[DATABASE SYSTEMS](#) CERTIFICATE: 238

Total Credits: 20
Catalog Edition 19-20

Name: **Date**:   **ID #:**

CERTIFICATE REQUIREMENTS	Course	Hours	Grade
	CS 140/**CMSC 140**	3	
	CS 215/**CMSC 222**	3	
	CMAP 242/**CMAP 245**	3	
	CA 272/CMAP 272/ **TECH 272**	4	
	CA 278/CMAP 278/ **TECH 278**	4	
CA 282/CMAP 282/**TECH 282 or** CA 288/CMAP 288/**TECH 288**		3	

Overall GPA of 2.0 is required to graduate

Total Credits: [ ]

This certificate curriculum provides training, skills, and knowledge that prepare students for employment as entry-level database programmers and designers, or provides current professionals with essential database programming and design skills.

Students will create Microsoft Access and web database applications as well as write database user interfaces in the Visual Basic.Net environment.

[Database Systems Website](#)

Last Modified: May 2019

Advising Worksheet Contact: [Anthony Solano](#)

See an [advisor](#) to submit an [Application for Graduation](#) the semester BEFORE you intend to graduate.

This UNOFFICIAL document is for planning purposes ONLY and completion does not guarantee graduation.

This certificate is a career program and may not readily transfer to four year colleges/universities (except in special cases.) Visit [transfer planning](#) for more information.