COMPUTER NETWORKING, BS

Program Description

This degree gives students the knowledge and tools necessary to be successful in the field of computer networking. Courses cover a range of networking topics, including network operating systems, hardware, web page design, and system administration.

Students will have hands-on experience with Linux, Novell and Windows platforms, as well as networking hardware and operating system installation.

Some of the highlights of the program are:

- Students get hands-on training in networking hardware and software, and receive the necessary concepts of hardware, software and network operating systems.
- Students are prepared to take industry-standard examinations, such as those established by Cisco, Novell and Microsoft.
- Students can choose software design, research, or co-operative education as their senior capstone experience.

Program Learning Outcomes

- Analyze the needs of a user, design a computer network to satisfy those needs, and install, modify and maintain the network environment relative to both hardware and software. *(Analyze Needs)*
- Design, install, and implement appropriate security, intrusion detection, and troubleshooting techniques and methodologies in a communication network. *(Design)*
- Evaluate changes in technology, security, and user needs based on accepted and updated best practices in the field. *(Security and Best Practices)*
- Communicate technical information relative to problems and solutions to both other professionals in the field as well as involved non-technical persons. *(Communications)*

Degree Requirements

Code	Title	Hours
Departmental Requirements		
Departmental GPA must be 2.50 or higher		
CSCI 103	Survey of Computer Science	3
CSCI 105	Intro to Computer Programming	3
CSCI 106	Web Page Design & Development	3
CSCI 121	Principles of Programming	4
CSCI 163	Troubleshooting/Repair of PC's	3
CSCI 211	Database Applications	4
CSCI 221	Computer Networks	3
CSCI 248	Network Operating Systems I	3
CSCI 263	Managing Computer Security	3
CSCI 281	Intro to UNIX and Networking	3
CSCI 292	Computer Networking Project	4
CSCI 323	Routers and Switches	3
CSCI 327	Web App Design & Development	3
CSCI 348	Network Operating Systems II	3
CSCI 351	App Interface Development	3
or CSCI 371	Multi-Platform App Development	
CSCI 412	Unix Network Administration	3
CSCI 418	Senior Project I	3
CSCI 419	Senior Project II	3
CSCI 422	Network and Computer Security	3
Support Courses		
BUSN 121	Introduction to Business	3
BUSN 231	Business Communications	3
ENGL 306	Technical Writing	3
MATH 111	College Algebra	3
MATH 207	Prin of Statistical Methods	3
Free Electives		17-20
Total Hours		**92-95**

General Education: All LSSU bachelor's degree candidates must complete the LSSU General Education Requirements.

A minimum of 124 credits (at the 100 level or higher) must be earned for graduation with a cumulative gpa of 2.00 or higher. A gpa of 2.50 or higher is required in your Major, and a gpa of 2.00 or higher is required in your General Education Requirements.