

ASSOCIATE OF APPLIED SCIENCE IN COMPUTER INFORMATION SYSTEMS

The Associates of Applied Science in Computer Information Systems (CIS) at Glen Oaks will prepare students for various roles in the Information Technology (IT) industry including computer networking, repair, and helpdesk. Glen Oaks offers both Associates in Applied Science and Certificate programs, and the programs cover the objectives for several industry certifications including: A+, Network+, Linux+, Security+, Cisco Certified Network Administrator, Microsoft Certified IT Professional and Microsoft Office Specialist.

Code	Title	Credits
Communications		6.00
Choose 2 courses from the following		
COM-110	INTERPERSONAL COMMUNICATIONS	
COM-150	PUBLIC SPEAKING ¹	
ENG-121	ENGLISH COMPOSITION I ¹	
ENG-122	ENGLISH COMPOSITION II ¹	
Humanities/Social Science		3.00
Choose a minimum of 3 credit hours from the following courses:		
Any ANTH course		
Any ART course		
ENG 126 or higher ¹		
Any ECON course		
Any HIST course		
Any HUM course		
Any LNG course		
Any MUS course		
Any PHIL course		
Any PSI course		
Any PSY course		
Any REL course		
Any SOC course		
Mathematics		4.00
Choose 1 math course from the following		
MATH-151	COLLEGE ALGEBRA (Choose 1 math course from the following)	
MATH-161	CALCULUS I & ANALYTIC GEOMETRY ¹	
MATH-201	INTRO TO STATISTICS	
Natural Science		3.00
Choose a minimum of 3 credit hours from the following courses:		
BIO 101 or higher ¹		
CHEM 130 or higher ¹		
Any GEOG course		
Any GEOL course		
Any PHYS course		
Required Certificates		44.00
Must choose one of five options below		
Total Credits		60.00

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Course has prerequisite(s)

NOTE: No courses under the 100 level will be accepted towards this degree.

Certificate Options

Must choose one of the following options:

Option 1 - Computer Support Technician Certificate (<https://catalog.glenoaks.edu/programs/computer-science-information-technology/computer-support-technician-certificate/>) + Cybersecurity Certificate of Achievement (<https://catalog.glenoaks.edu/programs/computer-science-information-technology/cybersecurity-certificate-of-achievement/>) + CIS-113 & CIS-243

Option 2 - Cybersecurity Certificate (<https://catalog.glenoaks.edu/programs/computer-science-information-technology/cybersecurity-certificate/>) + Computer Support Certificate of Achievement (<https://catalog.glenoaks.edu/programs/computer-science-information-technology/computer-support-technician-certificate-of-achievement/>)

Option 3 - Cybersecurity Certificate (<https://catalog.glenoaks.edu/programs/computer-science-information-technology/cybersecurity-certificate/>) + Network Management Certificate of Achievement (<https://catalog.glenoaks.edu/programs/computer-science-information-technology/network-management-certificate-of-achievement/>) + CIS-243 and 3 CIS elective credits

Option 4 - Network Administration Technician Certificate (<https://catalog.glenoaks.edu/programs/computer-science-information-technology/network-administration-technician-certificate/>) + Computer Support Certificate of Achievement (<https://catalog.glenoaks.edu/programs/computer-science-information-technology/computer-support-technician-certificate-of-achievement/>) + CIS elective credit hours to reach 60 credits

Option 5 - Network Administration Technician Certificate (<https://catalog.glenoaks.edu/programs/computer-science-information-technology/network-administration-technician-certificate/>) + Cybersecurity Certificate of Achievement (<https://catalog.glenoaks.edu/programs/computer-science-information-technology/cybersecurity-certificate-of-achievement/>) + 8-10 CIS elective credit hours to reach 60

Tuition is calculated on contact hours

Current/Updated: Fall 2021

Option 1

Course	Title	Credits
Fall 1		
Required Coursework		15.00
CIS-121	COMPUTER SCIENCE I	
CIS-151	ETHICAL HACKING I	
CIS-220	COMPUTER TECHNICIAN ESSENTIALS	
CIS-240	INTRO TO NETWORKING	
COMMUNICATIONS COURSE		
		Credits
		15.00
Winter 1		
Required Coursework		16.00
CIS-112	CISCO I	
CIS-161	CYBERSECURITY OPERATIONS	
CIS-224	COMPUTER REPAIR ESSENTIALS	
CIS-241	INSTALL & CONFIGURE A WINDOWS NETWORK	

MATH 151 or MATH 161 or MATH 201		
Credits		16.00
Fall 2		
Required Coursework		16.00
CIS-113	CISCO II	
CIS-172	LINUX OPERATING SYSTEMS	
CIS-245	NETWORK SECURITY	
NATURAL SCIENCE COURSE		
COMMUNICATIONS COURSE		
Credits		16.00
Winter 2		
Required Coursework		13.00
CIS-243	ADMINISTRATING A WINDOWS SERVER	
CIS-270	PC OPERATING SYSTEMS	
HUMANITIES/SOCIAL SCIENCE COURSE		
CIS Elective		
Credits		13.00
Total Credits		60.00

