ASSOCIATE OF APPLIED SCIENCE IN INFORMATION TECHNOLOGY

Information technology provides systematic foundations that include methodologies and models for conceptualizing the complex dynamics of the Information Technology environment as it applies to information systems design and implementation.

IT professionals 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. They assume responsibility for selecting hardware and software products appropriate for an organization. They integrate those products with organizational needs and infrastructure and install, customize and maintain those applications, thereby providing a secure and effective environment that supports the activities of the organization's computer users. In IT, programming often involves writing short programs that typically connect existing components (scripting).

Planning and managing an organization's IT infrastructure is a difficult and complex job that requires a solid foundation in applied computing as well as management and people skills. Those in the IT discipline require special skills — in understanding, for example, how networked systems are composed and structured, and what their strengths and weaknesses are. There are important software systems concerns such as reliability, security, usability, and effectiveness and efficiency for their intended purpose; all of these concerns are vital. These topics are difficult and intellectually demanding.

The program supports work processes and employee performance enhancements; is designed to improve overall workgroup and individual productivity; and addresses the creation, distribution, storage, and use of information in all its states. Business processes are incorporated as an integral part of all course content. Information Technology encompasses:

- · Client/Server Side Computing
- · Project Management
- Multimedia
- Networks
- · Database Systems
- · System Analysis
- · Information Security
- · Network/ Cybersecurity
- · Application Development
- · E-Commerce Programming

IT graduates of the AAS degree program may continue their studies towards a bachelor's degree in a computer or information technology area or may obtain full-time employment as database specialist, help desk support, network technicians, web/digital designers, and in other closely related fields.

IT graduates of the BSAS degree program may obtain full-time employment as web & multimedia designers/developers, network administrators, computer programmers, application developers, database managers, computer systems analysts, cybersecurity specialist, and in other closely related fields.

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 FIRST YEAR REQU	TITLE IREMENT -STUDENT SUCCESS	S.H.	
YSU 1500	Success Seminar	1-2	
or YSU 1500S	Youngstown State University Success Seminar		
or HONR 1500			
General Education Requirements			
ENGL 1550	Writing 1	3-4	
or ENGL 1549	Writing 1 with Support		
ENGL 1551	Writing 2	3	
MATH 1552	Applied Business Calculus	4	
Select 2 courses from 2 of the domains: AH, SS, or NS (one must include a 6-7 lab)			
Major Requiremen	ts		
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-	3	
	Solving 1 Lab		
CSIS 2605 & 2605L	Fundamentals of Programming and Problem- Solving 2	3	
	and Fundamentals of Programming and Problem- Solving 2 Lab		
CSIS 2620	System Configuration and Maintenance	3	
INFO 3704	Business Communication	3	
or ENGL 3743	Introduction to Public, Professional and Technical Wr	iting	
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 60-63			
Year 1 Fall		S.H.	
YSU 1500	Success Seminar	1-2	
or YSU 1500S or HONR 1500	or Youngstown State University Success Seminar		
	or Intro to Honors		
eNGL 1550 or ENGL 1549	Writing 1 or Writing 1 with Support	3-4	
CSIS 1525	Survey of Modern Operating Systems	3	
CSIS 1523	Foundations of Information Systems &	3	
C313 1390	Technologies	3	
Free Elective i.e., pre	ereq Math course for MATH 1552	4	
Tree Elective		14-16	
Spring	ochiester riodis		
ENGL 1551	Writing 2	3	
MATH 1552	Applied Business Calculus	4	
CSIS 1570	Web Systems and Technologies	3	
CSIS 1576	Fundamentals of Programming and Problem- Solving 1	2	
CSIS 1595L	Fundamentals of Programming and Problem-	1	
0010 1030L	Solving 1 Lab	,	

CSIS 2620	System Configuration and Maintenance	3
	Semester Hours	16
Year 2		
Fall		
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 Science	Course Natural Science, Arts and Humanities, or Social	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	
CSIS 3731	Human-Computer Interaction	3
CSIS 3782	Cisco Networking Academy 1	3
General Education Science	Course Natural Science, Arts and Humanities, or Social	3
Free Elective		3
	Semester Hours	15
	Total Semester Hours	60-63

Learning Outcomes

- 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.
- 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.
- The Associate program in Information Technology provides preparation for student's basic knowledge of technologies in developing interactive programs.