

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

Computer Database Specialist  
Associate in Business Degree

Curriculum Code: 0922 (Effective Fall 2006 – Summer 2011)

As the Information Age matures, decisions at all levels of an organization are based upon relevant information. Organizations seek specialists who can plan for and accomplish the acquisition and retrieval of needed information. These specialists must be able to determine information requirements of users; use technology systems and processes to devise means through which to gather and sort needed information; and implement effective solutions for reporting necessary information using industry-standard database tools. Data for these systems can come from a networked and/or stand-alone environment. **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

### PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

### INFORMATION

Contact the Media, Art, and Information Technologies Department, Gannon Vocational-Technical Center, Room 131, telephone number (517) 483-1546 or Counseling and Advising Centers, Gannon Vocational-Technical Center, Room 204, telephone number (517) 483-1904.

### REQUIREMENTS

CODE	TITLE	TOTAL: 44 CREDITS CREDIT HOURS
BUSN118	Introduction to Business	3
CITA133	Microsoft Access Database	3
CITA233	Advanced Microsoft Access	2
CITD120	SQL Concepts	2
CITD130	Introduction to Oracle: SQL	3
CITD131	Oracle PL/SQL Program Units	3
CITD250	Database Concepts	3
CITF107	IC3 Certification	3
CITF108	Microsoft Windows	2
CITF110	Intro Computer Info Systems	3
CITF200	Information Systems and Problem Solving	3
CITF260	Systems Analysis and Design	4
CITN120	Introduction to Networking	3
CITP110	Introduction to Computer Programming	4
CITS285	IT Professional Internship (See Note1)	3

**LIMITED CHOICE REQUIREMENTS****TOTAL: 23–27 CREDITS**Complete the indicated number of credits from **EACH CHOICE** listed below.**CHOICE 1: General Education Core Areas****10–13 Credits**(See *General Education Core Requirements* for information on how to fulfill these requirements.)

Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area (See Note 2)	0
Global Perspectives and Diversity Core Area	3–4
Mathematics Core Area	3–4
Science Core Area	4–5
Writing Core Area (See Note 3)	0

**CHOICE 2: Speech** (See Note 2)**3 Credits**

SPCH110	Oral Communication in the Workplace	3
SPCH120	Dynamics of Communication	3

**CHOICE 3: Writing** (See Note 3)**3 Credits**

WRIT124	Technical Writing	3
WRIT127	Business Writing	3

**Choice 4: Programming Track** (Choose one subchoice)**7–8 Credits****Subchoice 4A: Visual Basic.NET Programming Track**

CITP150	Introduction to VB.NET Programming	4
CITP250	Advanced VB.NET Programming	4

**Subchoice 4B: Java Programming Track**

CITP190	Introduction to Programming in JAVA	3
CITP290	Advanced JAVA Programming for Business	4

**MINIMUM TOTAL****67****NOTES:**

1. An Independent Study course may be substituted. Please see Internship coordinator for approval.
2. Students must complete one course from CHOICE 2 to fulfill the requirements for this Core area.
3. Students must complete one course from CHOICE 3 to fulfill the requirements for this Core area.
4. A student must have earned a minimum 2.0 grade in all CIT\_ courses to graduate from this program.

## SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

I	II	III	IV
CITD120	CITA133	CITD131	CITA233
CITF107	CITD130	CITF200	CITD250
CITF108	Lim.Ch.3	Lim.Ch.1	CITN120
CITF110	Lim.Ch.4	Lim.Ch.1	Lim.Ch.1
CITP110			Lim.Ch.4
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V			
BUSN118			
CITF260			
CITS285			
Lim.Ch.2			