



Information Technology Program Description(s)

Industry Description

The graduate will be a specialist in one of the areas of concentration in Information Technology (IT), but will also have a broad base of foundational knowledge from the common core courses that span the four areas of concentration. Professional standards, proper methodology such as sound engineering principles and project management, will be emphasized throughout the courses.

Wages/Outlook

Wage information is available from the Minnesota Department of Education and the [Minnesota Department of Employment and Economic Development](#)

Program Description

The Information Technology AAS degree is designed to prepare graduates to successfully compete for high-paying, rewarding careers in IT fields with the highest demand, both today and in the future. The program requirements were determined through consultation with employers, those working in the industry, technical training professionals, and those currently seeking training and retraining for IT careers.

The IT degree has an initial curriculum of over 90 courses in four career areas of concentration:

- **Information System Analyst**
- **Network Analyst**
- **Multimedia & Game Programming**
- **Software Development**
- **Web Design & Development**

Graduates will be encouraged to take advantage of access to corporate recruitment and IT recruiting firms. Internships and work-study positions will also be available. The IT graduate will be highly employable - in many cases, even before graduation.

This program is different in several ways. While allowing technical specialization in one option, the common core courses and required electives taken from other options build the broad IT foundation needed to understand the terminology and methodologies of other IT specialties in the workplace.

IMPORTANT ACCUPLACER Test Requirement: ACCUPLACER testing in math, reading and writing. Any needed developmental courses must be completed before receiving a diploma or an A.A.S. award.

Length of Program

AAS Degree 72 credits

Start Dates

Fall Semester: August, October

Spring Semester January, March

There are also multiple options to start each semester!

Program Contact

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For information on how to apply or to schedule a campus tour please contact the [Admissions Office](#)

Phone (763) 576-4850

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**Information Technology Management
Associate of Applied Science**

72 Credits

General Education

18 Credits

Eighteen general education credits of MN Transfer Curriculum are required. One course must be a transferable Math course goal area four. The balance of general education must be taken from two or more goal areas. Refer to the ATC website for a list of the Minnesota Transfer Curriculum courses and their goal areas http://www.anokatech.edu/current_students/transfer/

ATC transferable Math Courses

MATH1500 Mathematical Ideas 3 credits, Approved MnTC Goal Area (4)

MATH1600 College Algebra 4 credits, Approved MnTC Goal Area (4)

*MATH may have a prerequisite depending on your Accuplacer assessment score.

IT Core Curriculum Requirements

22 Credits

ITEC1000	Networking Technologies	4
ITEC1005	Desktop & Database Technologies	4
ITEC1010	Programming Technologies	4
ITEC1015	Web Programming Technologies	4
ITEC1020	Project Management	2
ITEC2900	Integrated Capstone Project	4

Upon completion of the IT Core Curriculum students will choose one of the following areas of specialty.

Information Technology Management ***Emphasis in Information System Analyst***

The ISA degree is a program that provides students the knowledge needed to design and implement information technology solutions that meet business requirements. Students are prepared to enter the job market as Help Desk Analysts, Business Analysts, or Systems Analysts. This program is offered completely online and in the traditional classroom format.

General Education **18 Credits**

IT Core Curriculum Requirements **22 Credits**

Information Systems Analyst **32 Credits**

ITEC2100	Programming Logic & Design	4
ITEC2105	JAVA Programming	4
ITEC2110	Visual Basic .NET	4
ITEC2115	IT Support & Security	4
ITEC2120	DB Design & SQL	4
ITEC2125	Business Systems Analysis	4
ITEC2135	Web Data Management	4
ITEC2220	DB Administration & Security	4

Information Technology Management ***Emphasis in Network Analyst***

This program track prepares the Network Analyst for entry-level positions in Computer Support and Network Administration requiring network hardware analysis, design, implementation, and troubleshooting skills.

General Education **18 Credits**

IT Core Curriculum Requirements **22 Credits**

Networking Analyst **32 Credits**

ITEC2115	It Support & Security	4
ITEC2125	Business Systems Analysis	4
ITEC2200	A+ Core Technologies	6
ITEC2205	Windows Network Administration & Design	8
ITEC2210	Wireless Communications & Security	2
ITEC2215	Linux / Web Server Administration	4
ITEC2220	DB Administration & Security	4

Information Technology Management *Emphasis in Multimedia & Game Programming*

General Education 18 Credits

IT Core Curriculum Requirements 18 Credits

Multimedia & Game Programming 36 Credits

ITEC2100	Programming Logic & Design	4
ITEC2105	JAVA Programming	4
ITEC2300	Multimedia Design & Development	4
ITEC2305	Multimedia Instructional Design	4
ITEC2310	Graphic Design Technologies	4
ITEC2315	Flash Design & Development	4
ITEC2320	Animation & 3D Design	4
ITEC2325	Gaming Technologies	4
ITEC2330	Advanced Gaming Technologies	4

Information Technology Management *Emphasis in Software Development*

General Education 18 Credits

IT Core Curriculum Requirements 18 Credits

Software Development 36 Credits

ITEC2100	Programming Logic & Design	4
ITEC2105	JAVA Programming	4
ITEC2110	Visual Basic .NET	4
ITEC2120	DB Design & SQL	4
ITEC2125	Business Systems Analysis	4
ITEC2135	Web Data Management	4
ITEC2315	Flash Design & Development	4
ITEC2325	Gaming Technologies	4
ITEC2330	Advanced Gaming Technologies	4
	OR	
ITEC2900	Integrated Capstone Project	4

Information Technology Management ***Emphasis in Web Design & Development***

This program focuses on both designing and developing dynamic web sites. Emphasis is placed on the design, development, deployment and maintenance of database-oriented, interactive web sites suitable for supporting e-commerce using the latest web development technologies.

General Education **18 Credits**

IT Core Curriculum Requirements **22 Credits**

Web Design & Development **32 Credits**

ITEC2100	Programming Logic & Design	4
ITEC2105	JAVA Programming	4
ITEC2125	Business Systems Analysis	4
ITEC2135	Web Data Management	4
ITEC2215	Linux/Web Server Administration	4
ITEC2300	Multimedia Design & Development	4
ITEC2310	Graphic Design Technologies	4
ITEC2315	Flash Design & Development	4