

ASSOCIATE OF APPLIED SCIENCE IN INFORMATION TECHNOLOGY

The Associate of Applied Science in Information Technology program at Youngstown State University prepares students to become lifelong learners equipped with foundational theoretical knowledge and technical skills in computing technologies. The program emphasizes the planning, development, implementation, and maintenance of solutions in networking, data engineering, cybersecurity, software development, web technologies, and computing hardware and software systems, meeting the evolving needs of users and organizations.

The program prepares students to possess the right combination of knowledge and practical, hands-on expertise to take care of both an organization's information technology infrastructure and the people who use it. The program prepares students to assume responsibility for understanding how computing systems are composed and structured, their strengths and weaknesses, reliability, security, usability, effectiveness, and efficiency for their intended purpose, selecting hardware and software products appropriate for an organization, integrating those products with organizational needs and infrastructure, and installing, customizing, and maintaining those applications, thereby providing a secure and effective environment that supports the activities of the organization's computer users.

The Information Technology AAS degree program graduates may continue their studies towards a bachelor's degree in a computer or information technology area or obtain full-time employment as network technicians, database specialists, software developers, cybersecurity specialists, help desk support, web/digital designers, or in other closely related fields. Graduates are prepared to address challenges in information technology with ethical decision-making, a global perspective, and the technical expertise required to make meaningful contributions in their personal, organizational, and societal roles.

Associate Degree Program

Graduates of the associate degree program can pursue careers in service and support of information systems, as well as continuing on to a bachelor's degree in information technology. This degree may be earned in four semesters if students average 15-16 hours per semester.

Students wishing to receive the Associate of Applied Science in Information Technology must complete the following:

COURSE	TITLE	S.H.
FIRST YEAR REQUIREMENT - STUDENT SUCCESS		
YSU 1500	Success Seminar	1-2
or YSU 1500S	Youngstown State University Success Seminar	
or HONR 1500	Intro to Honors	
General Education Requirements		
ENGL 1550	Writing 1	3-4
or ENGL 1549	Writing 1 with Support	
ENGL 1551	Writing 2	3
MATH 1510	College Algebra	4-6
or MATH 1510C	College Algebra with Co-requisite Support	
Select 2 courses from 2 of the domains: AH, SS, and NS (one must include a lab)		
Major Requirements		
CSIS 1525	Survey of Modern Operating Systems	3
CSIS 1570	Web Systems and Technologies	3
CSIS 1590	Foundations of Information Systems & Technologies	3

CSIS 1595 & 1595L	Fundamentals of Programming and Problem-Solving 1 and Fundamentals of Programming and Problem-Solving 1 Lab	3
CSIS 2605 & 2605L	Fundamentals of Programming and Problem-Solving 2 and Fundamentals of Programming and Problem-Solving 2 Lab	3
CSIS 2620	System Configuration and Maintenance	3
INFO 3704	Business Communication	3
or ENGL 3743	Introduction to Public, Professional and Technical Writing	
CSIS 3722	Development of Databases	3
CSIS 3731	Human-Computer Interaction	3
CSIS 3755	Information Assurance	3
CSIS 3782	Cisco Networking Academy 1	3
Additional Course Work to total 60 s.h.		
Free Electives		10
Total Semester Hours		60-65

Year 1

Fall		S.H.
YSU 1500	Success Seminar	1-2
or YSU 1500S	or Youngstown State University Success Seminar	
or HONR 1500	or Intro to Honors	
ENGL 1550	Writing 1	3-4
or ENGL 1549	or Writing 1 with Support	
CSIS 1525	Survey of Modern Operating Systems	3
CSIS 1590	Foundations of Information Systems & Technologies	3
Free Elective	i.e., prereq Math course for MATH 1552	4
Semester Hours		14-16

Spring

ENGL 1551	Writing 2	3
MATH 1510	College Algebra	4-6
or MATH 1510C	or College Algebra with Co-requisite Support	
CSIS 1570	Web Systems and Technologies	3
CSIS 1595	Fundamentals of Programming and Problem-Solving 1	2
CSIS 1595L	Fundamentals of Programming and Problem-Solving 1 Lab	1
CSIS 2620	System Configuration and Maintenance	3
Semester Hours		16-18

Year 2

Fall		S.H.
CSIS 3722	Development of Databases	3
CSIS 2605	Fundamentals of Programming and Problem-Solving 2	2
CSIS 2605L	Fundamentals of Programming and Problem-Solving 2 Lab	1
CSIS 3755	Information Assurance	3
General Education Course	Natural Science, Arts and Humanities, or Social Science	3-4
Free Elective		3
Semester Hours		15-16

Spring

INFO 3704	Business Communication	3
or ENGL 3743	or Introduction to Public, Professional and Technical Writing	

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CSIS 3731	Human-Computer Interaction	3
CSIS 3782	Cisco Networking Academy 1	3
General Education Course	Natural Science, Arts and Humanities, or Social Science	3
Free Elective		3
Semester Hours		15
Total Semester Hours		60-65

Learning Outcomes

1. The Associate program in Information Technology provides preparation for student's basic knowledge of technologies in the implementation and troubleshooting of networks.
2. The Associate program in Information Technology provides preparation for student's basic knowledge of technologies in designing databases and extracting information using appropriate programs or applications.
3. The Associate program in Information Technology provides preparation for student's basic knowledge of technologies in assessing information management processes and procedures and the application of technologies.
4. The Associate program in Information Technology provides preparation for student's basic knowledge of technologies in developing interactive programs.