

# COMPUTER INFORMATION SYSTEMS, AS

The Associate of Science in Computer Information Systems (CIS) degree prepares students for various roles in the Information Technology (IT) industry including computer networking, repair and helpdesk. This degree program includes Michigan Transfer Agreement courses and certificate options that prepare students for further education and cover the objectives for several industry certifications including A+, Network +, Linux+, Security+, Cisco Certified Network Administrator, Microsoft Certified IT Professional and Microsoft Office Specialist.

## Requirements

Code	Title	Credits
<b>English Composition</b>		<b>3.00</b>
ENG-121	ENGLISH COMPOSITION I <sup>1</sup>	
<b>English Composition and Communications</b>		<b>3.00</b>
Complete one:		
COM-110	INTERPERSONAL COMMUNICATIONS <sup>2</sup>	
COM-150	PUBLIC SPEAKING <sup>1, 2</sup>	
ENG-122	ENGLISH COMPOSITION II <sup>1</sup>	
<b>Humanities or Fine Arts</b>		<b>6.00</b>
Complete two courses from two different prefixes from the Humanities or Fine Arts MTA Course listing: <sup>4</sup>		
<b>Mathematics</b>		<b>4.00</b>
Complete one:		
MATH-151	COLLEGE ALGEBRA <sup>1</sup>	
MATH-161	CALCULUS I & ANALYTIC GEOMETRY <sup>1</sup>	
MATH-201	INTRO TO STATISTICS <sup>1</sup>	
<b>Natural Sciences</b>		<b>7.00</b>
Complete two courses from two different prefixes from the Natural Science MTA course listing - one must have a lab; <sup>4</sup>		
<b>Social Sciences</b>		<b>6.00</b>
Complete two courses from two different prefixes from the Social Science MTA Course listing: <sup>4</sup>		
<b>Elective</b>		<b>1.00</b>
Complete elective credits as needed to reach a total of 60 credits		
<b>Degree Requirements</b>		<b>30.00-31.00</b>
Complete one:		
Computer Support Technician Certificate (31 Credits)		
Network Technician Certificate (30 Credits)		
<b>Total Credits</b>		<b>60.00-61.00</b>

<sup>1</sup> Course has prerequisite(s)

<sup>2</sup> COM-110 or COM-150 may be applied to Humanities or Fine Arts requirement if not being used to fulfill Communications requirement.

<sup>3</sup> PHIL-210 may be applied to Social Sciences requirement, if not being used to fulfill Humanities or Fine Arts requirement.

<sup>4</sup> Michigan Transfer Agreement (MTA) Course listing (<https://catalog.glenoaks.edu/earning-your-degree/student-learning-outcomes-MTA/>)

Minimum Hours Required 60-62 (CST) or 62 (NTC) credits

## Computer Support Technician Certificate

Code	Title	Credits
<b>Required Coursework</b>		<b>29.00</b>
CIS-101	INTRO TO COMPUTERS & SOFTWARE	
CIS-112	CISCO I <sup>1</sup>	
CIS-121	COMPUTER SCIENCE I <sup>1</sup>	
CIS-220	COMPUTER TECHNICIAN ESSENTIALS <sup>1</sup>	
CIS-224	COMPUTER REPAIR ESSENTIALS <sup>1</sup>	
CIS-240	INTRO TO NETWORKING <sup>1</sup>	
CIS-241	INSTALL & CONFIGURE A WINDOWS NETWORK <sup>1</sup>	
CIS-245	NETWORK SECURITY <sup>1</sup>	
CIS-270	PC OPERATING SYSTEMS <sup>1</sup>	
<b>Electives</b>		<b>6.00</b>
Complete two courses from the following:		
CIS-113	CISCO II <sup>1</sup>	
CIS-151	ETHICAL HACKING I <sup>1</sup>	
CIS-172	LINUX OPERATING SYSTEMS <sup>1</sup>	
CIS-243	ADMINISTRATING A WINDOWS SERVER <sup>1</sup>	
CIS-272	LINUX OPERATING SYSTEM ADMINISTRATION <sup>1</sup>	
<b>Total Credits</b>		<b>35.00</b>

<sup>1</sup> Course has prerequisite(s)

Tuition is calculated by contact hours per semester.

