

ASSOCIATE OF ARTS IN CYBERSECURITY

The Associate of Arts in Cybersecurity degree is designed for students interested in a career in the area of protecting computer systems and networks. It is designed to fulfill the Michigan Transfer Agreement (MTA) requirements while providing flexibility in preparing students for transfer to a four-year institution. Students will learn about the vulnerabilities of hardware and software systems, perform network security testing, including countermeasure testing and the risk factor analysis needed to design a flexible and comprehensive security plan. Students will gain skills in providing for business continuity and disaster recovery. They can sit for the following industry certifications: CompTIA Linux+ and Security+, CCENT; CCNA Cyber Ops (SECOPS); and Microsoft Technology Associate. Since transfer requirements vary widely, it is important to consult with an advisor if you plan to transfer to a college or university.

Requirements

Code	Title	Credits
Communications		6.00
Must complete ENG 121 and COM-150 OR ENG-122:		
ENG-121	ENGLISH COMPOSITION I ¹	
COM-150	PUBLIC SPEAKING ((OR)) ¹	
ENG-122	ENGLISH COMPOSITION II ¹	
Humanities		7.00
Select two courses from two different prefixes:		
ART-100	ART APPRECIATION ¹	
COM 150 may be applied to Humanities required if not being applied to fulfill Communications requirement		
ART-220	HISTORY OF ART I ¹	
ART-221	HISTORY OF ART II ¹	
COM-110	INTERPERSONAL COMMUNICATIONS	
ENG-201	WOMEN & LITERATURE ¹	
ENG-233	CHILDRENS LITERATURE ¹	
HIST-101	WEST CIV I: ANCIENT WORLD-1715 ¹	
HIST-102	WESTERN CIV II ¹	
HUM-101	MODERN CULTURE & THE ARTS ¹	
HUM-234	WORLD MYTHOLOGIES ¹	
LNG-161	SPANISH I	
LNG-162	SPANISH II ¹	
LNG-163	SPANISH III ¹	
LNG-261	SPANISH IV ¹	
MUS-150	MUSIC APPRECIATION ¹	
PHIL-210	ETHICS ¹	
PHIL-230	INTRO TO PHILOSOPHY ¹	
REL-231	COMPARATIVE RELIGION ¹	
REL-233	NEW TESTAMENT ¹	
Mathematics		4.00
Select one, Calculus recommended		
MATH-151	COLLEGE ALGEBRA ¹	
MATH-161	CALCULUS I & ANALYTIC GEOMETRY ¹	
Natural Science		7.00
Select two courses from two different prefixes – one must have a lab		

BIO-101	HUMAN BIOLOGY ¹	
BIO-110	BIOLOGICAL FORM AND FUNCTION ¹	
BIO-120	INTRODUCTION TO BIOLOGY ¹	
BIO-121	MOLECULAR AND CELLULAR BIOLOGY ¹	
BIO-122	ORGANISMAL BIOLOGY ¹	
BIO-125	ENVIRONMENT AND SOCIETY ¹	
BIO-210	HUMAN ANATOMY & PHYSIOLOGY I ¹	
BIO-211	HUMAN ANATOMY & PHYSIOLOGY II ¹	
BIO-230	MICROBIOLOGY ¹	
CHEM-130	CHEMISTRY ¹	
CHEM-133	GENERAL CHEMISTRY I ¹	
CHEM-134	GENERAL CHEMISTRY II ¹	
CHEM-210	ORGANIC CHEMISTRY I ¹	
CHEM-211	ORGANIC CHEMISTRY II ¹	
GEOG-142	PHYSICAL GEOGRAPHY ¹	
GEOL-145	PHYSICAL GEOLOGY ¹	
PHYS-144	ASTRONOMY ¹	
PHYS-251	PHYSICS I ¹	
PHYS-253	PHYSICS II ¹	
Social Science		7.00
Select two courses from two different prefixes:		
ECON-203	PRIN OF ECONOMICS-MICRO ¹	
PHIL 210 Ethics may be applied for Social Science requirement if not using for Humanities requirement		
ECON-204	PRIN OF ECONOMICS-MACRO ¹	
HIST-101	WEST CIV I: ANCIENT WORLD-1715 ¹	
HIST-102	WESTERN CIV II ¹	
HIST-201	US HISTORY I ¹	
HIST-202	US HIST II: RECONSTRUC-PRESENT ¹	
HIST-204	HISTORY OF MICHIGAN ¹	
PSI-110	AMERICAN GOV'T & POLITICAL SCI ¹	
PSI-111	STATE & LOCAL GOVERNMENT ¹	
PSY-101	PSYCHOLOGY ¹	
PSY-210	HUMAN GROWTH & DEVELOPMENT ¹	
PSY-220	ABNORMAL PSYCHOLOGY ¹	
PSY-250	HUMAN SEXUALITY ¹	
PSY-260	SOCIAL PSYCHOLOGY ¹	
SOC-120	PRIN OF SOCIOLOGY ¹	
SOC-121	MODERN SOCIAL PROBLEMS ¹	
SOC-220	MARRIAGE & FAMILY LIVING ¹	
Cybersecurity Certificate		30.00
CIS-112	CISCO I	
CIS-113	CISCO II	
CIS-151	ETHICAL HACKING I ¹	
CIS-152	ETHICAL HACKING II ¹	
CIS-161	CYBERSECURITY OPERATIONS ¹	
CIS-162	INTRODUCTION TO COMPUTER FORENSICS	
CIS-172	LINUX OPERATING SYSTEMS ¹	
CIS-245	NETWORK SECURITY ¹	
CIS-270	PC OPERATING SYSTEMS ¹	
CIS-272	LINUX OPERATING SYSTEM ADMINISTRATION ¹	
Total Credits		61.00

1

Course has prerequisite(s).

Note: No courses under the 100 level will be accepted toward this degree. A grade of 2.0 or higher is required for any courses in the general education (MTA) areas.

Tuition is calculated on contact hours.

Current/Updated: 05/14/2020

Suggested Schedule

Course	Title	Credits
Fall 1		
CIS-112	CISCO I	3.00
CIS-151	ETHICAL HACKING I	3.00
CIS-172	LINUX OPERATING SYSTEMS	3.00
ENG-121	ENGLISH COMPOSITION I	3.00
MTA Humanities course		3.00
Credits		15.00
Winter 1		
CIS-113	CISCO II	3.00
CIS-152	ETHICAL HACKING II	3.00
CIS-161	CYBERSECURITY OPERATIONS	3.00
CIS-245	NETWORK SECURITY	3.00
COM-150 or ENG-122	PUBLIC SPEAKING or ENGLISH COMPOSITION II	3.00
Credits		15.00
Fall 2		
CIS-162	INTRODUCTION TO COMPUTER FORENSICS	3.00
MATH-151 or MATH-161	COLLEGE ALGEBRA or CALCULUS I & ANALYTIC GEOMETRY	4.00
MTA Humanities course		4.00
MTA Natural Science w/ lab		4.00
MTA Social Science course		3.00
Credits		18.00
Winter 2		
CIS-270	PC OPERATING SYSTEMS	3.00
CIS-272	LINUX OPERATING SYSTEM ADMINISTRATION	3.00
MTA Natural Science course		3.00
MTA Social Science course		4.00
Credits		13.00
Total Credits		61.00