



**Computer Information Systems
Database Analyst**

AA Degree #1792 (67 credits)

Certificate #1312 (39 credits) **(bold and underlined)**

Technology Division

NAME: _____

Advisor: _____

One 3 credit Diversity (D) course is required; One 1 credit PE/Wellness (W) course is required. See HACC website, <http://www.hacc.edu/academics/coursesandprograms/generaleducationcourses/index.cfm>, for a current list of diversity and wellness courses.

Developmental Courses as determined through College Placement Testing:

Please note: 0-level courses do not transfer and do not count toward graduation requirements; however, they are required to enter college level courses.

____ Any ENGL ESL classes ____ ENGL 002 ____ ENGL 050 ____ * ____ MATH 020
 ____ ENGL 001 ____ ENGL 003 ____ ENGL 051 ____ MATH 010 ____ MATH 051

*** (Placement below Math 010 options: study and successfully retest- College fees apply; Take HD 107/retake math placement test (no fee for retest) and successfully place MATH 010 or higher)**

First Semester	COURSE	DESCRIPTION	PRE or CO-REQUISITE	CREDITS
____	<u>CIS 110</u>	Introduction to Computer Systems	Co: CIS 105	
			Pre: ENGL 003 & 051	3
____	<u>CIS 140</u>	Intermediate Database Management	Pre: CIS 105 or 107	3
____	SPCH 101 or	Effective Speaking or	Pre: ENGL 051 & ENGL 003 with C or higher	3
____	SPCH 104	Interpersonal Communication	Pre: ENGL 051 & ENGL 003 with C or higher	3
____	ENGL 101	English Composition I	Pre: ENGL 051 with C or higher	3
____	MATH 202 or	Statistics or	Pre/Co: ENGL 003	3
____	ACCT 101	Principles of Accounting	Pre: MATH 051	<u>3 - 4</u>
		Total Credits		15-16
Second Semester				
____	<u>CNT 120</u>	Network Comp. Technology I	Pre: CIS 105, eligible for MATH 051 & ENGL 101	3
	(formerly CIS 115)			
____	<u>CIS 127</u>	MS Windows Operating Systems ¹		3
____	<u>CIS 241</u>	Database Administration I (MS SQL used- no coding)	Pre: CIS 140	3
____	ENGL 102 or	Composition II or	Pre: ENGL 101 & ENGL 003 with C or higher	3
____	ENGL 104 or	Report and Technical Writing or	Pre: ENGL 051 & ENGL 003 with C or higher	3
____	ENGL 106	Written Business Communication	Pre: ENGL 051 & ENGL 003 with C or higher	3
____	_____	Core A Elective (Diversity elective suggested as either Core A or Core B)		3
____	_____	Physical Education(W) ²		<u>1</u>
		Total Credits		16
Summer I				
____	_____	<u>Database Elective</u> (CIS 222, 249, 264, or WEB 126)		3
____	_____	<u>Programming Elective</u> ³		<u>3</u>
		Total Credits		6
Third Semester				
____	<u>CIS 243</u>	Database Administration II ⁷	Pre: CIS 241	3
____	<u>CIS 245</u>	Database Programming (MS SQL used with coding)	Pre: DB programming helpful	3
____	_____	<u>Computer Elective</u> ⁴ (Internship recommended)		3
____	_____	Core B Elective (Diversity elective suggested as either Core A or Core B)		3
____	_____	Core C Elective		<u>3</u>
		Total Credits		15
Fourth Semester				
____	<u>CIS 247</u>	Database Backup and Recovery ⁷	Pre: CIS 243	3
____	<u>CIS 278</u>	Advanced Database Project ⁷	Pre: CIS 241, 243 & 245; Co: CIS247	3
____	<u>CIS 224</u>	Intro to Systems Analysis and Design ⁵		4
____	_____	Management Elective	Select from MGMT 121, 201, or 204	3
____	_____	Free Elective ⁶ (CIS 105 may be used)		<u>3</u>
		Total Credits		16
		Total Program Credits		68-69

Students are encouraged to see their advisor to develop and review their individual educational plans.
 For more information – visit our web site at <http://www.hacc.edu/Academics/CoursesAndPrograms/index.cfm>
 05/11 gmbm

Advising Comments

¹Pre-requisite for CIS 127 is CIS 110 and 1 more course from CIS, CISE, CNT, CPS, or WEB, except CIS 100

² One 1 credit PE/Wellness (W) course is required. See HACC website, <http://www.hacc.edu/academics/coursesandprograms/generaleducationcourses/index.cfm>, for a current list of diversity and wellness courses.

³Select one of the following courses: CIS 238, CPS 115, 121, 135, 141, 151, 230, WEB 125, 143, 240, 247, 253, 255, 256

⁴Choose any CIS, CISE, CNT, CPS, GIS or WEB course not listed as a program requirement, excluding CIS 100 and 105.

⁵Prerequisites for CIS 224: CIS 115, CNT 120 **or** CTEC 102 (with a grade of "C" or higher) **and** one of the following: CIS 238, 245, CPS 115, 121, 135, 141, 151, 230, WEB 140, 144, 220, 240, 242, 244, 246 (with a grade of "C" or higher) .

⁶Students may choose any 100-200 level courses so long as they do not exceed the credit limits on courses in physical education, military science, or cooperative work experience.

⁷CIS243, CIS247 and CIS278 uses Oracle as the DBMS and write scripts against Oracle.

- **Students must earn a "C" or above in all computer related courses, required or elective.**

Students may earn credits for certain industry certifications after submitting proper proof of certification to Records office:

- **A+ Certification will be granted 10 transfer credits for the following courses: CIS 127, ELEC 125, and ELEC 126 (After paperwork has been approved.)**
- **MCSA=CIS 127 & 3 computer elective credits-Total 6 credits.**
- **MCSE = CIS 127, CIS 110, and 6 computer elective credits- Total 12 credits**
- **MCDBA(Microsoft certified Database Administrator) certification: CIS 140, CIS 241, and Database Elective- 9 credits.**

Contacts:

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