**Note:** No courses below 100 level will be applied to this certificate.

Current/Updated: 07/23/2019

## Network Administration Technician Certificate

Code	Title	Credits
<b>Required Coursework</b>		<b>27.00</b>
CIS-112	CISCO I <sup>1</sup>	
CIS-113	CISCO II <sup>1</sup>	
CIS-114	CISCO III <sup>1</sup>	
CIS-165	HYBRID SERVER CORE	
CIS-240	INTRO TO NETWORKING <sup>1</sup>	
CIS-244	ADVANCED MANAGEMENT OF A WINDOWS, NETWORK <sup>1</sup>	
CIS-245	NETWORK SECURITY <sup>1</sup>	
CIS-265	HYBRID SERVER ADVANCE	
<b>Electives</b>		<b>3.00</b>
Complete one course from the following:		
CIS-151	ETHICAL HACKING I (cannot be applied to AACIS degree, Option 5) <sup>1</sup>	
CIS-162	INTRODUCTION TO COMPUTER FORENSICS <sup>1</sup>	
CIS-241	INSTALL & CONFIGURE A WINDOWS NETWORK	
CIS-243	ADMINISTRATING A WINDOWS SERVER	
CIS-270	PC OPERATING SYSTEMS <sup>1</sup>	
CIS-272	LINUX OPERATING SYSTEM ADMINISTRATION <sup>1</sup>	
<b>Total Credits</b>		<b>30.00</b>

<sup>1</sup> Course has prerequisite(s)

**Note:** No course below 100 level will be applied to this certificate.

Tuition is calculated by contact hours per semester.

Current/Updated: 08/05/2019

Tuition is calculated by contact hours per semester.

Current/Updated: 08/12/2019

### Suggested Schedule

## Computer Support Technician

Course	Title	Credits
<b>Fall 1</b>		
CIS-101	INTRO TO COMPUTERS & SOFTWARE	4.00
CIS-121	COMPUTER SCIENCE I	4.00
CIS-220	COMPUTER TECHNICIAN ESSENTIALS	3.00
CIS-240	INTRO TO NETWORKING	3.00
ENG-121	ENGLISH COMPOSITION I	3.00
HUMANITIES - MTA		3.00
<b>Credits</b>		<b>20.00</b>
<b>Winter 1</b>		
CIS-112	CISCO I	3.00
CIS-224	COMPUTER REPAIR ESSENTIALS	3.00
CIS-241	INSTALL & CONFIGURE A WINDOWS NETWORK	3.00
COMMUNICATIONS - MTA		3.00
MATHEMATICS - MTA		4.00
<b>Credits</b>		<b>16.00</b>
<b>Fall 2</b>		
CIS-245	NETWORK SECURITY	3.00
CIS ELECTIVE - CIS-113,CIS-151, CIS-172, CIS-243 OR CIS-272		3.00
HUMANITIES - MTA		3.00
SOCIAL SCIENCE - MTA		3.00
NATURAL SCIENCE - MTA		4.00
<b>Credits</b>		<b>16.00</b>
<b>Winter 2</b>		
CIS-172	LINUX OPERATING SYSTEMS	3.00
CIS-270	PC OPERATING SYSTEMS	3.00
CIS ELECTIVE - CIS-113, CIS-151, CIS-172, CIS-243 OR CIS-272		3.00
NATURAL SCIENCE - MTA		3.00
SOCIAL SCIENCE - MTA		3.00
<b>Credits</b>		<b>15.00</b>
<b>Total Credits</b>		<b>67.00</b>

## Network Administration Technician

Course	Title	Credits
<b>Fall 1</b>		
CIS-112	CISCO I	3.00
CIS-172	LINUX OPERATING SYSTEMS	3.00
CIS-240	INTRO TO NETWORKING	3.00
ENG-121	ENGLISH COMPOSITION I	3.00
HUMANITIES - MTA		3.00
<b>Credits</b>		<b>15.00</b>
<b>Winter 1</b>		
CIS-113	CISCO II	3.00
CIS-241	INSTALL & CONFIGURE A WINDOWS NETWORK	3.00
CIS-245	NETWORK SECURITY	3.00
COMMUNICATIONS - MTA		3.00
MATHEMATICS - MTA		4.00
<b>Credits</b>		<b>16.00</b>
<b>Fall 2</b>		
CIS-114	CISCO III	3.00
CIS-243	ADMINISTRATING A WINDOWS SERVER	3.00

HUMANITIES - MTA	3.00	
NATURAL SCIENCE - MTA	4.00	
SOCIAL SCIENCE - MTA	3.00	
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Credits	16.00	
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Winter 2		
CIS-244	ADVANCED MANAGEMENT OF A WINDOWS,NETWORK	3.00
CIS ELECTIVE - CIS-151, CIS-162, CIS-270 OR CIS-272		3.00
NATURAL SCIENCE - MTA		3.00
SOCIAL SCIENCE - MTA		3.00
ELECTIVE		1.00
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Credits	13.00	
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Total Credits	60.00	