Option 2

Course	Title	Credits
Fall 1		
Required Coursework		12.00
CIS-112	CISCO I	
CIS-151	ETHICAL HACKING I	
CIS-172 or CIS-121	LINUX OPERATING SYSTEMS or COMPUTER SCIENCE I	
COMMUNICATIONS COURSE		
Credits		12.00
Winter 1		
Required Coursework		16.00
CIS-113	CISCO II (Required Coursework)	
CIS-152	ETHICAL HACKING II	
CIS-161	CYBERSECURITY OPERATIONS	
CIS-245	NETWORK SECURITY	
MATH-151 or MATH-161 or MATH-201		
Credits		16.00
Fall 2		
Required Coursework		16.00
CIS-114	CISCO III	
CIS-220	COMPUTER TECHNICIAN ESSENTIALS	
CIS-240	INTRO TO NETWORKING	
NATURAL SCIENCE COURSE (4 credits)		
COMMUNICATIONS COURSE		
Credits		16.00
Winter 2		
Required Coursework		16.00
CIS-224	COMPUTER REPAIR ESSENTIALS	
CIS-270	PC OPERATING SYSTEMS	
CIS-272	LINUX OPERATING SYSTEM ADMINISTRATION	
HUMANITIES/SOCIAL SCIENCE COURSE		
CIS ELECTIVE		
Credits		16.00
Total Credits		60.00

Option 3

Course	Title	Credits
Fall 1		
Required Coursework		15.00
CIS-112	CISCO I	

CIS-151	ETHICAL HACKING I	
CIS-172	LINUX OPERATING SYSTEMS	
CIS-240	INTRO TO NETWORKING	
COMMUNICATIONS COURSE		
Credits		15.00
Winter 1		
Required Coursework		16.00
CIS-113	CISCO II	
CIS-152	ETHICAL HACKING II	
CIS-161	CYBERSECURITY OPERATIONS	
CIS-245	NETWORK SECURITY	
MATH-151 or MATH-161 or MATH-201		
Credits		16.00
Fall 2		
Required Coursework		15.00
CIS-114	CISCO III	
CIS-241	INSTALL & CONFIGURE A WINDOWS NETWORK	
CIS-243	ADMINISTRATING A WINDOWS SERVER	
NATURAL SCIENCE ELECTIVE		
COMMUNICATIONS COURSE		
Credits		15.00
Winter 2		
Required Coursework		15.00
CIS-244	ADVANCED MANAGEMENT OF A WINDOWS, NETWORK	
CIS-270	PC OPERATING SYSTEMS	
CIS-272	LINUX OPERATING SYSTEM ADMINISTRATION	
HUMANITIES/SOCIAL SCIENCE COURSE		
CIS ELECTIVE		
Credits		15.00
Total Credits		61.00

Option 4

Course	Title	Credits
Fall 1		
Required Coursework		16.00
CIS-101	INTRO TO COMPUTERS & SOFTWARE	
CIS-112	CISCO I	
CIS-172	LINUX OPERATING SYSTEMS	
CIS-240	INTRO TO NETWORKING	
COMMUNICATIONS COURSE		
Credits		16.00
Winter 1		
Required Coursework		17.00
CIS-113	CISCO II	
CIS-121	COMPUTER SCIENCE I	
CIS-241	INSTALL & CONFIGURE A WINDOWS NETWORK	
CIS-245	NETWORK SECURITY	
MATH-151 OR MATH-161 OR MATH-201		
Credits		17.00
Fall 2		
Required Coursework		15.00
CIS-114	CISCO III	
CIS-220	COMPUTER TECHNICIAN ESSENTIALS	
CIS-243	ADMINISTRATING A WINDOWS SERVER	
NATURAL SCIENCE COURSE		
COMMUNICATIONS COURSE		
Credits		15.00
Winter 2		
Required Coursework		15.00
CIS-224	COMPUTER REPAIR ESSENTIALS	
CIS-244	ADVANCED MANAGEMENT OF A WINDOWS, NETWORK	

CIS-270	PC OPERATING SYSTEMS	
HUMANITIES/SOCIAL SCIENCE ELECTIVE		
CIS ELECTIVE		
	Credits	15.00
	Total Credits	63.00

Option 5

Course	Title	Credits
Fall 1		
Required Coursework		15.00
CIS-112	CISCO I	
CIS-151	ETHICAL HACKING I	
CIS-172	LINUX OPERATING SYSTEMS	
CIS-240	INTRO TO NETWORKING	
COMMUNICATIONS COURSE		
	Credits	15.00
Winter 1		
Required Coursework		16.00
CIS-113	CISCO II	
CIS-152	ETHICAL HACKING II	
CIS-241	INSTALL & CONFIGURE A WINDOWS NETWORK	
CIS-245	NETWORK SECURITY	
MATH-151 OR MATH-161 OR MATH-201		
	Credits	16.00
Fall 2		
Required Coursework		15.00
CIS-114	CISCO III	
CIS-161	CYBERSECURITY OPERATIONS	
CIS-243	ADMINISTRATING A WINDOWS SERVER	
NATURAL SCIENCE COURSE		
COMMUNICATIONS COURSE		
	Credits	15.00
Winter 2		
Required Coursework		16.00
CIS-162	INTRODUCTION TO COMPUTER FORENSICS	
CIS-244	ADVANCED MANAGEMENT OF A WINDOWS,NETWORK	
HUMANITIES/SOCIAL SCIENCE COURSE		
CIS ELECTIVE		
CIS-270	PC OPERATING SYSTEMS	
	Credits	16.00
	Total Credits	62.00