

COURSE SYLLABUS



Education That Works For a Lifetime

Course Title:	Special Topics: SQL Server Administration	Date of last update: (If this syllabus is being changed as part of a course change or new course proposal, enter the date of the proposal)
Department:	Applied Arts, CIS	
Curriculum:		
Course Descriptors: (Make certain that the course descriptors are consistent with college and Board of Trustees policies, and the current course numbering system.)	Course Code: (eg. ACC 101)	CIS 199
	Course Type:	X
	L: Lecture B: Lab X: Combined Lecture/Lab U: Studio N: Internship P: Practicum D: Distance Learning I: Individual / Independent	
	Credit Hours:	3
	Developmental: (yes/no)	
	Contact Hours:	
	Lecture:	
	Lab:	
	Clinical:	
	TOTAL:	3
	Class Maximum:	24
	Semesters Offered:	Fall
Prerequisites:	Database Concepts	
Corequisites:		
Other Requirements:		
Catalog Course Description: (Check with the Public Information Office to assure consistent taxonomy, terminology and style.)	Introduces students to Microsoft SQL Server. Students will gain practical experience performing database administration tasks using SQL Server. Topics such as installation, maintenance and administration, object security, query analyzer, backup and recovery will be covered.	
Course Objectives & Their Evaluation: (A broad, content-based statement about what the instructor will attempt to achieve in the course.)	<ol style="list-style-type: none"> 1. Install multiple SQL server instances 2. Create, monitor and manage databases 3. Implement login procedures, database and object security 4. Perform backups and recovery 5. Develop a database maintenance plan 6. Retrieve data using the query analyzer <p>Students will be evaluated through a variety of measures, including, but not limited to:</p> <ol style="list-style-type: none"> 1. Hands-on exercises 2. Examinations 3. Homework assignments 	
Specific Outcomes: (Measurable skills students will be expected to demonstrate or specific tasks the student should be able to perform, as evidence that the course content has been mastered.)	<p>Upon successful completion of this course students will be able to:</p> <ol style="list-style-type: none"> 1. Utilize the key components of SQL Server 2. Implement a database schema with SQL Server Enterprise Manager 3. Create and manage databases, files and transaction logs 4. Effectively administer SQL Server using Enterprise Manager and Transact-SQL 5. Retrieve and modify data with SQL Tools 6. Replicate data between databases 7. Resolve resource contention problems 8. Utilize SQL server recovery models to backup and restore databases 	
Topical Outline:	<ol style="list-style-type: none"> 1. SQL Server Overview 2. Installing and Upgrading SQL Server 	

3. Managing Database Files
4. Managing Security
5. Performing Administrative Tasks
6. Backing Up Databases
7. Restoring Databases
8. Monitoring SQL Server Performance
9. Transferring Data
10. Introduction to SQL Server Replication
11. Advanced Replication
12. Maintenance and Troubleshooting with SQL Server

**Suggested
Instructional
Materials**

Including but not limited to:
[SQL Server Administration](#) by Mark Linesenbardt and Shane Stigler

**Resources,
Equipment, & Special
Facilities Required:**

Computer lab.