

TECHNICAL & VOCATIONAL PROGRAMS

Computer Information Technology

A 25 26 0 CIT Associate in Applied Science

The Computer Information Technology curriculum is designed to prepare graduates for employment with organizations that use computers to process, manage, and communicate information. This is a flexible program, designed to meet community information systems needs. Course work includes computer systems terminology and operations, logic, operating systems, database, data communications/networking, and related business topics. Studies will provide experience for students to implement, support, and customize industry-standard information systems. Graduates should qualify for a wide variety of computer-related, entry-level positions that provide opportunities for advancement with increasing experience and ongoing training. Duties may include systems maintenance and troubleshooting, support and training, and business applications design and implementation.

General Education Courses

<i>Communications</i>	<i>[prerequisite]</i>	<i>Seq</i>	<i>Class</i>	<i>Lab</i>	<i>Credits</i>
ENG 111 Expository Writing	[ENG 090/RED 090]	F1	3	0	3
ENG 111A Expository Writing Lab	[Coreq. - ENG 111]	F1	0	1	1
<i>Choose one of the following:</i>					
ENG 112 Argument Based Research	[ENG 111]	S1	3	0	3
or					
ENG 113 Literature Based Research	[ENG 111]	S1	3	0	3
or					
ENG 114 Professional Research & Reporting	[ENG 111]	S1	3	0	3
<i>Choose one of the following:</i>					
COM 110 Introduction to Communications	[ENG 090/RED 090]	S1	3	0	3
or					
COM 120 Interpersonal Communication	[ENG 090/RED 090]	S1	3	0	3
or					
COM 231 Public Speaking	[ENG 111]	S1	3	0	3
<i>Natural Science/Mathematics</i>	<i>[prerequisite]</i>	<i>Seq</i>	<i>Class</i>	<i>Lab</i>	<i>Credits</i>
MAT 115 Mathematical Models	[MAT 070]	F1	2	2	3
<i>Social/Behavioral Science:</i>	<i>[prerequisite]</i>	<i>Seq</i>	<i>Class</i>	<i>Lab</i>	<i>Credits</i>
(Choose 3 semester credit hours of approved courses from the CAA Course List)	[Varies]	S1	3	0	3
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<i>Humanities/Fine Arts:</i>	<i>[prerequisite]</i>	<i>Seq</i>	<i>Class</i>	<i>Lab</i>	<i>Credits</i>
(Choose 3 semester credit hours of approved courses from the CAA Course List. Humanities elective cannot be elementary foreign language course or com course.)	[Varies]	F1	3	0	3
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Major Courses: Core

<i>Core courses</i>	<i>[prerequisite]</i>	<i>Seq</i>	<i>Class</i>	<i>Lab</i>	<i>Credits</i>
CIS 110 Introduction to Computers	[ENG 090/RED 090/MAT 070]	F1	2	2	3
or CIS 111 Basic PC Literacy	[None]		1	1	2
CIS 115 Intro to Prog & Logic	[MAT 070 or MAT 080 or MAT 090 or MAT 095 or MAT 120 or MAT 161 or MAT 171 or MAT 175]	S1	2	3	3
CTS 285 System Analysis & Design	[CIS 115][Coreq. - DBA 110]	F2	3	0	3
DBA 110 Database Concepts	[CIS 110 or CIS 111]	F2	2	3	3
NOS 110 Operating Systems	[CIS 110 or CIS 111]	S1	2	3	3
SEC 110 Security Concepts	[NET 110]	S2	3	0	3
BUS 110 Introduction to Business	[ENG 090/RED 090]	F1	3	0	3
NET 110 Networking Concepts	[CIS 110 or CIS 111]	F2	2	2	3
CTS 120 Hardware/Software Support	[CIS 110 or CIS 111]	F2	2	3	3
CTS 289 Systems Support Project	[CTS 285]	S2	1	4	3
NOS 130 Windows Single User	[NOS 110]	F2	2	2	3
NOS 230 Windows Admin I	[NOS 130]	S2	2	2	3

