

# Computer Database Management One-Year Certificate

PROFESSIONAL TECHNICAL  
2013-2014 Certificate Requirements

## Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS	102	Programming Fundamentals	5		
CS	106	Database Systems	5		
CS	117	Computer Ethics <i>or</i>	2		
CS	118	Customer Service	3		
CS	140	SharePoint	5		
CS	202	Programming Fundamentals 2	5		
CS	206	Database Design	5		
CS	221	SQL Server Administration	5		
CS	225	SQL Server Programming	5		
CS	228	Windows Server	5		
<b>Select 5 additional credits from any CS courses</b>					
			5		

**Subtotal 47-48**

## General Education

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
ENG&	101+	English Composition <i>or</i> above	5		
MATH	106+	Business Mathematics <i>or</i> above	5		
<b>Psychology or Sociology (select 5 credits)</b>					
PSYC&	100+	General Psychology <i>or</i> above <i>or</i>	5		
SOC&	101	Intro to Sociology <i>or</i>	5		
SOC&	201	Social Problems	5		
<b>Communication Studies (select 3-5 credits)</b>					
CMST	101	Speech Essentials <i>or</i>	3		
CMST	110	Communication Behavior <i>or</i>	3		
CMST&	220	Public Speaking <i>or</i>	5		
CMST&	210	Interpersonal Communication <i>or</i>	5		
CMST	260	Multicultural Communication	5		

**Subtotal 18-20**

**Total Credits Required 65-68**

Students who complete this certificate will be able to develop logical data models, code SQL statements, create physical databases, manage and maintain databases, and install and configure SQL server. The students also have the skills to develop information-based systems with Graphical User Interfaces that interface with SQL server and other Relational Database Management Systems. Career opportunities: data technician, data analyst, and SQL programmer.