

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Computer Programmer/Analyst
Associate in Business Degree

Curriculum Code: 0113 (Effective Fall 2011 – Summer 2016)

Programmer/analysts plan, develop, test, and document computer programs at the request of a specific user, applying knowledge of programming techniques and computer systems. They may evaluate user requests to determine feasibility, cost, and time required, as well as compatibility with current system and computer capabilities. In addition, they read manuals, periodicals, and technical reports to develop programs that meet user requirements. They formulate a plan outlining steps required to develop programs and convert project specifications into program source instructions which are entered into the computer system and tested. They may write documentation and the user manual. **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor 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 Computer Information Technologies Program, Gannon Building, Room 131, telephone number (517) 483-9612 (Website: www.lcc.edu/cit/programming/) or Academic Advising Department, Gannon Building, Room 212, telephone number (517) 483-1904.

REQUIREMENTS

TOTAL: 39 CREDITS

CODE	TITLE	CREDIT HOURS
BUSN 118	Introduction to Business	3
CITD 120	SQL Concepts	2
CITF 110	Intro Computer Info Systems	3
CITF 240	IT Project Management	3
CITF 260	Systems Analysis and Design	4
CITP 110	Intro to Computer Programming	4
CITP 150	Intro to VB.Net Programming	4
CITP 180	Intro to C#.Net Programming	4
CITP 190	Intro to Programming in JAVA	3
CITW 150	Internet Literacy	3

CITW 160	Web Site Design & Development	3
CITW 165	Advanced Web Development	3

LIMITED CHOICE REQUIREMENTS

TOTAL: 22–28 CREDITS

Complete the indicated number of credits from **EACH CHOICE** listed below.

CHOICE 1: General Education Core Areas

15–21 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	3–4
Global Perspectives and Diversity Core Area	3–4
Mathematics Core Area	3–4
Science Core Area	3–5
Writing Core Area	3–4

CHOICE 2: Advanced Programming Track

4 Credits

CITP 250	Advanced VB.Net Programming	4
CITP 280	Advanced C#.NET Programming	4
CITP 290	Adv JAVA Programming for Busn	4
CITW 180	ASP.Net Web Development	4

CHOICE 3: Computer Related Choices (See Note 1)

3 Credits

CITD 140	Advanced SQL	3
CITD 250	Database Concepts	3
CITF 120	Operating Systems Concepts	3
CITF 140	Information Technology Ethics	3
CITF 200	Info Sys Tech/Problem Solving	3
CITN 120	Introduction to Networking	3
CITP 229	Special Topics in Programming	.25–6
CITP 295	Programming Internship	3

MINIMUM TOTAL

61

NOTES:

1. Additional courses from “CHOICE 2” may be used for “CHOICE 3”.
2. For graduation from this program, a student must have earned a minimum 2.0 grade in each course with a CIT_ prefix.

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 for help with adjustments.

I	II	III	IV
CITF 110	CITD 120	CITP 180	BUSN 118
CITP 110	CITF 240	CITP 190	CITF260
CITW 150	CITP 150	CITW 165	Lim.Ch.1
Lim.Ch.1	CITW 160	Lim.Ch.1	Lim.Ch.2
Lim.Ch.1	Lim.Ch.1		Lim.Ch.3