

# Information Technology – AAS – Database Administration Option (69-73 credits)

Available Completely Online

**Madisonville**  
Advising Plan

2009  
-2010

Name \_\_\_\_\_ Empl ID# \_\_\_\_\_

## General Education Requirements

Course	Hrs	Grade	Semester
ENG 101 Writing I	3		
ENG 102 Writing II	3		
MT 150 College Algebra	3		
Science course with a Lab	3-4		
Oral Communications Course	3		
Social Interaction Course	3		
Heritage/Humanities Course	3		

**Subtotal Credits: 21-22 hours**

## Technical Core Courses

Course	Hrs	Grade	Semester
CIS 120 Program Design & Development	3		
CIS 130 Microcomputer Applications <b>or</b> ET 107 Computer Applications for Technicians	3 (4)		
IT 105 Computer Maintenance Essentials <b>and</b> IT 205 Advanced Computer Maintenance <b>or</b>	3 3		
ET 232 Computer Software Maintenance <b>and</b> ET 234 Computer Hardware Maintenance <b>or</b>	(3) (3)		
CIS 110 Operating Systems Concepts <b>and</b> ET 234 Computer Hardware Maintenance	(3) (3)		
Introductory Networking Course (Refer to list of approved courses)	3-4		
IT 170 Introduction to Database Design	3		
IT 132 Web Page Development <b>or</b> IT 130 Web Site Design and Production	3 (4)		
Beginning Level Programming Language (Refer to list of approved courses)	3		

**Subtotal Credits: 24-27 hours**

## Database Administration Courses

Course	Hrs	Grade	Semester
IT 147 SQL Programming	3		
IT 270 Database Systems–Implementation & Mngmt	3		
<b>Server Administration Course:</b>			
NIS 213 Microsoft Windows Server <b>or</b> NIS 210 Unix Administration	3 (3)		
<b>Multi-Vendor Database Administration Courses:</b>			
NIS 246 Microsoft SQL Server Administration Topic:	3		
IT 272 Oracle Database Fundamentals I	3		
IT 266 Open Source Database Administration Topic:	3		
<b>Web/Database Programming Courses:</b>			
IT 235 Data-Driven Web Applications <b>or</b> IT 236 Active Server Pages <b>or</b> Functionally equivalent course approved by Program Coordinator	3 (3) (3)		
Technical Elective (Select from any IT Option technical electives list or "Selected Topics" course approved by Program Coordinator)	3		

**Subtotal Credits: 24 hours**

**Program Coordinator: Chet Cunningham**  
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## IT – AAS – Database Administration Option (69-73 credits)

### Program Coordinator's Notes:

The Math sequence to College Algebra (MT 150) is the following: MT055 (*Pre-Algebra*) & MT050 (*Developmental Math Workshop*) → MT065 (*Basic Algebra*) → MT 120 (*Intermediate Algebra*) → MT 150 (*College Algebra*).

### **Introductory Networking Courses:**

NIS 246, NIS 247, NIS 248, NIS 213

### **Beginning Level Programming Language Courses:**

CIS 143, IT 147, CIS 148, CIS 149, CIS 155, CS 115, NIS 150, NIS 152

### **Technical Electives for Computer Support Specialist Option:**

ACC 201, BA 287, BA 288, OST 275, IT 130, IT 230, IT 147, NIS 213, NIS 230, IT 235, CIS 230, OST 225, IT 180, Other Technical courses as Approved by Program Coordinator, Beginning Level Programming Course (*cannot be same course as taken in the technical core*), Intermediate Level Programming Language

### **Technical Electives for Network Administration Option:**

COE 199, NIS 270, NIS 290

### **Technical Electives for Web Development and Administration Option:**

NIS 211, NIS 213, NIS 275, IT 147, Nis 246, NIS 240, NIS 236, IT 134, IT 270

### Information Technology Program Course Sequence - Based on Prerequisites

*Note: This is a suggestion and may not apply to every case. Individual sequences may differ. Talk to your advisor or the IT program coordinator for additional information. Students entering this program will need to have basic computer skills such as would be obtained through CIS 100 (Introduction to Computers) or equivalent.\* Underlined, italicized courses are only required for the Electronic Commerce option, but may be used as technical electives for other options.*

