

Associate in Applied Science in Information Technology Networking

Program Outcomes

Upon completion of this degree, students will gain the knowledge, skills, and abilities in networking that provide career opportunities or career advancement. This degree also provides the foundation for business and industry certifications.

Employment Opportunities or Additional Educational Options

With this degree, students can seek employment in networking and hardware support or prepare for transfer to Ferris State University to complete a four-year degree in Computer Information Technology. If you wish to transfer to another college or university besides Ferris, please consult with your advisor frequently to determine specific course requirements.

To Learn More About This Program

Contact Eric Clayborn at 269-783-2153 or eclayborn@swmich.edu.

Degree Requirements

To earn this degree, students must have an overall GPA of 2.0 or higher, complete a minimum of 60 credit hours, and fulfill the course requirements of the program listed below. Students are permitted to complete a higher-level math course than shown below. Each general education course, prerequisite course, internship, and capstone course must be completed with a final grade of "C" or better.

General Education Courses

COMMUNICATIONS

Course ID	Course	Credits
ENGL 103 or ENGL 103W	Freshman English 2 (or with workshop)	3 to 4 credits
SPEE 102	Fundamentals of Public Speaking	3 credits

MATHEMATICS

Course ID	Course	Credits
MATH 150	Statistics	4 credits

Major-specific Required Courses

Course ID	Course	Credits
EDUC 120	Educational Exploration and Planning	1 credit
ISYS 201	IT Support	3 credits
ISYS 207	Managing and Maintaining PCs	4 credits
ISYS 271	Networking Essentials	3 credits
ISYS 272	Configuring Windows Devices	3 credits
ISYS 281	Installing Windows Server	3 credits
ISYS 282	Linux	3 credits
ISYS 283	Administering Windows Server	3 credits
ISYS 284	Advanced Windows Server	3 credits
ISYS 285	Network Security	3 credits

Complete either the Employment Ready Track or the Transfer Track to Ferris State University to continue studies in Computer Information Technology

EMPLOYMENT READY TRACK

Course ID	Course	Credits
BUSI 200	Small Business Management	3 credits
BUSI 240	Professionalism Workshop	1 credit
ISYS 110	Introduction to Computer Technology	3 credits
ISYS 255	Internship	3 credits
ISYS 260	Wireless Communications	3 credits
ISYS 288	CISCO Routers and Switches	3 credits
ISYS 289	Installing and Configuring Windows	3 credits
ISYS 200 or ISYS 215	Integrated Applications and Technologies or Selected Topics in Information Technology	3 credits

TRANSFER TRACK TO FERRIS STATE UNIVERSITY (satisfies MTA and Ferris requirements)

Course ID	Course	Credits
BISC 111	Biological Science	4 credits
ECON 202	Microeconomics	3 credits
GEOG 110	Physical Geography	4 credits
ISYS 115	Programming Logic and Design	3 credits
PHIL 210	Introduction to Ethics	4 credits
SOCI 201	Principles of Sociology	3 credits
SOCI 240	Minority Groups in America	3 credits

Total Program Credits: 61 to 63

Additional Notes About the A.A.S. in Information Technology Networking Program Employment Ready Track

- A prerequisite course may be needed prior to enrollment in some courses within this program. Specific prerequisite requirements are listed in the Course Description section in the Course Catalog. A summary of the prerequisites are listed below in the Example Course Sequence.
- This program as outlined does not meet MTA requirements. Students who want to meet MTA requirements need to take two different natural science courses, two different social science courses, and two different humanities courses. Students should consult with an advisor to ensure proper course selection of these MTA-related courses.
- Courses taken out of sequence may delay a student's ability to complete the program in a timely manner. Please consult your advisor regularly.
- Each student should submit a graduation application at least one full semester before he/she plans to graduate.
- This program is subject to change. Students should consult with their advisor for program updates.

Example Course Sequence

The following is a sample of a semester-by-semester approach to completing this program.

