

Spring 2007

ASSOCIATE IN APPLIED SCIENCE

| |
|---------------------------------|
| NAME |
| ID |
| EMAIL |
| PHONE |
| ADDRESS |
| PERMANENT ADDRESS- |
| |
| PERMANENT PHONE |
| |
| PERMANENT CONTACT PERSON |
| |
| PROGRAM |
| BEGIN DATE |

GENERAL EDUCATION REQUIREMENTS 22-23 CREDIT HOURS

| Course | Grade | Date |
|--|-------|------|
| ENG 101 Writing I | | |
| ENG 102 Writing II | | |
| Communications Course | | |
| Behavioral/Social Science Course | | |
| Heritage/Humanities Course | | |
| MT 150 College Algebra | | |
| Science Course with lab | | |
| CIS 100 OR computer literacy + database component. | | |

TECHNICAL CORE REQUIREMENTS 24-26 HOURS

| Course | Grade | Date |
|---|-------|------|
| CIS 120 Program Design and Development | | |
| CIS 130 Microcomputer Applications OR ET 107 Computer Applications for Technicians | | |
| ET 232 Software Maintenance OR CIS 110 Operating Systems Concepts | | |
| ET 234 Hardware Maintenance | | |
| NIS 160 Networking Core Technologies OR IT 120 Cisco Internetworking I OR IT 124 Nortel Networking Fundamentals | | |
| IT 170 Introduction to Database Design | | |
| IT 132 Web Page Development OR IT 130 Web Site Design and Production | | |
| Beginning Level Programming Language | | |

NOTES:

AAS MAJOR CORE REQUIREMENTS (Select One Option)

COMPUTER PROGRAMMING OPTION

| Course | Grade | Date |
|---|-------|------|
| CIS 220 Systems Analysis and Design | | |
| CIS 280 Internship | | |
| ACC 201 Financial Accounting I | | |
| 12 hrs Programming Language* | | |
| Management Course | | |
| <i>*12 hours of programming languages must include at least 6 credit hours above the beginning level.</i> | | |

WEB DEVELOPMENT AND ADMINISTRATION OPTION

| | | |
|--|--|--|
| CIS 248 Visual Basic II: Desktop App. OR CIS 249 Java Programming II | | |
| NIS 150 Introduction to Perl Scripting OR NIS 152 Introduction to Javascript | | |
| NIS 275 Internet Servers Administration | | |
| IT 132 Web Page Development OR IT 130 Web site design and Production <i>*Must take whichever one that was not done in the technical core</i> | | |
| IT 230 Advanced Web Page Design | | |
| IT 295 Web Development and Admin. Practicum: Site Implementation or CIS 280 Internship | | |
| IT 235 Data Driven Web Design | | |
| Technical Elective | | |

**NETWORKING ADMINISTRATION OPTION:
MCSE TRACK**

| Course | Grade | Date |
|---|-------|------|
| NIS 211 Admin. Microsoft Windows Professional | | |
| NIS 213 Admin. Microsoft Windows Server | | |
| NIS 214 Support. Microsoft Windows Network Infrast. | | |
| NIS 216 Implement. And Admin. Mic. Windows Dir. Serv. Topic | | |
| NIS 242 Designing a Windows Directory Svc Infrastructure | | |
| NIS 244 Designing a Windows Networking Services Infrastructure OR NIS 245 Designing a Secure Microsoft Windows Network | | |
| Take 3-6 hours of the MCSA track electives | | |

**NETWORKING ADMINISTRATION OPTION CISCO NETWORK
ASSOCIATE TRACK**

| | | |
|--|--|--|
| IT 122 Cisco Internetworking II | | |
| IT 122 Cisco Internetworking III | | |
| IT 222 Cisco Internetworking IV | | |
| NIS 213 Unix Administration OR NIS 213 Administering Microsoft Windows Server Topic | | |

NETWORKING ADMINISTRATION OPTION: MCSA TRACK

| Course | Grade | Date |
|---|-------|------|
| NIS 211 Admin. Microsoft Windows Professional | | |
| NIS 213 Admin. Microsoft Windows Server | | |
| NIS 214 Support. Microsoft Windows Network Infrast. | | |
| Take 1 of the MCSA track electives | | |
| 6 hrs. Technical Electives | | |