Other Required Hours

<i>Courses</i>	<i>[prerequisite]</i>	<i>Seq</i>	<i>Class</i>	<i>Lab</i>	<i>Credits</i>
COE 110 World of Work	[None]	F1	1	0	1
CTS 130 Spreadsheets	[CIS 110 or CIS 111]	S1	2	2	3
CIT Elective*	[Varies]	F2	2	2-3	2-3
CIT Elective*	[Varies]	S2	2-3	2-3	3-4
CIT Elective*	[Varies]	S2	2	2-3	3
CIT Elective*	[Varies]	S2	2	2-3	3

*CIT Electives. Choose from the following:

<i>Courses</i>	<i>[prerequisite]</i>	<i>Class</i>	<i>Lab</i>	<i>Credits</i>
ACC 120 Principles of Financial Accounting	[MAT 070 or MAT 090/RED 090]	3	2	4
COE 112 Co-op Work Experience I	[min GPA 2.0, 9 hrs in major]	Varies	Varies	2
CSC 139 Visual Basic Programming	[Coreq. - CIS 110 or CIS 111]	2	3	3
CSC 151 Java	[CIS 110 or CIS 111/CIS 115 or CSC 139 or CSC 134]	2	3	3
CTS 230 Advanced Spreadsheet	[CTS 130]	2	2	3
DBA 115 Database Applications	[DBA 110]	2	3	3
DBA 120 Database Programming I	[DBA 110]	2	2	3
GIS 111 Introduction to GIS	[CIS 110 or CIS 111]	2	2	3
NOS 120 Linux/Unix Single User	[NOS 110]	2	2	3
NOS 231 Windows Admin II	[NOS 230]	2	2	3
WEB 110 Internet/Web Fundamentals	[None]	2	2	3

Total Semester Hours Required for Associate Degree: 69-72

The following lists course requirements for certificate programs. Please note that courses listed are not in order based on semester.

Computer Information Technology:

C 25 26 0D Certificate: Database Management

	<i>[prerequisite]</i>	<i>Class</i>	<i>Lab</i>	<i>Credits</i>
CIS 110 Intro to Computers	[ENG 090/RED 090/MAT 070]	2	2	3
or CIS 111 Basic PC Literacy	[None]	1	2	2
NOS 110 Operating Systems Concepts	[CIS 110 or CIS 111]	2	3	3
DBA 110 Database Concepts	[CIS 110 or CIS 111]	2	3	3
DBA 115 Database Applications	[DBA 110]	2	3	3
DBA 120 Database Programming I	[DBA 110]	2	2	3

Total Semester Hours Required for Certificate: 14-15



College of The Albemarle

Associate in Applied Science
 Computer Information Technology (A 25 26 0)
 Graduation Check Sheet – 2009-2011 Catalog

Listed below are the requirements for your degree program. It is your responsibility to keep this sheet up-to-date and review it with your advisor to know what you need to graduate. Complete the Graduation Application one semester prior to the intended date of graduation.

