



# DAVIS COLLEGE

4747 Monroe Street  
Toledo, OH 43623

419.473.2700  
800.477.7021

## Computer Networking Associate Degree

This program teaches students the necessary technical skills to prepare them for a position as a network engineer and the administrative skills to become a network administrator. This program will also prepare the student to take the Microsoft Certified Professional (MPC) certification examination.

Upon completion of the Associate of Applied Business degree with a major in Computer Networking, the Davis College graduate will be prepared to:

- Use operating system commands to perform basic system operations such as formatting disks, operating systems installations, file and printer sharing, and maintaining an operating system.
- Demonstrate the ability to assemble, test, troubleshoot, and repair networks and personal computers.
- Understand terminology of networking concepts. This includes physical media, architectures, topologies, protocols, local area networks, wide area networks, and security.
- Install, configure, and troubleshoot an active directory.
- Install, test, and troubleshoot networking software which includes using security, addressing, and administration tools.
- Install, configure, and troubleshoot a network infrastructure using routers and switches.
- Utilize e-mail, websites, and news services for troubleshooting purposes.
- Use oral and written communication skills to interact effectively in the work environment.
- Apply the principles and intentions of the General Education and the Business Core purposes.

## Mid-Program Assessment

A student enrolled in the Computer Networking Associate Degree program will participate in a Mid-Program Assessment upon completion of approximately 45 hours, including CIS115, CIS141, and CIS142. Completion of the Mid-Program Assessment is required before a student can be scheduled into advanced courses.

This skills assessment is intended to help the Department faculty evaluate whether a student has learned and developed the basic, necessary skills needed to successfully complete the advanced courses and ultimately obtain employment. The assessment will consist of testing each student's basic knowledge of his/her major area, which includes having the ability to navigate through different operating systems and define computer terminologies. The Mid-Program Assessment will be a combination of an interview and computer test, which will be conducted once per quarter by Department faculty.

## Computer Networking Associate Degree Program Outline

Course No.	Course Title	Cr. Hrs.
CIS115*	Survey of Operating Systems	3
CIS132	Internet Systems Management	3
CIS141*	Computer Concepts and Diagnostics	3
CIS142*	Networking Concepts and Diagnostics	3
CIS153	Network Software: Windows 2008 Server	3
CIS155	Open Source Software3	3
CIS158	Administering MS Windows 7	2
CIS210	Network Infrastructure and Protocols	3
CIS215	Directory Services Design and Implementation	3
CIS228	Network Security and Administration	2
CIS240	Routing Concepts	3
CIS251	IT Project/Certification	3
CAS/CIS---	Technical Electives	6
ACC101	Accounting Principles I	4
MGT102	Introduction to Business	5
MGT---	Management Elective (MGT211 or MGT213)	4
OAM223	Business Communications	4
COM121	Composition I	5
COM122	Composition II	4
COM---	Communication Elective (COM201, COM202)	4
HUM---	Humanities Elective	3
MTH102	Introductory Algebra I	5
SCI---	Science Elective	3
SSC201	Economics	4
SSC---	Social Science Elective	4
IDS110*	Forum on Technology and Resources	5
<b>Total Program Credit Hours</b>		<b>94</b>

\* Required as part of 45 hours completed before Mid-Program Assessment