Associate in Applied Science in Information Technology Networking

Program Overview

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.

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.

Course Offerings

Students pursuing an Associate in Applied Science in Information Technology Networking may complete select courses for this program online. Courses within this program may also be offered on-site at our Dowagiac or Niles campus.

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 214	Business Communications	3 credits
BUSI 240	Professionalism Workshop	1 credit
ISYS 110	Introduction to Computer Technology	3 credits
ISYS 229	Scripting Languages	3 credits
ISYS 255	Internships	3 credits
ISYS 288	CISCO Routers and Switches	3 credits
ISYS 290 or ISYS 215	Systems Analysis or Selected Topics in Information Technology	3 credits
ISYS 295	Cybersecurity Analysis	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
HUMA 210	Introduction to Non-Western Civilization	4 credits
ISYS 115	Programming Logic and Design	3 credits
PHIL 210	Introduction to Ethics	4 credits
SOCI 201	Principles of Sociology	3 credits

Total Program Credits: 61-64

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 is listed below in the Example Course Sequence.
- This program as outlined does NOT meet MTA requirements. Students need to take two different natural science courses, two different social science courses, and two different humanities courses. If interested in the MTA, students should seek help from an advisor for course selection.
- 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 they plan 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, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed
ENGL 103 or ENGL 103W Freshman English 2 (or with workshop)	3 to 4 credits	ENGL 103W: English test score (Level 2 or higher) ENGL 103: ENGL 115 or English test score (Level 3); concurrent enrollment in ENGL 115 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 214 Business Communications	3 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed
ISYS 229 Scripting Languages	3 credits	None
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 271 (concurrent enrollment allowed)

FOURTH SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
BUSI 240 Professionalism Workshop	1 credit	None
ISYS 290 Systems Analysis or ISYS 215 Selected Topics in Information Technology	3 credits	ISYS 290: ISYS 110 and ISYS 207 ISYS 215: None
MATH 150 Statistics	4 credits	Math test score (Level 3 or higher) or concurrent enrollment in MATH 150C
ISYS 255 Internship	3 credits	ISYS 281; Permission of the Department Chair
ISYS 295 Cybersecurity Analysis	3 credits	ISYS 285
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 is 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 they plan 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, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed
ENGL 103 or ENGL 103W Freshman English 2 (or with workshop)	3 to 4 credits	ENGL 103W: English test score (Level 2 or higher) ENGL 103: ENGL 115 or English test score (Level 3); concurrent enrollment in ENGL 115 allowed
SOCI 201 Principles of Sociology	3 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 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 test score (Level 3 or higher) or concurrent enrollment in MATH 150C
GEOG 110 Physical Geography	4 credits	None
PHIL 210 Introduction to Ethics	4 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed
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 271 (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	None (concurrent enrollment in ECON 201 not recommended)
SPEE 102 Fundamentals of Public Speaking	3 credits	None
HUMA 210 Introduction to Non-Western Civilization	4 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed
ISYS 282 Linux	3 credits	None