

COMPUTER

COMPUTER DEPARTMENT

Location:

Westview, Room 652

Program Chair, Computer

Information Systems/Computer Science:

Ellen Swieter, 970.339.6522

DEGREES/CERTIFICATE OFFERED:

Computer Information Systems

(A.A.S. Degree)

Data Base Administration (Certificate)

Information Technology (Certificate)

MCDBA (Certificate)

MCSA (Certificate)

MCSE (Certificate)

Network Analyst (Certificate)

Object Programming (Certificate)

Telecommunications (Certificate)

UNIX (Certificate)

Visual Basic Programming (Certificate)

Web Page Development (Certificate)

Computer Information Systems

Area of Study (A.A. Degree)

Computer Programming Area of Study

(A.S. or A.A. Degree)

Computer Science Area of Study

(A.S. or A.A. Degree)

Computer Science

(B.S. Degree Franklin University Alliance)

Management Information Systems

(B.S. Degree Franklin University Alliance)

Telecommunications Area of Study

(A.A. Degree)

COMPUTER INFORMATION SYSTEMS

Advisors and Faculty:

Doug Clay, 970.339.6489

Dick Gardner, 970.339.6289

Tim McFerron, 970.339.6271

Rex Parr, 970.339.6363

Distance Learning Advisor:

John Hutson, 970.339.6549

Potential Opportunities: The Computer Information Systems A.A.S. degree program is designed to prepare the student for entry level positions in one of the following areas: Data Base Administration, Web Page Development, Networking and Programming.

It is important to understand that the computer courses require extensive lab time beyond the scheduled class time.

Registration Requirement: The Computer Information Systems degree requires assessment testing in Reading and Arithmetic. Please see the Advising and Assessment department before meeting with a program advisor.

Students who earn a D or lower grade in a course that is a prerequisite to another course may not enroll in the higher level course. They are strongly advised to repeat the prerequisite course and demonstrate mastery of the material by earning a grade of C or better.

General Education Requirements: A minimum of 15 credit hours of General Education Courses are required with advisor's approval.

COMPUTER INFORMATION SYSTEMS

(Associate of Applied Science Degree)

(AAS CI01)

GENERAL EDUCATION

BUS 217	Business Communications and Report Writing	3
	OR	
ENG 121	English Composition I	3
COM 115	Public Speaking.	3
	OR	
COM 125	Interpersonal Communication	3
MAT 108	Technical Mathematics	4
	OR	
MAT 121	College Algebra (recommended)	4
HIS XXX	Any History course that will transfer	3

Select one of the following classes:

BUS 216	Legal Environment of Business	3
ECO 201	Principles of Macroeconomics.	3
ECO202	Principles of Microeconomics.	3
PSY 101	General Psychology I.	3
Total Credits from General Education:		16

REQUIRED COMPUTER CLASSES

CIS 124	Intro to Operating Systems.	3
CIS 118	Intro PC Applications.	3
CIS 145	Complete PC Database.	3
CNG 101	Intro to Networking	3
CSC 116	Logic and Program Design	3
CSC 150	Visual Basic Programming.	3
CSC 160	Computer Science I (C++)	4
CWB 110	Complete Web Authoring.	3
Total Credits from required Computer Classes:		25

CERTIFICATE CREDITS

Choose a minimum of 23 credits from the following courses that are part of the Computer Information Systems Certificates. 23
Total Credits for A.A.S. Degree: 64

WEB DESIGN & DEVELOPMENT

(Associate of Applied Science Degree)

(AAS GD01)

MGD 105	Typography & Layout.	3
MGD 109	Design & Color	3
MGD 111	Adobe Photoshop I.	3
MGD 112	Adobe Illustrator I.	3
MGD 141	Web Design I (Dreamweaver)	3
MGD 143	Motion Graphic Design I (Flash).	3
MGD 241	Sound Design I.	3
CIS 124	Intro to Operating Systems.	3
CSC 116	Logic and Programming	3
	OR	
CSC 150	Visual Basic.	3
CWB 110	Complete Web Authoring.	3
CWB 204	Cascading Style Sheets	3
CWB 205	Complete Web Scripting.	3
CWB 206	Web Date Base	3
MGD 243	Motion Graphic Design II (Flash)	3
MGD 258	Web Design Production	3
MGD 280	Internship	2
Total Credits:		47

