: Economics 2201

Additional A.A.S. Degree Requirements

A minimum of 2 credits must be completed from the list of courses in the Global/Multicultural Studies or Contemporary Life Skills category.

Required course: Computer Information Systems 1150 or Computer Science 1400 (already listed under Program Requirements)

Advisers

Consult with a faculty adviser in this field:

	Phone
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