

Data Management Certificate

Semester I			Semester II		
COSC 1336	Programming Fundamentals I (Fall only)	3	ACCT 2401	Principles of Accounting I or	4
			ACNT 1403	Introduction to Accounting I	
BCIS 1405	Business Computer Applications	4	BUSI 1301	Business Principles	3
ITNW 1454	Implementing and Supporting Servers (Fall only)	4	ITSC 1407	UNIX Operating System I	4
ITSE 1445	Introduction to Oracle SQL (Fall only) or		ITSE 1356	Introduction to XML or	3-4
			+ITSE 2454	Advanced Oracle PL/SQL	
ITSE 2409	Database Programming (Fall only)	4		Approved Elective	<u>3-4</u>
ITSE 2313	Web Authoring (Fall Only)	<u>3</u>			17-19
		18		TOTAL	35-37