FIRST SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
EDUC 120 Educational Exploration and Planning	1 credit	ENGL 115 or test score (concurrent enrollment allowed)
ENGL 103 or ENGL 103W Freshman English 2 (or with workshop)	3 to 4 credits	ENGL 115 or test score (concurrent enrollment allowed)
ISYS 110 Intro to Computer Technology	3 credits	None
ISYS 207 Managing and Maintaining PCs	4 credits	None
ISYS 271 Networking Essentials	3 credits	ISYS 207 (concurrent enrollment allowed)
ISYS 201 IT Support	3 credits	None

SECOND SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
BUSI 200 Small Business Management	3 credits	ENGL 115 or test score (concurrent enrollment allowed)
ISYS 260 Wireless Communications	3 credits	ISYS 207
SPEE 102 Fundamentals of Public Speaking	3 credits	None
ISYS 281 Installing Windows Server	3 credits	ISYS 207 and ISYS 271

THIRD SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
ISYS 272 Configuring Windows Devices	3 credits	ISYS 281
ISYS 283 Administering Windows Server	3 credits	ISYS 281
ISYS 288 CISCO Routers and Switches	3 credits	ISYS 271
ISYS 284 Advanced Windows Server	3 credits	ISYS 281
ISYS 285 Network Security	3 credits	ISYS 207 (concurrent enrollment allowed)

FOURTH SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
BUSI 240 Professionalism Workshop	1 credit	None
ISYS 200 Integrated Apps and Tech or ISYS 215 Selected Topics in Information Technology	3 credits	ISYS 200: ISYS 110 ISYS 215: None
MATH 150 Statistics	4 credits	MATH 101, MATH 102, or test score
ISYS 255 Internship	3 credits	BUSI 240 (concurrent enrollment allowed)
ISYS 289 Installing and Configuring Windows	3 credits	ISYS 281
ISYS 282 Linux	3 credits	None

Additional Notes About the A.A.S. in Information Technology Networking Transfer Track to Ferris State University

- A prerequisite course may be needed prior to enrollment in some courses within this program. Specific prerequisite requirements are listed in the Course Description section in the Course Catalog. A summary of the prerequisites are listed below in the Example Course Sequence.
- This program as outlined meets MTA requirements.
- Courses taken out of sequence may delay a student's ability to complete the program in a timely manner. Please consult your advisor regularly.
- Each student should submit a graduation application at least one full semester before he/she plans to graduate.
- This program is subject to change. Students should consult with their advisor for program updates.

Example Course Sequence

The following is a sample of a semester-by-semester approach to completing this program.

FIRST SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
EDUC 120 Educational Exploration and Planning	1 credit	ENGL 115 or test score (concurrent enrollment allowed)
ENGL 103 or ENGL 103W Freshman English 2 (or with workshop)	3 to 4 credits	ENGL 115 or test score (concurrent enrollment allowed)
SOCI 201 Principles of Sociology	3 credits	ENGL 115 or test score (concurrent enrollment allowed)
ISYS 207 Managing and Maintaining PCs	4 credits	None
ISYS 271 Networking Essentials	3 credits	ISYS 207 (concurrent enrollment allowed)
ISYS 201 IT Support	3 credits	None

SECOND SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
MATH 150 Statistics	4 credits	MATH 101, MATH 102, or test score
GEOG 110 Physical Geography	4 credits	None
PHIL 210 Introduction to Ethics	4 credits	ENGL 103 or ENGL 103W
ISYS 281 Installing Windows Server	3 credits	ISYS 207 and ISYS 271

THIRD SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
ISYS 272 Configuring Windows Devices	3 credits	ISYS 281
ISYS 283 Administering Windows Server	3 credits	ISYS 281
ISYS 115 Programming Logic and Design	3 credits	None
ISYS 284 Advanced Windows Server	3 credits	ISYS 281
ISYS 285 Network Security	3 credits	ISYS 207 (concurrent enrollment allowed)

FOURTH SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
BISC 111 Biological Science	4 credits	None
ECON 202 Microeconomics	3 credits	MATH 101, MATH 102, or test score
SPEE 102 Fundamentals of Public Speaking	3 credits	None
SOCI 240 Minority Groups in America	3 credits	ENGL 103 or ENGL 103W
ISYS 282 Linux	3 credits	None