

ASSOCIATE OF ARTS IN COMPUTER SCIENCE

The Associate of Arts in Computer Science degree will provide the foundational requirements to students who wish to transfer to a four-year institution and pursue a bachelor's degree in Computer Science. It is designed to fulfill the Michigan Transfer Agreement (MTA) requirements while providing flexibility in preparing students for transfer. In addition to general education and mathematics, students will receive appropriate preparation in computer programming algorithms, data structures, fundamental syntax of an object-oriented language, data types, control structures, file I/O, classes, objects, methods, and arrays. 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:		
COM 150 may be applied to Humanities requirements if not being used for Communications requirements		
ART-100	ART APPRECIATION ¹	
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 ¹	
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		12.00
Select two to three courses from the following:		
MATH-151	COLLEGE ALGEBRA	
MATH-161	CALCULUS I & ANALYTIC GEOMETRY	
MATH-162	CALCULUS II & ANALYTIC GEOM	
MATH-201	INTRO TO STATISTICS	
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	
CHEM-211	ORGANIC CHEMISTRY II	
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:		
PHIL 210 Ethics may be applied for Social Science requirement if not using for Humanities requirement		
ECON-203	PRIN OF ECONOMICS-MICRO ¹	
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	
Required Courses		15.00
15 credit hours		
CIS-121	COMPUTER SCIENCE I ¹	
CIS-122	COMPUTER SCIENCE II ¹	
CIS-132	PROGRAMMING IN JAVA ¹	
CIS-221	DATA STRUCTURES ¹	
Elective Courses		6.00
Select elective credit hours as needed to reach 60 total credits		
CIS-101 is recommended as an elective		
Total Credits		60.00

1

Course has prerequisite(s).

Tuition is calculated on contact hours.

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.

Current/Updated: 04/09/2020

Suggested Schedule

Course	Title	Credits
Fall 1		
CIS-121	COMPUTER SCIENCE I	4.00
ENG-121	ENGLISH COMPOSITION I	3.00
MATH-151	COLLEGE ALGEBRA	4.00
MTA Social Science Course (4 credits)		4.00
Credits		15.00
Winter 1		
CIS-122	COMPUTER SCIENCE II	4.00
COM-150 or ENG-122	PUBLIC SPEAKING or ENGLISH COMPOSITION II	3.00
MATH-161	CALCULUS I & ANALYTIC GEOMETRY	4.00
MTA Humanities course (4 credits)		4.00
Credits		15.00
Fall 2		
CIS-221	DATA STRUCTURES	3.00
MATH-201	INTRO TO STATISTICS	4.00
MTA Humanities course		4.00
MTA Natural Science w/ lab		4.00
Credits		15.00
Winter 2		
CIS-132	PROGRAMMING IN JAVA	4.00
MTA Humanities course (4 credits)		4.00
MTA Natural Science course		3.00
MTA Social Science course		4.00
Credits		15.00
Total Credits		60.00