INFORMATION TECHNOLOGY CERTIFICATES

CISCO NETWORKING BASIC

| Course | Grade | Date |
|----------------------------------|-------|------|
| IT 120 Cisco Internetworking I | | |
| IT 122 Cisco Internetworking II | | |
| IT 220 Cisco Internetworking III | | |
| IT 222 Cisco Internetworking IV | | |

CISCO NETWORKING ENHANCED

| Course | Grade | Date |
|--|-------|------|
| IT 120 Cisco Internetworking I | | |
| IT 122 Cisco Internetworking II | | |
| IT 220 Cisco Internetworking III | | |
| IT 222 Cisco Internetworking IV | | |
| NIS 213 Admin. Microsoft Windows Professional OR NIS 230 UNIX Administration | | |
| Networking Administration Technical Elective | | |
| Networking Administration Technical Elective | | |

IT FUNDAMENTALS

| Course | Grade | Date |
|--|-------|------|
| CIS 120 Program Design and Development | | |
| CIS 130 Microcomputer Applications | | |
| ET 232 Software Maintenance | | |
| ET 234 Hardware Maintenance | | |
| NIS 160 Networking Core Technologies OR IT 120 Cisco Internetworking I | | |
| IT 170 Intro to Database Design | | |
| IT 132 Web Page Development OR IT 130 Web Site Design and Production | | |
| Beginning Level Programming Language | | |

MICROSOFT MCSA

| Course | Grade | Date |
|---|-------|------|
| NIS 160 Networking Core Technologies IT 120 | | |
| NIS 211 Admin. Microsoft Windows Professional | | |
| NIS 213 Admin. Microsoft Windows Server | | |
| NIS 214 Supporting Windows Network Infrastructure | | |
| Electives in Microsoft Track (3-6 hours) | | |

INFORMATION SECURITY

| Course | Grade | Date |
|---|-------|------|
| IT 250 Introduction to Security | | |
| IT 252 Attacks and Exploits | | |
| IT 254 Firewalls and Perimeter Defense | | |
| Information Security Technical Elective | | |

COMPUTER PROGRAMMING

| Course | Grade | Date |
|---|-------|------|
| CIS 120 Program Design and Development | | |
| CIS 220 Systems Analysis and Design | | |
| CIS 280 Internship OR COE 199 Cooperative Ed. | | |
| ACC 201 Financial Accounting | | |
| Beginning Level Program Language | | |
| 12 hours Programming Language* | | |
| <i>*12 hours of programming languages must include at least 6 credit hours above the beginning level.</i> | | |

WEB SITE DEVELOPER

| Course | Grade | Date |
|--|-------|------|
| CIS 120 Program Design and Development | | |
| IT 130 Web Site Design and Production | | |
| IT 132 Web Page Development | | |
| IT 170 Introduction to Database Design | | |
| IT 230 Advanced Web Page Development | | |
| IT 235 Data-Driven Web Design | | |
| Programming Language | | |
| Programming Language | | |
| Programming Language | | |
| Web Development Technical Elective | | |
| Web Development Technical Elective | | |

A+

| Course | Grade | Date |
|------------------------------------|-------|------|
| ET 232 Software Maintenance | | |
| ET 234 Hardware Maintenance | | |
| CIS 130 Microcomputer Applications | | |

| MCSE Track | | |
|---|-------|------|
| Course | Grade | Date |
| NIS 160 Networking Core Technologies or IT 120 | | |
| NIS 211 Administering Microsoft Windows Professional Topic | | |
| NIS 213 Administering Microsoft Windows Servers Topic | | |
| NIS 214 Supporting Windows Network Infrastructure | | |
| NIS 216 Implementing and Admin. Microsoft Dir. Services topic | | |
| NIS 244 Designing a Windows Networking Serv. Infra. Topic | | |
| NIS 242 Designing a Windows Dir. Services Infrastructure Topic or NIS 245 Designing a Secure Windows Networking Topic | | |
| MCSE Elective | | |

| Web Administrator | | |
|---|-------|------|
| Course | Grade | Date |
| NIS 160 Networking Core Technologies | | |
| NIS 275 Internet Servers Administration | | |
| ET 232 Computer Software Maintenance | | |
| ET 234 Computer Hardware Maintenance | | |
| IT 132 Web Page Development | | |
| NIS 150 Perl Programming I OR | | |
| NIS 152 Introduction to Javascript | | |