GENERAL EDUCATION COURSES

ART 110	Art Appreciation	3
	OR	
ART 111	Art History	3
ENG 121	English Composition I	3
	OR	
ENG 131	Technical Writing I.	3
MAT 108	Technical Mathematics	4
	OR	
MAT 121	College Algebra.	4
PSY 100	Psychology of Work Place Relationships.	3
COM 115	Public Speaking.	3
	OR	
COM 125	Interpersonal Communications.	3
Total General Education Credits:		16
Total Credits for A.A.S. Degree		63

DATA BASE ADMINISTRATION CERTIFICATE

(CERT CI 13)

*CIS 118	Intro PC Applications.	3
*CIS 124	Intro to Operating Systems.	3
*CIS 145	Complete PC Database.	3
CIS 146	Database Application Development: Access.	3
CIS 240	Database Design and Development.	3
CIS 244	SQL PL/SQL	3
*CSC 116	Logic and Program Design	3
Total Credits for Database Administration Certificate		21

NOTE: (9 credits towards the degree)

The * identifies courses that are part of the Required Computer Classes in the Computer Information Systems A.A.S. Degree.

Computer, cont.

NETWORK ANALYST CERTIFICATE
(CERT CI 05)

*CIS 118 Intro PC Applications 3
 *CIS 124 Intro to Operating Systems 3
 CIS 267 Management of Information Systems 3
 *CNG 101 Intro to Networking 3
 CNG 102 Local Area Networks 3
 CNG 109 Computer Networking Lab. 3
 CNG 131 Network Security Fundamentals . 3
 *CSC 116 Logic & Program Design 3

Total Credits for Network Analyst Certificate: 24
NOTE: (12 credits towards the degree)

The * identifies courses that are part of the Required Computer Classes in the Computer Information Systems A.A.S. Degree.

UNIX CERTIFICATE
(CERT CI 06)

*CIS 118 Intro PC Applications 3
 *CIS 124 Intro to Operating Systems 3
 CIS 220 Fundamentals of UNIX 3
 CNG 109 Computer Networking Lab. 3
 CNG 131 Network Security Fundamentals . . 3
 *CSC 116 Logic and Program Design 3

Total Credits for UNIX Certificate: 18
NOTE: (9 credits towards the degree)

The * identifies courses that are part of the Required Computer Classes in the Computer Information Systems A.A.S. Degree.

WEB PAGE DEVELOPMENT CERTIFICATE
(CERT CI 08)

*CIS 118 Intro PC Applications 3
 *CIS 124 Intro to Operating Systems 3
 *CSC 116 Logic and Program Design 3
 *CWB 110 Complete Web Authoring 3
 CWB 204 Cascading Style Sheets 3
 CWB 205 Complete Web Scripting 3
 CWB 206 Web Data Base 3

Total Credits for Web Page Development Certificate: 21
NOTE: (9 credits towards the degree)

The * identifies courses that are part of the Required Computer Classes in the Computer Information Systems A.A.S. Degree.



OBJECT PROGRAMMING CERTIFICATE
(CERT CI 12)

*CIS 118 Intro PC Applications 3
 *CIS 124 Intro to Operating Systems 3
 *CSC 116 Logic and Program Design 3
 *CSC 160 Computer Science I (C++) 4
 CSC 160 Computer Science I (JAVA) 4
 CSC 161 Computer Science II (JAVA) 4

Total Credits for Object Programming Certificate: 21
NOTE: (8 credits towards the degree)

The * identifies courses that are part of the Required Computer Classes in the Computer Information Systems A.A.S. Degree.