Title	Sequence	Credit	Grade	Semester
I. GENERAL EDUCATION COURSES				
Communications				
ENG 111 Expository Writing [P=ENG090/RED090, C=ENG111A]	F1	3	_____	_____
ENG 111A Expository Writing Lab [C=ENG111]	F1	1	_____	_____
ENG 112 Argument Based Research [P=ENG111]				
-or-				
ENG 113 Literature Based Research [P=ENG111]	S1	3	_____	_____
-or-				
ENG 114 [P=ENG111]				
COM 110 Introduction to Communications [P=ENG090/RED090]				
-or-				
COM 120 Interpersonal Communication [P=ENG090/RED090]	S1	3	_____	_____
-or-				
COM 231 Public Speaking [P=ENG111]				
Natural Science/Mathematics:				
MAT 115 Mathematical Models [P=MAT070]	F1	3	_____	_____
Social/Behavioral Science: (Choose 3 semester credit hours of approved courses from the CAA course List)				
_____ [P=Varies]	S1	3	_____	_____
Humanities/Fine Arts: (Choose 3 semester credit hours of approved courses from the CAA course List. Humanities elective cannot be foreign language course or COM course.)				
_____ [P=Varies]	F1	3	_____	_____
II. MAJOR COURSES:				
A. CORE				
CIS 110 Introduction to Computers [P=ENG090, RED090, MAT070] or CIS 111 Basic PC Literacy	F1	2-3	_____	_____
CIS 115 Intro to Prog & Logic [P=MAT070, MAT080, MAT090, MAT095, MAT120, MAT121, MAT161, MAT171, or MAT175]	S1	3	_____	_____
CTS 285 System Analysis & Design [P=CIS115; C=DBA110]	F2	3	_____	_____
DBA 110 Database Concepts [P=CIS110 or CIS111]	F2	3	_____	_____
NOS 110 Operating Systems [P=CIS110 or CIS111]	S1	3	_____	_____

SEC 110 Security Concepts [P=NET110]	S2	3	_____	_____
BUS 110 Introduction to Business [P=ENG090, RED090]	F1	3	_____	_____
NET 110 Networking Concepts [P=CIS110 or CIS111]	F2	3	_____	_____
CTS 120 Hardware/Software Support [P=CIS110 or CIS111]	F2	3	_____	_____
CTS 289 Systems Support Project [P=CTS285]	S2	3	_____	_____
NOS 130 Windows Single User [P=NOS110]	F2	3	_____	_____
NOS 230 Windows Admin I [P=NOS130]	S2	3	_____	_____
C. OTHER MAJOR HOURS				
COE 110 World of Work	F1	1	_____	_____
CTS130 Spreadsheets [P=CIS110 or CIS111]	S1	3	_____	_____
CIT Elective*	F2	2-3	_____	_____
CIT Elective*	S2	3-4	_____	_____
CIT Elective*	S2	3	_____	_____
CIT Elective*	S2	3	_____	_____

* **CIT Electives.** Choose from the following:

- ACC120 Principles of Financial Accounting [P=MAT070, RED090]
- COE112 Cooperative Education [P=min GPA 2.0, 9 hrs in major] (2 hrs)
- CSC139 Visual Basic Programming [C=CIS110 or CIS111]
- CSC151 Java [P=CIS110 or CIS111, CIS115 or CSC139 or CSC134]
- CTS230 Advanced Spreadsheet [P=CTS130]
- DBA115 Database Applications [P=DBA110]
- DBA120 Database Programming [P=DBA110]
- GIS111 Introduction to GIS
- NOS120 Linux/Unix Single User [P=NOS110]
- NOS231 Windows Admin II [P=NOS230]
- WEB110 Internet/Web Fundamentals

Total Semester Hours Required for Degree

69-72



College of The Albemarle
 Computer Information Technology
 Database management (C 25 26 0D)
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Listed below are the requirements for your degree program. It is your responsibility to keep this sheet up-to-date and review it with your advisor to know what you need to graduate. Complete the Graduation Application one semester prior to the intended date of graduation.

Title	Sequence	Credit	Grade	Semester
CIS 110 Introduction to Computers [P=ENG090, RED090, MAT070] or CIS 111 Basic PC Literacy	F1	2-3	_____	_____
DBA 110 Database Concepts [P=CIS110 or CIS111]	F1	3	_____	_____
NOS 110 Operating Systems [P=CIS110 or CIS111]	S1	3	_____	_____
DBA 115 Database Applications [P=DBA 110]	Varies	3	_____	_____
DBA 120 Database Programming I [P=DBA 110]	Varies	3	_____	_____
Total Hours for Certificate		14-15		