Course Listings

PROGRAMMING LANGUAGES

Beginning Level

CIS 143 COBOL Programming
 CIS 148 Visual Basic I
 CIS 149 Java Programming I
 CIS 155 Intro to C/C++ Programming
 CS 115 Intro to Computer Programming
 IT 147 SQL Programming*
 NIS 150 Intro to Perl Programming*
 NIS 152 Javascript*

Intermediate Level

CIS 232 Programming for Windows Environment
 CIS 243 COBOL Applications
 CIS 248 Visual Basic II: Desktop Apps.
 CIS 249 Java Programming II
 CIS 252 Intermediate C/C++ Programming
 CIS 262 Advanced C/C++ Programming
 CIS 215 Intro to Program Design, Abstraction and Problem Solving
 CIS 255 C++ Game Development I
 CIS 250 Java Game Development I

Advanced Level

CIS 258 Visual Basic III: Distributed Apps.
 CIS 259 Java Programming III
 CIS 262 C/C++ Game Development II Programming
 CIS 265 Java Game Development II

*Cannot be used to fulfill the technical core requirements

MANAGEMENT COURSES

BA 200 Small Business Management

BA 274 Human Resources
 BA 278 Supervisory Management
 BA 288 Self Management
 MFG 256 Production Management
 OST 275 Office Management
 QMS 101 Quality Management Principles
 QMS 102 Quality Management Skills

NETWORKING ADMINISTRATION TECHNICAL ELECTIVES

*Any course from another approved networking option track
 CIS 280 Internship
 ET 102 Blueprint Reading
 ET 112 Digital Logic Circuits
 ET 256 Microprocessor Fundamentals
 NIS 270 Network Hardware Installation and Troubleshooting
 NIS 295 Independent Problems in Network & Info Systems
 NIS 290 Selected Problems in Network & Info Systems
 NIS 246 Microsoft SQL Server System Admin. Topic
 NIS 247 Microsoft SQL Server Implementation
 IT 252 Attacks and Exploits
 IT 254 Firewalls and Perimeter Defense
 IT 250 Introduction to Security
 IT 270 Database Systems –Implementation and Management
 CMS 105 Multimedia Production and Application I
 ENGT 220 Digital II and ENG 221 Digital II Lab
 *Other technical electives approved by Program Coordinator

WEB DEVELOPMENT & ADMINISTRATION TECHNICAL ELECTIVES

NIS 211 Administering Windows Professional Topic
 NIS 213 Administering Windows Server Topic
 IT 147 SQL Programming
 NIS 246 Microsoft SQL Server System Administration
 IT 240 XML
 IT 236 Active Server Pages
 IT 240 XML

IT 236 Active server Pages
 IT 134 Macromedia Flash
 IT 270 Database Systems – Implementation and Management Programming Languages**

****Beginning Level Programming Languages appropriate for Web Development and Administration (must be different from technical core):**

CIS 148 Visual Basic I
 CIS 149 Java Programming I

INFORMATION SECURITY TECHNICAL ELECTIVES

NIS 245 Designing a Secure Microsoft Windows Network
 IT 256 UNIX/LINUX OS Security
 IT 258 Windows OS Security
 IT 259 Selected Topics in Information Security
 IT 255 Computer Forensics

MCSA TRACK ELECTIVES

NIS 216 Implementing and admin. Micro. Windows Dir. Services
 NIS 246 Microsoft SQL Server system Admin. Topic
 NIS 245 Designing a Secure Windows Network Topic
 NIS 262 Microsoft Internet Security and Acceleration Server
 NIS 264 Implementing and Managing Microsoft Exchange Server
 IT 210 Operating System Support AND
 IT 215 Application Support (together count as single elective)

MCSE TRACK ELECTIVES

NIS 242 Designing a Windows Director Services Infrastructure*
 NIS 245 Designing a Secure Windows Network Topic]
 NIS 246 Microsoft SQL Server System Administration Topic
 NIS 262 Microsoft Internet security and Acceleration Server
 NIS 264 Implement and Managing Microsoft Exchange Server
 IT 150 Introduction to Security

*Must be different than the course chosen for option