VISUAL BASIC PROGRAMMING CERTIFICATE
(CERT CI 07)

*CIS 118 Intro PC Applications 3
 *CIS 124 Intro to Operating Systems 3
 *CSC 116 Logic and Program Design 3
 *CSC 150 Visual Basic Programming 3
 CSC 151 Advanced Visual Basic Programming 3

Total Credits for Visual Basic Programming Certificate: 15
NOTE: (3 credits towards the degree)

The * identifies courses that are part of the Required Computer Classes in the Computer Information Systems A.A.S. Degree.

INFORMATION TECHNOLOGY CERTIFICATE
(CERT CI 11)

This program offered through Continuing Education.

CIS 118 Intro PC Applications 3
 CIS 124 Intro to Operating Systems 3
 CIS 145 Complete PC Database 3
 CNG 101 Intro to Networking 3
 CSC 116 Logic and Program Design 3
 CSC 150 Visual Basic Programming 3
 CSC 160 Computer Science I (C++) 4
 CSC 160 Computer Science I (JAVA) 4
 CWB 110 Complete Web Authoring 3

Total Credits for Information Technology Certificate: 29

Computer, cont.

MCSA - MICROSOFT CERTIFIED SYSTEMS ADMINISTRATOR CERTIFICATION CERTIFICATE (CERT CI 10)

Advisor:

John Hutson, 970.339.6549

This program is offered only at the Aims Corporate Education Center. This certificate prepares a student for the Microsoft Certified Systems Administrator (MCSA) credential.

The MCSA certificate courses introduces students to the materials required to obtain the technical proficiency skills in administering and supporting existing Window based systems and to prepare for the Microsoft Certified Systems Administrator (MCSA) credential exams.

Required credits:

CNG 211	Windows XP Configuration	3
CNG 212	Managing a MS Windows Server Environment	4
CNG 213	Implementing a MS Windows Network Infrastructure	4
CNG 215	Managing a Microsoft Windows Network Environment	3

Choose one of the following courses:

CNG 222	Designing a Windows Secure Network	3
CNG 227	Administering a Microsoft SQL Database	3
Total Credits for MCSA Certification Certificate:		17

MCSE - MICROSOFT WINDOWS SYSTEMS ENGINEER CERTIFICATION CERTIFICATE (CERT CI 09)

Advisor:

John Hutson, 970.339.6549

This program is offered only at the Aims Corporate Education Center. The Microsoft Certified Systems Engineer (MCSE) credential is a premier technical certification for computer professionals.

The MCSE certificate courses introduce students to the materials required to obtain the technical proficiency necessary to lead organizations in the successful design, implementation, and administration of the Microsoft Windows platforms and to prepare for the Microsoft Certified Systems Engineer (MCSE) credential exams.

REQUIRED CREDITS

CNG 211	Windows XP Configuration	3
CNG 212	Managing a MS Windows Server Environment	4
CNG 213	Implementing a MS Windows Network Infrastructure	4

CNG 214	Plan a MS Windows Server Network Infrastructure	4
CNG 216	Plan a MS Windows Server Active Directory Infrastructure	4
CNG 221	Design MS Windows Active Directory and Network Infrastructure	3

Choose one of the following courses:

CIS 253	Programming a Microsoft SQL Server Database	3
CNG 215	Managing a Microsoft Windows Network Environment	3
CNG 222	Designing a Windows Secure Network	3
CNG 224	Microsoft Windows Wireless Network	3
CNG 227	Administering a Microsoft SQL Database	3
Total Credits for MCSE Certification Certificate:		25

COMPUTER INFORMATION SYSTEMS ADVISORY COMMITTEE

- Kirby Bahr
- Agrium, Inc.
- Jennifer Bailey
- Cyclone Software
- Dan Balsamo
- CU Medical
- Kevin Cox
- Colorado Network Management
- Dan Crogan
- Aztech Software
- Kevin Farrell
- Bonell Good Samariton
- John Hughes
- ACE Solutions, Inc.
- Jim Masuga
- Colorado Network Management

