

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Computer Networking and Information Security
Associate in Business Degree

Curriculum Code: 1453 (Effective Fall 2014 – Summer 2019)

Networking technology binds computers and connects people with information. Students learn to design and create efficient information technology networks of data, voice, image, and video communications. Students learn to provide the technical management and support to keep systems running 24/7, and to safeguard the data they control. This degree focuses on technical competencies as well as communication with users, management, and project planning skills. Students will be prepared for industry certification exams. The courses in this curriculum have been validated by the Information Assurance Courseware Evaluation (IACE) Review Committee to meet all the elements of the Committee on National Security Systems (CNSS) National Training Standard NSTISSI 4011: Information Systems Security Professionals, as evaluated by subject experts from the National Security Agency (NSA). **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](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information.

INFORMATION

Contact the Computer Information Technologies Program, West Campus Building, Room M103, telephone number (517) 267-6406 (Website: www.lcc.edu/cit/networking/) or Academic Advising Department, Gannon Building, Room 200, telephone number (517) 483-1904.

REQUIREMENTS (See Note 1)

CODE	TITLE	TOTAL: 43 CREDITS CREDIT HOURS
BUSN118	Introduction to Business	3
CITF 110	Intro Computer Info Systems	3
CITF 120	Operating Systems Concepts	3
CITF 140	Information Technology Ethics	3
CITF 240	IT Project Management	3
CITN 120	Networking Concepts	3
CITN 220	Introduction to Networks	3
CITN 225	Routing & Switching Essentials	3
CITN 230	Linux/UNIX Operating System	3
CITN 250	Microsoft Network Server	3
CITN 280	IT Security Foundations	3
CITP 110	Intro to Computer Programming	4
CITS 125	Computer Support: A+ Cert Prep	6

LIMITED CHOICE REQUIREMENTS

TOTAL: 22-27 CREDITS

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

CHOICE 1: [General Education Core Areas](#) **13–17 Credits**
 (Click the link above 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)	3–4
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 1A: Writing **3–4 Credits**
 WRIT 121 Composition I 4
 WRIT 127 Business Writing 3

CHOICE 2: Additional Computer Courses (See Note 4) **6 Credits**
 CITN 222 Wireless Networking & Security 3
 CITN 228 VoIP Fundamentals 3
 CITN 240 Scaling Networks 3
 CITN 244 Securing Networking Devices 3
 CITN 245 Connecting Networks 3
 CITN 295 CCNA Review 3
 CITS 285 IT Professional Internship 3

MINIMUM TOTAL **65**

NOTES:

1. Some CIT_ courses are delivered in an accelerated 8 week format. Please see a Program Advisor for schedule options.
2. SPCH 110 is recommended for the Communication Core area.
3. Students must complete one course from CHOICE 1A to fulfill the requirements for the Writing Core area.
4. Other CITN courses may be approved for CHOICE 2 by a Computer Information Technologies Academic advisor.
5. For graduation from this program, a student must earn a minimum 2.0 grade in all courses.

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	CITF 240	BUSN 118	CITN 230
CITF 140	CITN 220	CITF 120	Lim.Ch.1
CITN 120	CITN 225		Lim.Ch.1
CITS 125	CITP 110		Lim.Ch.2
Lim.Ch.1	Lim.Ch.1A		
V			
CITN 250			
CITN 280			
Lim.Ch.1			
Lim.Ch.2			